

ADVANCED CONNECTION SYSTEMS

JST CATALOG VOL.120e



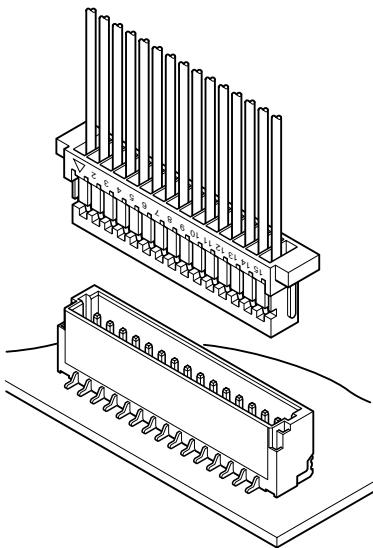
<URL> <http://www.jst-mfg.com>

JST
The Quality Connection



SH CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors

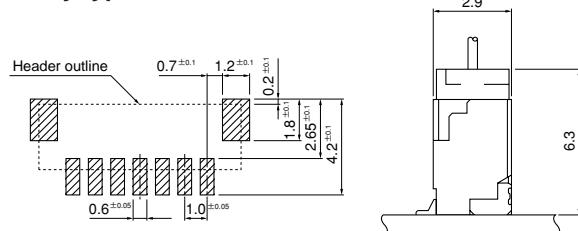


The world's first 1.0mm pitch crimp style connector.

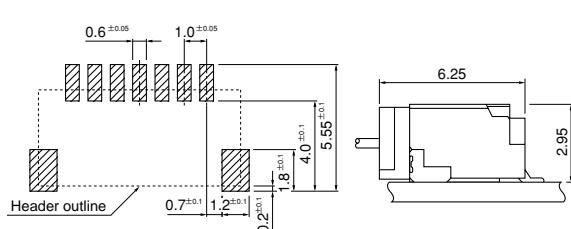
- Compact, low profile design
- Compatible with the SR insulation displacement connectors
- Housing lances

PC board layout (viewed from component side) and Assembly layout

Top entry type



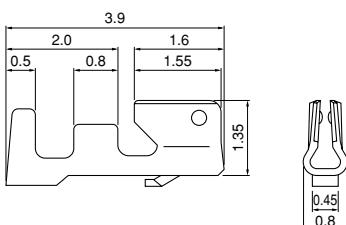
Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSH-003T-P0.2-H	0.032 ~ 0.08	32~28	0.4~0.8	23,000

Material and Finish			
Phosphor bronze, tin-plated (reflow treatment)			

RoHS compliance

Note: Contact JST for gold-plated products.

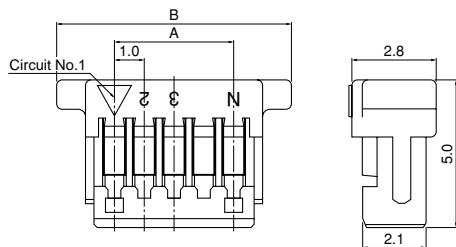
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003T-P0.2-H	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

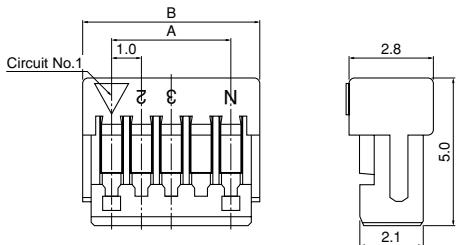
Contact JST for applicable wires in case that it is not usable due to wire size.

Housing

With protrusions



Without protrusions



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	With protrusions	Without protrusions	A	B		
				With protrusions	Without protrusions	
2	SHR-02V-S-B	SHR-02V-S	1.0	5.0	3.0	2,000
3	SHR-03V-S-B	SHR-03V-S	2.0	6.0	4.0	2,000
4	SHR-04V-S-B	SHR-04V-S	3.0	7.0	5.0	2,000
5	SHR-05V-S-B	SHR-05V-S	4.0	8.0	6.0	2,000
6	SHR-06V-S-B	SHR-06V-S	5.0	9.0	7.0	2,000
7	SHR-07V-S-B	SHR-07V-S	6.0	10.0	8.0	2,000
8	SHR-08V-S-B	SHR-08V-S	7.0	11.0	9.0	2,000
9	SHR-09V-S-B	SHR-09V-S	8.0	12.0	10.0	2,000
10	SHR-10V-S-B	SHR-10V-S	9.0	13.0	11.0	2,000
11	SHR-11V-S-B	SHR-11V-S	10.0	14.0	12.0	2,000
12	SHR-12V-S-B	SHR-12V-S	11.0	15.0	13.0	2,000
13	SHR-13V-S-B	SHR-13V-S	12.0	16.0	14.0	2,000
14	SHR-14V-S-B	SHR-14V-S	13.0	17.0	15.0	2,000
15	SHR-15V-S-B	SHR-15V-S	14.0	18.0	16.0	2,000
20	SHR-20V-S-B	—	19.0	23.0	21.0	1,000

Material

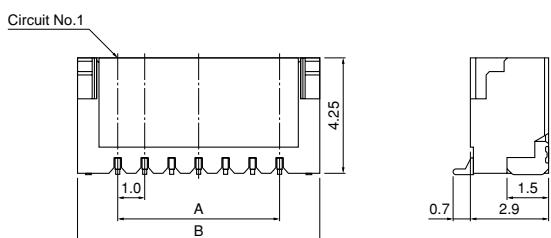
PBT, UL94V-0, natural (white)

RoHS compliance

Shrouded header

The shrouded headers are interchangeable with those of the SR insulation displacement connectors.

Top entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	BM02B-SRSS-TB	SM02B-SRSS-TB	1.0	4.0	1,500	3,000
3	BM03B-SRSS-TB	SM03B-SRSS-TB	2.0	5.0	1,500	3,000
4	BM04B-SRSS-TB	SM04B-SRSS-TB	3.0	6.0	1,500	3,000
5	BM05B-SRSS-TB	SM05B-SRSS-TB	4.0	7.0	1,500	3,000
6	BM06B-SRSS-TB	SM06B-SRSS-TB	5.0	8.0	1,500	3,000
7	BM07B-SRSS-TB	SM07B-SRSS-TB	6.0	9.0	1,500	3,000
8	BM08B-SRSS-TB	SM08B-SRSS-TB	7.0	10.0	1,500	3,000
9	BM09B-SRSS-TB	SM09B-SRSS-TB	8.0	11.0	1,500	3,000
10	BM10B-SRSS-TB	SM10B-SRSS-TB	9.0	12.0	1,500	3,000
11	BM11B-SRSS-TB	SM11B-SRSS-TB	10.0	13.0	1,500	3,000
12	BM12B-SRSS-TB	SM12B-SRSS-TB	11.0	14.0	1,500	3,000
13	BM13B-SRSS-TB	SM13B-SRSS-TB	12.0	15.0	1,500	3,000
14	BM14B-SRSS-TB	SM14B-SRSS-TB	13.0	16.0	1,500	3,000
15	BM15B-SRSS-TB	SM15B-SRSS-TB	14.0	17.0	1,500	3,000
20	—	SM20B-SRSS-TB	19.0	22.0	—	3,000

Material and Finish

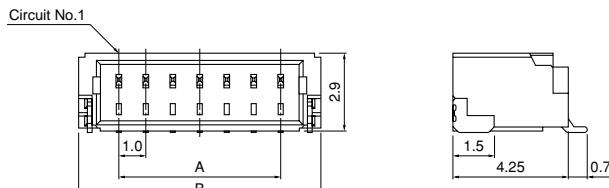
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.

- Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with gold-plated pins.
3. Contact JST for the top entry type headers with suction cap.

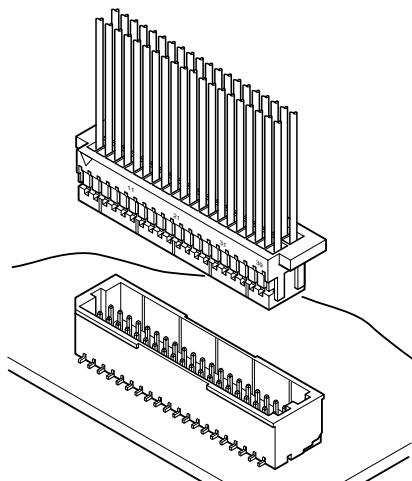
Side entry type





SHD CONNECTOR

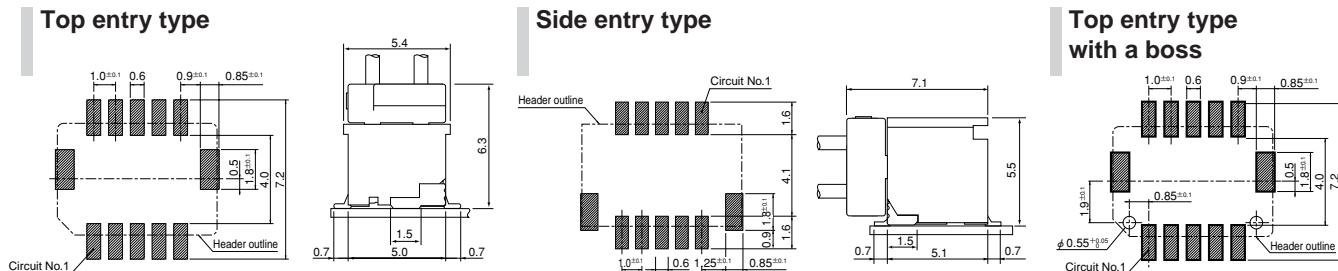
1.0mm pitch/Disconnectable Crimp style connectors



The SHD connector is compact with a mounting height of 6.3mm for top entry type and 5.5mm for side entry type, and a width of 5.0mm for top entry type and 5.1mm for side entry type.

- Compact, low profile design
- Anti-misinsertion feature
- Receptacles with protrusions
- Header designed for vacuum pick and place robotics

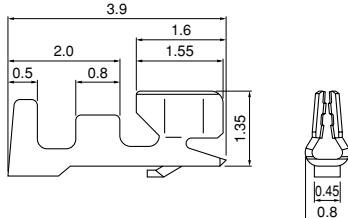
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSH-003GA-P0.2	0.032 ~ 0.08	32~28	0.4~0.8	23,000

Material and Finish

Phosphor bronze, nickel-undercoated, Mating part; gold-plated

RoHS compliance

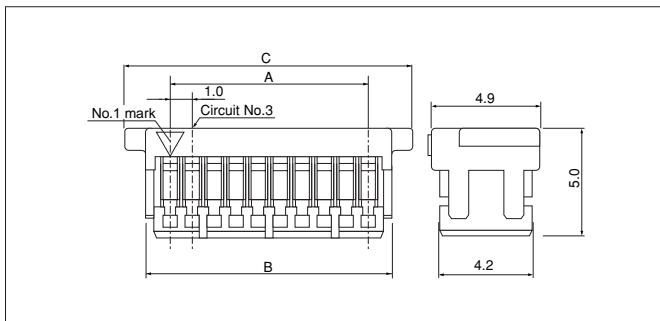
Note: Contact JST for tin-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003GA-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
20	SHDR-20V-S-B	9.0	11.2	13.0	4,000
30	SHDR-30V-S-B	14.0	16.2	18.0	4,000
40	SHDR-40V-S-B	19.0	21.2	23.0	2,000
50	SHDR-50V-S-B	24.0	26.2	28.0	2,000

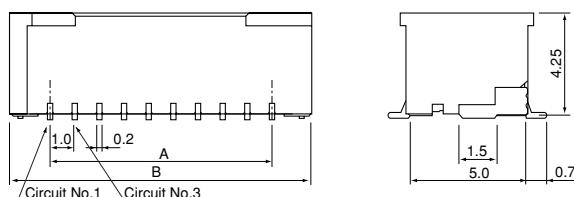
Material

PBT, UL94V-0, natural (white)

RoHS compliance

Shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	BM20B-SRDS-G-TF	9.0	12.3	1,500
30	BM30B-SRDS-G-TF	14.0	17.3	1,500
40	BM40B-SRDS-G-TF	19.0	22.3	1,500
50	BM50B-SRDS-G-TF	24.0	27.3	1,500

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	SM20B-SRDS-G-TF	9.0	13.1	1,250
30	SM30B-SRDS-G-TF	14.0	18.1	1,250
40	SM40B-SRDS-G-TF	19.0	23.1	1,250
50	SM50B-SRDS-G-TF	24.0	28.1	1,250

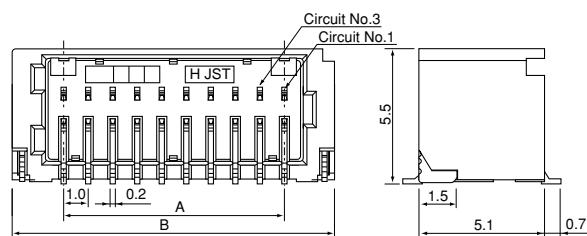
Material and Finish

Header contact: Phosphor bronze, nickel-undercoated, gold-plated
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with tin-plated pins.
3. Contact JST for the top entry type headers with suction cap.

Side entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	BM20B-SRDS-A-G-TF	9.0	12.3	1,250
30	BM30B-SRDS-A-G-TF	14.0	17.3	1,250
40	BM40B-SRDS-A-G-TF	19.0	22.3	1,250
50	BM50B-SRDS-A-G-TF	24.0	27.3	1,250

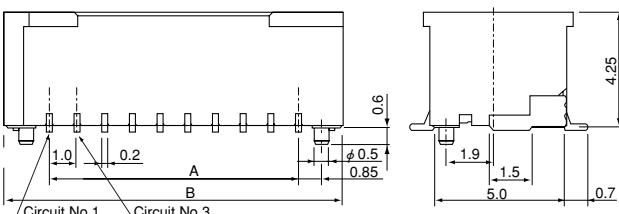
Material and Finish

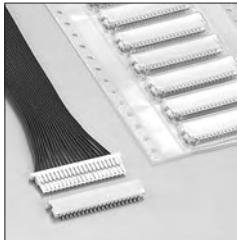
Header contact: Phosphor bronze, nickel-undercoated, gold-plated
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with tin-plated pins.

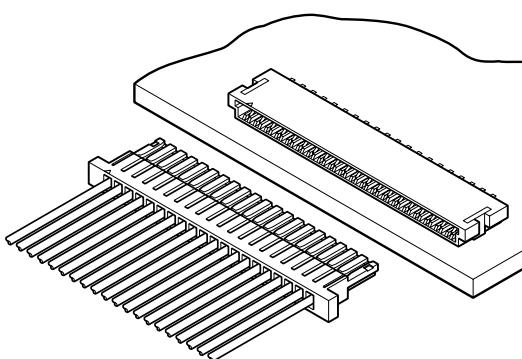
Top entry type with a boss





SHL CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



- **Thin design**
- **Low insertion force**
- **Deformation preventive design**

Specifications

- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #32 to #28
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

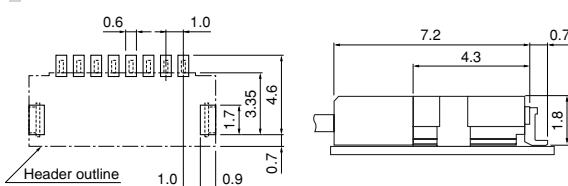
Standards

■ Recognized E60389

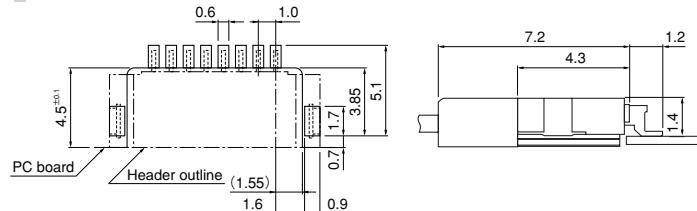
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Normal type



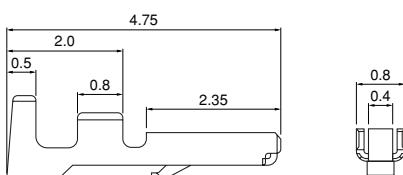
Offset type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSH-003T-P0.2	0.032 ~ 0.08	32~28	0.4~0.8	30,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

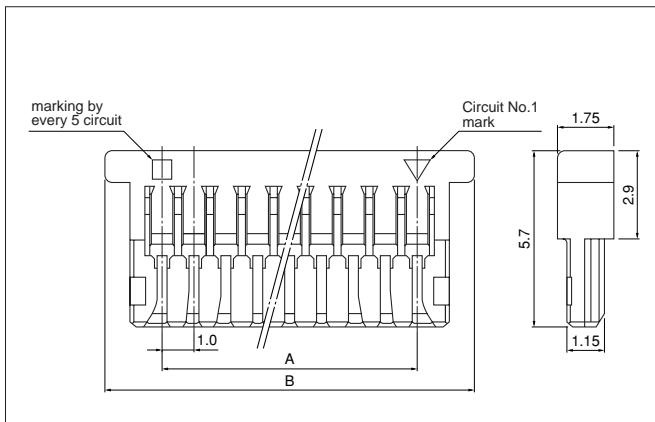
Note: Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003T-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		With protrusions	A	
2	SHLP-02V-S-B		1.0	4.6
6	SHLP-06V-S-B		5.0	8.6
7	SHLP-07V-S-B		6.0	9.6
14	SHLP-14V-S-B		13.0	16.6
16	SHLP-16V-S-B		15.0	18.6
20	SHLP-20V-S-B		19.0	22.6
22	SHLP-22V-S-B		21.0	24.6
26	SHLP-26V-S-B		25.0	28.6
30	SHLP-30V-S-B		29.0	32.6

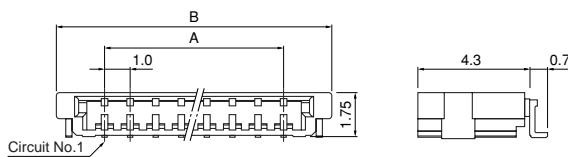
Material

PBT, UL94V-0, natural (white)

RoHS compliance

Shrouded header

Normal type



Normal type

Circuits	Model No.	Insulation O.D. (mm)		Q'ty / reel
		A	B	
2	SM02B-SHLS-TF	1.0	4.8	4,500
6	SM06B-SHLS-TF	5.0	8.8	4,500
7	SM07B-SHLS-TF	6.0	9.8	4,500
16	SM16B-SHLS-TF	15.0	18.8	4,500
20	SM20B-SHLS-TF	19.0	22.8	4,500
22	SM22B-SHLS-TF	21.0	24.8	4,500
26	SM26B-SHLS-TF	25.0	28.8	4,500
30	SM30B-SHLS-TF	29.0	32.8	4,500

Material and Finish

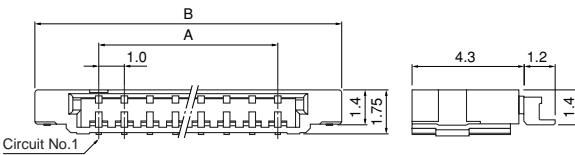
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.

Note: Contact JST for the headers with gold-plated pins.

Offset type



Offset type

Circuits	Model No.	Insulation O.D. (mm)		Q'ty / reel
		A	B	
14	SM14B-SHLS-1-TF	13.0	18.0	4,500
20	SM20B-SHLS-1-TF	19.0	24.0	4,500

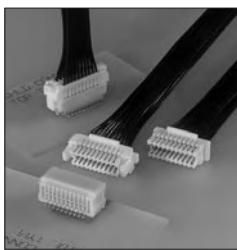
Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

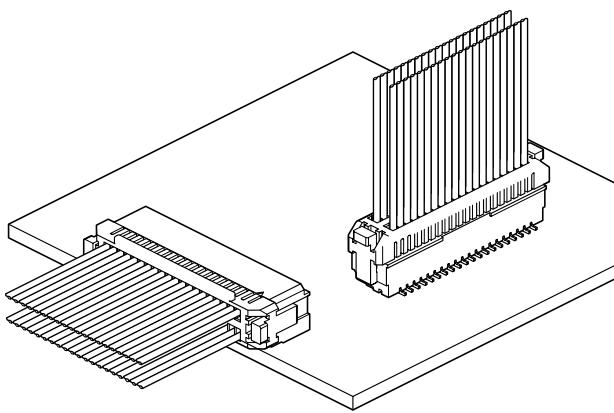
This product displays (LF)(SN) on a label.

Note: Contact JST for the headers with gold-plated pins.



SHLD CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



Developed for PDP, LCD or small electronics equipment.

This is a dual-row small crimp type connector with a secure locking system or without-designed for different applications. The PC board layout is compatible with that of existing SHD connector, which allows for replacement of the above existing connector.

- Secure housing lock structure (for locking type)
- Prevent deformation of contacts
- A contact lock structure
- Strong structure against external force

Specifications

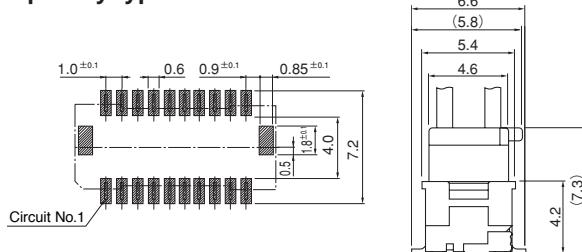
- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

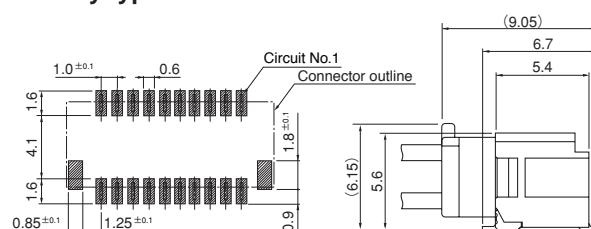
■ Recognized E60389

PC board layout (viewed from component side) and Assembly layout

Top entry type



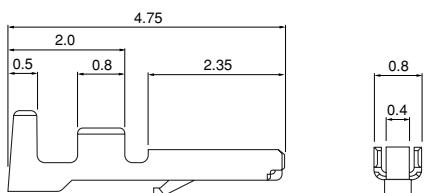
Side entry type



Note: 1. Tolerances are non-cumulative: ±0.1mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSH-003GA1-P0.2	0.032~0.08	32~28	0.4~0.8	30,000

Material and Finish

Phosphor bronze, nickel-undercoated, Mating part; gold-plated, Crimping part; gold-plated

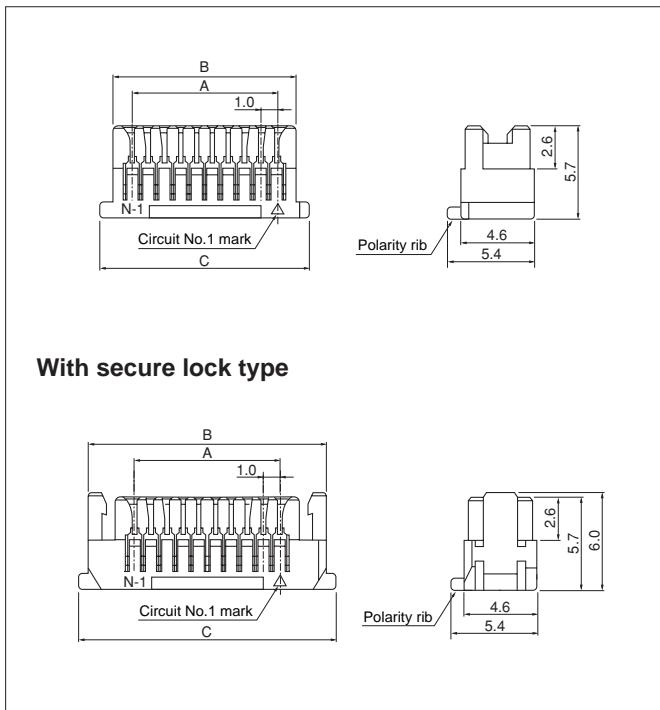
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003GA1-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
20	SHLDP-20V-S(B)	9.0	11.4	13.0	3,500
30	SHLDP-30V-S(B)	14.0	16.4	18.0	2,500
40	SHLDP-40V-S(B)	19.0	21.4	23.0	2,000
50	SHLDP-50V-S(B)	24.0	26.4	28.0	1,500

Material
PBT, UL94V-0, natural (white)

RoHS compliance

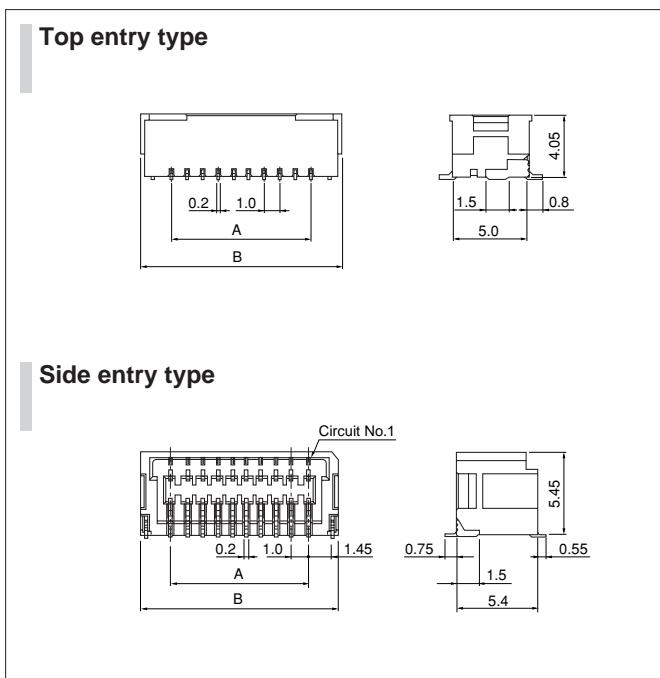
With secure lock type

Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
20	SHLDP-20V-S-1(B)	9.0	14.7	15.7	3,000
30	SHLDP-30V-S-1(B)	14.0	19.7	20.7	2,000
40	SHLDP-40V-S-1(B)	19.0	24.7	25.7	1,500
50	SHLDP-50V-S-1(B)	24.0	29.7	30.7	1,200

Material
PBT, UL94V-0, natural (white)

RoHS compliance

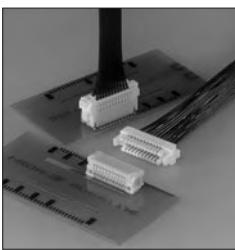
Shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
20	BM20B-SHlds-G-TFT	SM20B-SHlds-G-TF	9.0	13.0	1,000
30	BM30B-SHlds-G-TFT	SM30B-SHlds-G-TF	14.0	18.0	1,000
40	BM40B-SHlds-G-TFT	SM40B-SHlds-G-TF	19.0	23.0	1,000
50	BM50B-SHlds-G-TFT	SM50B-SHlds-G-TF	24.0	28.0	1,000

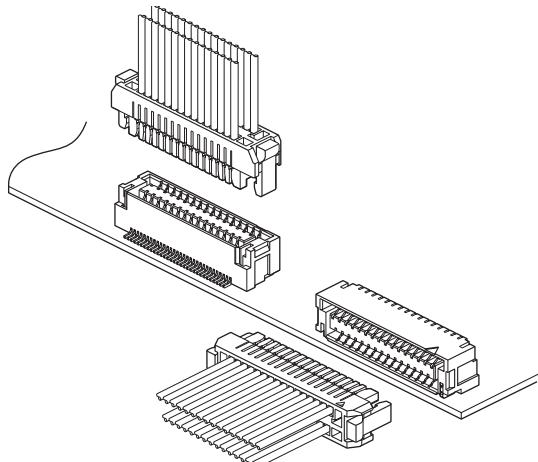
Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



SHLV CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors

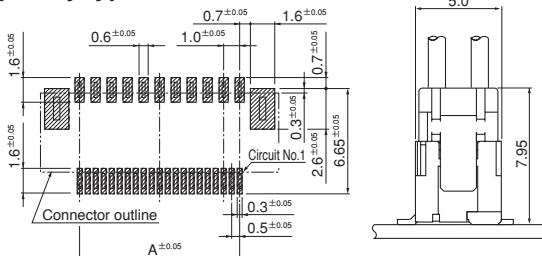


This is the wire to board connector corresponding to the high frequency transmission (LVDS:Low Voltage Differential Signaling) with a lot of adoption for PDP, LCD - TV and so on. This connector was developed to have excellent workability, strength and cost performance. This connector is used not only for LVDS, but also for multi - circuits connector (small and space saving type) in normal circuit.

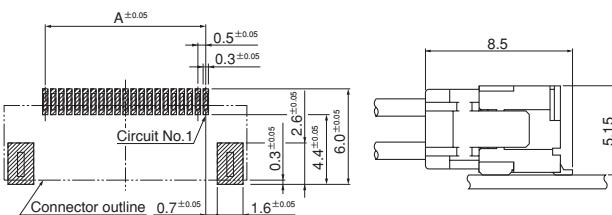
- Corresponding to LVDS (Low Voltage Differential Signaling)
- Secure lock
- Connector strength
- Contact lock structure

PC board layout (viewed from component side) and Assembly layout

Top entry type



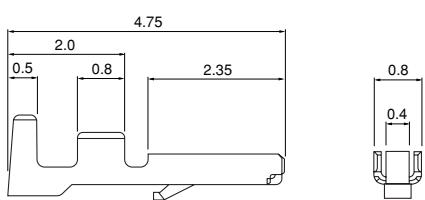
Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSHLL-003GA1-P0.2	0.032~0.08	32~28	0.4~0.8	30,000

Material and Finish

Phosphor bronze, nickel-undercoated, Mating part; gold-plated, Crimping part; gold-plated

RoHS compliance

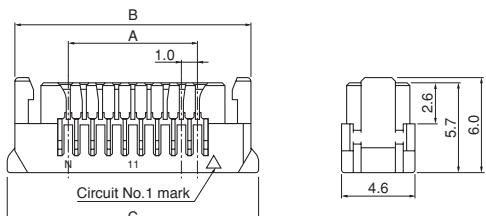
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SSHLL-003GA1-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

Housing

With secure lock



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
21	SHLVP-21V-S-1	10.0	16.7	17.7	3,000
31	SHLVP-31V-S-1	15.0	21.7	22.7	2,000

Material
PBT, UL94V-0, natural(white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

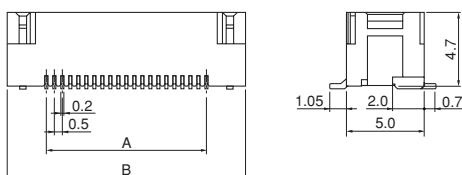
ex. SHLVP-21V-S-1

S...natural (white)

LE...light blue

Shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
21	BM21B-SHLVS-G-TBT	10.0	15.0	1,500
31	BM31B-SHLVS-G-TBT	15.0	20.0	1,500

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
21	SM21B-SHLVS-G-TB	10.0	15.0	2,000
31	SM31B-SHLVS-G-TB	15.0	20.0	2,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Wafer: Polyamide, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

<Top entry type>

ex. BM21B-SHLVS-G-TBT

S...natural (ivory)

LE...light blue

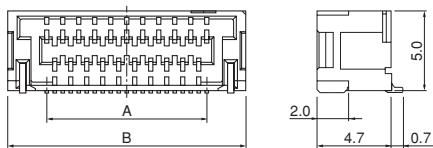
<Side entry type>

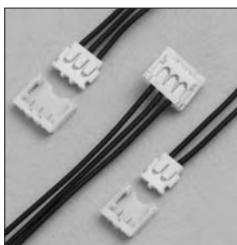
ex. SM21B-SHLVS-G-TB

S...natural (ivory)

LE...light blue

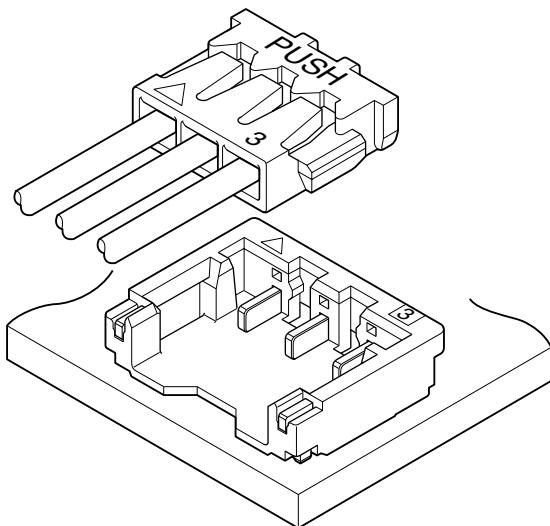
Side entry type





ACH CONNECTOR

1.2mm pitch/Disconnectable Crimp style connectors



This ACH connector is compact and low profile type, height: 1.4mm and width 4.3mm, 1.2mm pitch wire-to-board connector.

- Top entry but side feed type
- Connector for DC power supply
- Corresponding to sucking nozzle of pick and place machine

Specifications

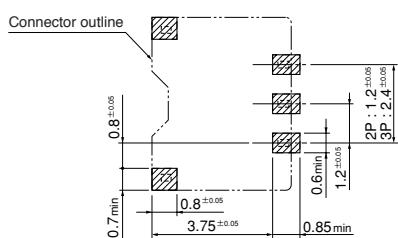
- Current rating: 2A/2, 3-circuit AC, DC (AWG #28)
1.5A/4-circuit AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30 to #28
Insulation O.D./0.5 to 0.63mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

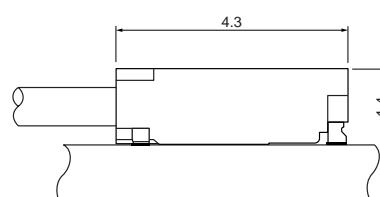
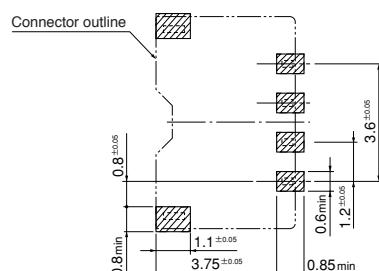
■ Recognized E60389

PC board layout (viewed from component side) and Assembly layout

<2, 3 circuits>



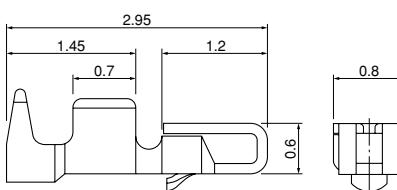
<4 circuits>



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SACH-003G-P0.2	0.05~0.08	30~28	0.5~0.63	30,000

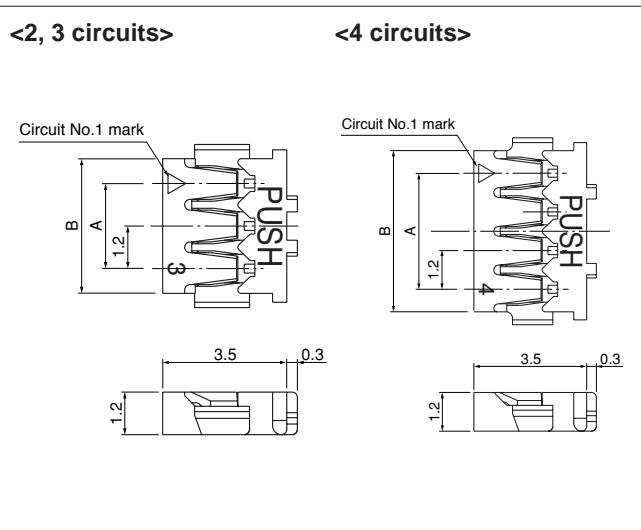
Material and Finish

Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SACH-003G-P0.2	AP-K2N	MKS-L-10-3	MK/SACH-003-02	APLMK SACH003-02

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	ACHR-02V-S	1.2	2.6	1,000
3	ACHR-03V-S	2.4	3.8	1,000
4	ACHR-04V-A-S	3.6	5.0	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

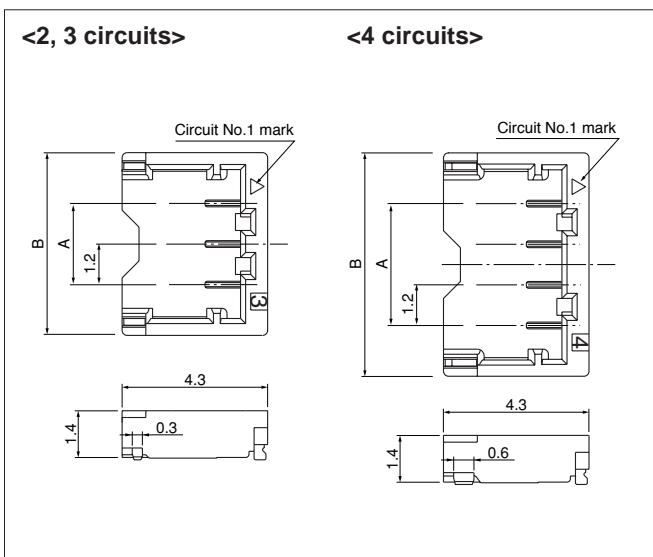
For availability, delivery and minimum order quantity, contact JST.

ex. **ACHR-02V-00**

S...natural (white)

K...black

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	BM02B-ACHSS-GAN-TF	1.2	4.2	4,500
3	BM03B-ACHSS-GAN-TF	2.4	5.4	4,500
4	BM04B-ACHSS-A-GAN-TF	3.6	6.6	4,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

Housing: Heat resisting resin, UL94V-0, natural (ivory)

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,

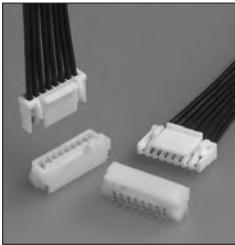
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **BM02B-ACHSS-GAN-TF**

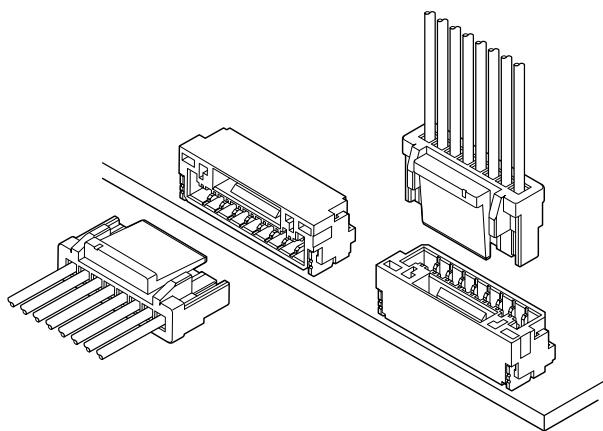
S...natural (ivory)

K...black



GH CONNECTOR

1.25mm pitch/Disconnectable Crimp style connectors



Developed for PDP, LCD or small electronics equipment.

This low insertion force type connector realizes easier mating operation. The basic concept of the contact part of this connector is equivalent to the performance proven SHL connector.

- Secure locking structure
- Contact lock structure
- Prevent deformation of contacts

Specifications

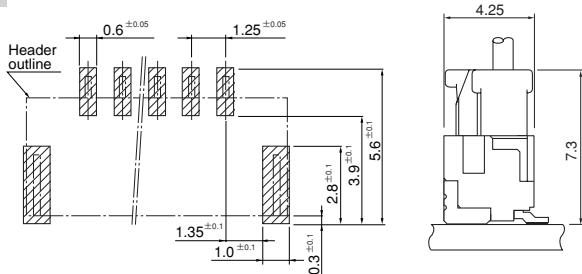
- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30 to #26
Insulation O.D./0.8 to 1.0mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

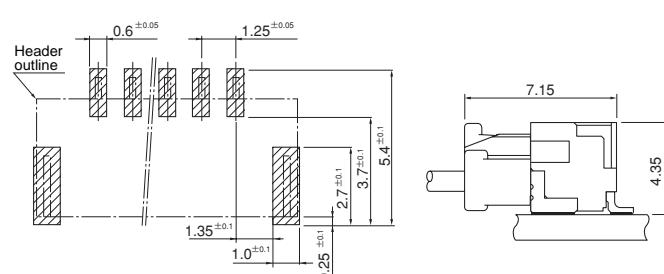
■ Recognized E60389

PC board layout (viewed from component side) and Assembly layout

Top entry type



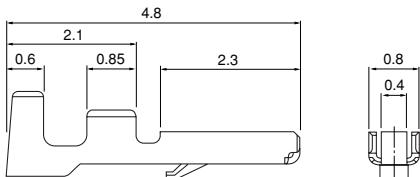
Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSHLL-002T-P0.2	0.05~0.13	30~26	0.8~1.0	23,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

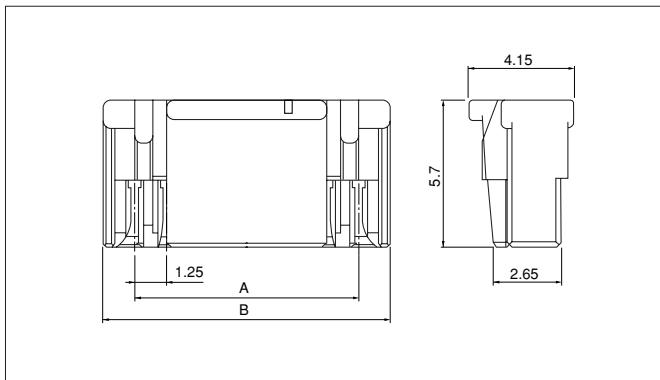
Note: 1. Contact JST for gold-plates products.

2. This contact can be applied only for GH connector.

SSHLL-003(-)P0.2 cannot be applied for GH connector.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHLL-002T-P0.2	AP-K2N	MKS-L-10-3	MK/SSHLL-002-02	APLMK SSHLL002-02

Housing



Circuits	Model No	Dimensions (mm)		Q'ty / box
		A	B	
2	GHR-02V-S	1.25	3.75	4,000
3	GHR-03V-S	2.50	5.00	3,000
4	GHR-04V-S	3.75	6.25	2,500
5	GHR-05V-S	5.00	7.50	2,000
6	GHR-06V-S	6.25	8.75	1,500
7	GHR-07V-S	7.50	10.00	1,500
8	GHR-08V-S	8.75	11.25	1,000
9	GHR-09V-S	10.00	12.50	1,000
10	GHR-10V-S	11.25	13.75	1,000
11	GHR-11V-S	12.50	15.00	1,000
12	GHR-12V-S	13.75	16.25	1,000
13	GHR-13V-S	15.00	17.50	1,000
14	GHR-14V-S	16.25	18.75	500
15	GHR-15V-S	17.50	20.00	500

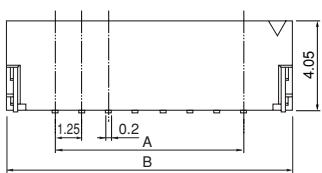
Material

PBT, UL94V-0, natural (white)

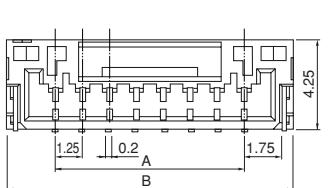
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
2	BM02B-GHS-TBT	SM02B-GHS-TB	1.25	5.75	2,500
3	BM03B-GHS-TBT	SM03B-GHS-TB	2.50	7.00	2,500
4	BM04B-GHS-TBT	SM04B-GHS-TB	3.75	8.25	2,500
5	BM05B-GHS-TBT	SM05B-GHS-TB	5.00	9.50	2,500
6	BM06B-GHS-TBT	SM06B-GHS-TB	6.25	10.75	2,500
7	BM07B-GHS-TBT	SM07B-GHS-TB	7.50	12.00	2,500
8	BM08B-GHS-TBT	SM08B-GHS-TB	8.75	13.25	2,500
9	BM09B-GHS-TBT	SM09B-GHS-TB	10.00	14.50	2,500
10	BM10B-GHS-TBT	SM10B-GHS-TB	11.25	15.75	2,500
11	BM11B-GHS-TBT	SM11B-GHS-TB	12.50	17.00	2,500
12	BM12B-GHS-TBT	SM12B-GHS-TB	13.75	18.25	2,500
13	BM13B-GHS-TBT	SM13B-GHS-TB	15.00	19.50	2,500
14	BM14B-GHS-TBT	SM14B-GHS-TB	16.25	20.75	2,500
15	BM15B-GHS-TBT	SM15B-GHS-TB	17.50	22.00	2,500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

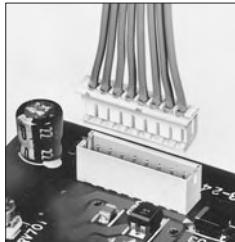
Housing: PA9T, UL94V-0, natural (ivory)

Solder tab: Brass, copper-undercoated, tin-plated

RoHS compliance

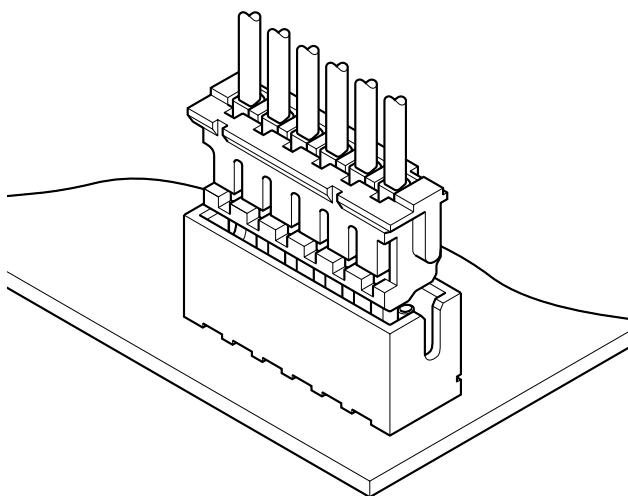
This product displays (LF)(SN) on a label.

Note: Contact JST for gold-plated products.



ZH CONNECTOR

1.5mm pitch/Disconnectable Crimp style connectors



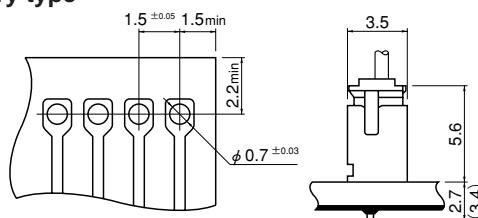
The ZH connector is very small with a mounting height of 5.6mm and a thickness of only 3.5mm. Contact retention lances on the housing make insertion easier, while the dimple at the center of the contact ensures reliable contact with the post.

- Compact, low profile design
- Housing lances
- Reliable contact construction
- Distortion resistant construction
- Compatible with the ZR insulation displacement connectors

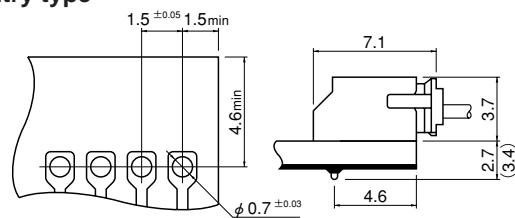
PC board layout and Assembly layout

(Through-hole type (viewed from soldering side))

Top entry type



Side entry type

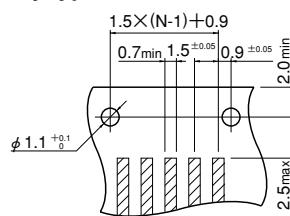


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

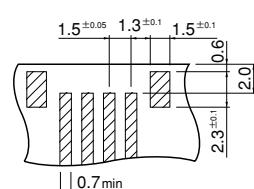
2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

(SMT type (viewed from component side))

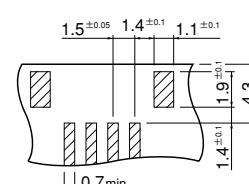
SM2 type Side entry type



SM4 type Top entry type



Side entry type

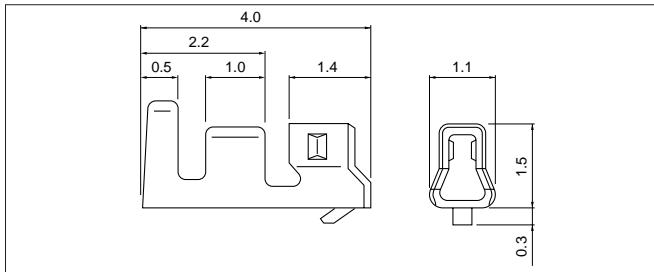


Note: 1. N...Number of circuits

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. The dimensions above should serve as a guideline. Contact JST for details.

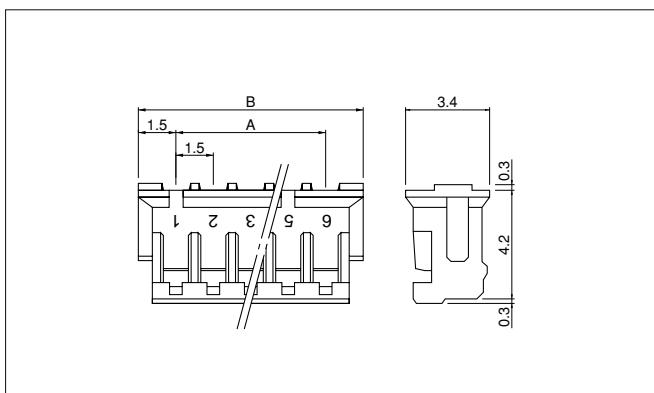
Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-002T-P0.5	AP-K2N	MKS-L	MK/SZH-002-05	APLMK SZH002-05

Note: *Strip-crimp applicator.

Housing



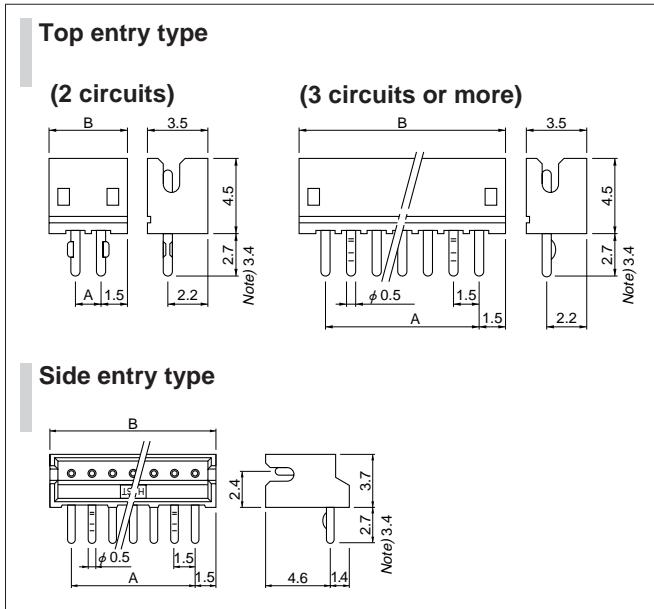
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **ZHR-2-oo**

(blank)...natural (white)

K...black R...red E...blue M...green

Through-hole type shrouded header



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SZH-002T-P0.5	0.08 ~0.13	28~26	0.8~1.1	13,000
SZH-003T-P0.5	0.032~0.08	32~28	0.5~0.9	16,000

Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-003T-P0.5	AP-K2N	MKS-L	MK/SZH-003-05	APLMK SZH003-05

*MKS-SC SC/SZH-003-05 APLSC SZH003-05

Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	ZHR-2	1.5	4.5	1,000
3	ZHR-3	3.0	6.0	1,000
4	ZHR-4	4.5	7.5	1,000
5	ZHR-5	6.0	9.0	1,000
6	ZHR-6(3.0)	7.5	10.5	1,000
7	ZHR-7	15.0	18.0	1,000
8	ZHR-8	9.0	12.0	1,000
9	ZHR-9	10.5	13.5	1,000
10	ZHR-10	12.0	15.0	1,000
11	ZHR-11	13.5	16.5	1,000
12	ZHR-12	15.0	18.0	1,000
13	ZHR-13	16.5	19.5	1,000
		18.0	21.0	1,000

Material				
PA 66, UL94V-0, natural (white)				

RoHS compliance

Note: 1. ZHR-6(3.0) is 6 circuits 3.0mm pitch plugged up.

As for this housing, only circuit No.1 is marked.

2. ZHR-6(3.0) is not UL/CSA/TÜV approved.

Circuits	Model No.				Dimensions (mm)		Q'ty / box		
	Top entry type	Side entry type	(Note) Top entry type	(Note) Side entry type	A	B	Top entry type	Side entry type	Side entry type-3.4
2	B2B-ZR	S2B-ZR	B2B-ZR-3.4	S2B-ZR-3.4	1.5	4.5	2,000	2,000	2,000
3	B3B-ZR	S3B-ZR	B3B-ZR-3.4	S3B-ZR-3.4	3.0	6.0	2,000	2,000	1,000
4	B4B-ZR	S4B-ZR	B4B-ZR-3.4	S4B-ZR-3.4	4.5	7.5	2,000	2,000	2,000
5	B5B-ZR	S5B-ZR	B5B-ZR-3.4	S5B-ZR-3.4	6.0	9.0	2,000	1,000	1,000
6	B6B-ZR	S6B-ZR	B6B-ZR-3.4	S6B-ZR-3.4	7.5	10.5	2,000	1,000	1,000
7	B7B-ZR	S7B-ZR	B7B-ZR-3.4	S7B-ZR-3.4	9.0	12.0	1,000	1,000	1,000
8	B8B-ZR	S8B-ZR	B8B-ZR-3.4	S8B-ZR-3.4	10.5	13.5	1,000	1,000	1,000
9	B9B-ZR	S9B-ZR	B9B-ZR-3.4	S9B-ZR-3.4	12.0	15.0	1,000	1,000	1,000
10	B10B-ZR	S10B-ZR	B10B-ZR-3.4	S10B-ZR-3.4	13.5	16.5	1,000	1,000	1,000
11	B11B-ZR	S11B-ZR	B11B-ZR-3.4	S11B-ZR-3.4	15.0	18.0	1,000	500	500
12	B12B-ZR	S12B-ZR	B12B-ZR-3.4	S12B-ZR-3.4	16.5	19.5	1,000	500	500
13	B13B-ZR	S13B-ZR	B13B-ZR-3.4	S13B-ZR-3.4	18.0	21.0	500	500	500

Material and Finish				
Pin: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)				

RoHS compliance This product displays (LF)(SN) on a label.

Note: Headers with 3.4mm long solder tails, suited for the 1.6mm thick PC board.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-ZR-3.4-oo**

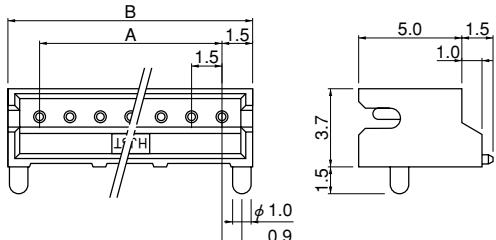
(blank)...natural (ivory)

K...black R...red E...blue M...green

ZH CONNECTOR

SMT type shrouded header

SM2 type Side entry type



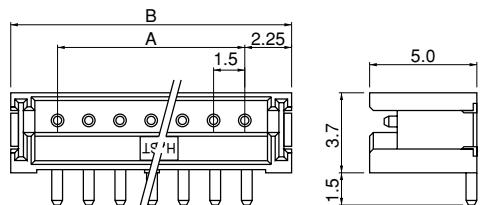
SM2 type

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	S2B-ZR-SM2-TF	1.5	4.5	1,000
3	S3B-ZR-SM2-TF	3.0	6.0	1,000
4	S4B-ZR-SM2-TF	4.5	7.5	1,000
5	S5B-ZR-SM2-TF	6.0	9.0	1,000
6	S6B-ZR-SM2-TF	7.5	10.5	1,000
7	S7B-ZR-SM2-TF	9.0	12.0	1,000
8	S8B-ZR-SM2-TF	10.5	13.5	1,000
9	S9B-ZR-SM2-TF	12.0	15.0	1,000
10	S10B-ZR-SM2-TF	13.5	16.5	1,000
11	S11B-ZR-SM2-TF	15.0	18.0	1,000
12	S12B-ZR-SM2-TF	16.5	19.5	1,000
13	S13B-ZR-SM2-TF	18.0	21.0	1,000

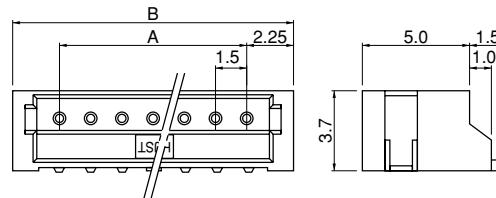
Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 46, UL94V-0, natural (ivory)

SM4 type (with solder tabs) Top entry type



Side entry type



SM4 type

Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
2	B2B-ZR-SM4-TF	S2B-ZR-SM4A-TF	1.5	6.0	1,000
3	B3B-ZR-SM4-TF	S3B-ZR-SM4A-TF	3.0	7.5	1,000
4	B4B-ZR-SM4-TF	S4B-ZR-SM4A-TF	4.5	9.0	1,000
5	B5B-ZR-SM4-TF	S5B-ZR-SM4A-TF	6.0	10.5	1,000
6	B6B-ZR-SM4-TF	S6B-ZR-SM4A-TF	7.5	12.0	1,000
7	B7B-ZR-SM4-TF	S7B-ZR-SM4A-TF	9.0	13.5	1,000
8	B8B-ZR-SM4-TF	S8B-ZR-SM4A-TF	10.5	15.0	1,000
9	B9B-ZR-SM4-TF	S9B-ZR-SM4A-TF	12.0	16.5	1,000
10	B10B-ZR-SM4-TF	S10B-ZR-SM4A-TF	13.5	18.0	1,000
11	B11B-ZR-SM4-TF	S11B-ZR-SM4A-TF	15.0	19.5	1,000
12	B12B-ZR-SM4-TF	S12B-ZR-SM4A-TF	16.5	21.0	1,000
13	B13B-ZR-SM4-TF	S13B-ZR-SM4A-TF	18.0	22.5	1,000

Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.

2. Contact JST for the top entry type headers with suction cap.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S2B-ZR-SM4A-oo-TF**

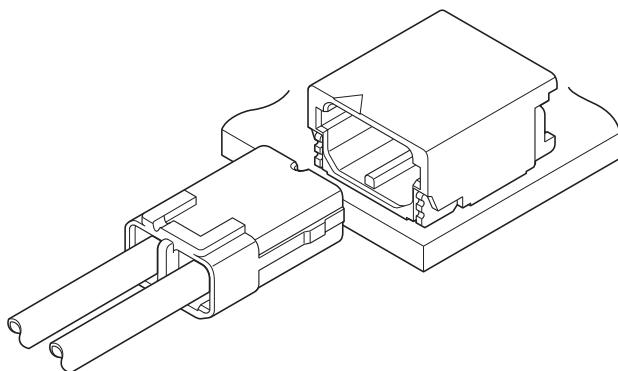
(blank)...natural (ivory)

K...black R...red E...blue M...green



SFH CONNECTOR

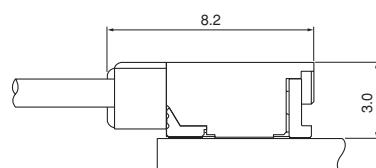
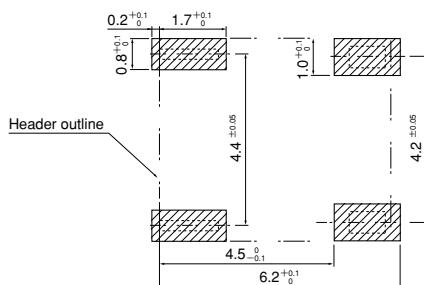
1.8mm pitch/Disconnectable Crimp style connectors



This low profile type connector with height of 3.0mm is designed for connection to stroboscope flash and realized space saving.

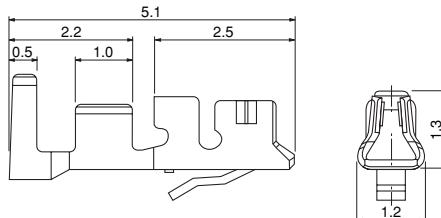
- Contact lance
- Countermeasure for inverse insertion and locking feature

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSFH-001T-P0.5	0.13~0.33	26~22	0.95~1.3	15,000
SSFH-002T-P0.5	0.05~0.13	30~26	0.7 ~1.25	15,000

Material and Finish

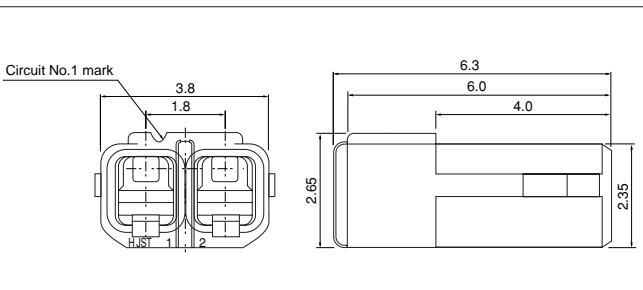
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSFH-001T-P0.5	AP-K2N	MKS-L	MK/SSFH-001-05	APLMK SSFH001-05
		—	—	—
SSFH-002T-P0.5	AP-K2N	MKS-L	MK/SSFH-002-05	APLMK SSFH002-05
		—	—	—

SFH CONNECTOR

Housing



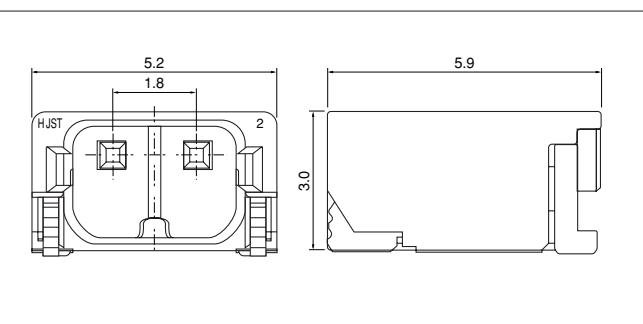
Circuits	Model No.	Q'ty / bag
2	SFHR-02V-R	1,000
Material		
Thermoplastic resin, UL94V-0		

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **SFHR-02V-R**
R...red
L...lemon yellow

Shrouded header

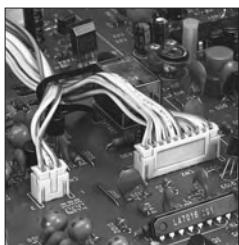


Circuits	Model No.	Q'ty / reel
2	SM02B-SFHRS-TF	2,000
Material and Finish		
Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)		

RoHS compliance This product displays (LF)(SN) on a label.

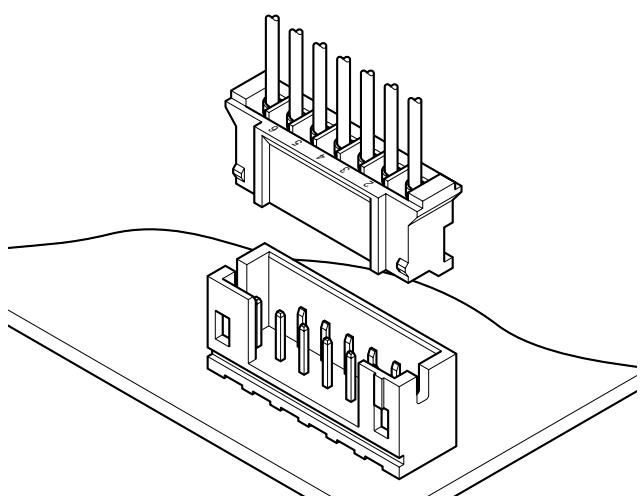
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **SM02B-SFHRS-TF**
R...red
L...lemon yellow



PH CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This is a thin, low-profile 2.0mm pitch connector 8.0mm in height after mounting and 4.5mm in width. It is designed to meet the demand for high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

- Reliable contact
- Fully shrouded header
- Printed circuit board retention mechanism
- Surface mount model (SMT)

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10mΩ max.
After environmental testing/20mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #32 to #24
- Applicable PC board thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

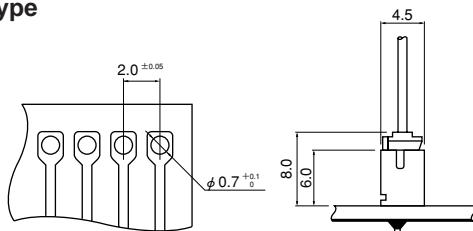
■ Certified LR20812

△ R75087

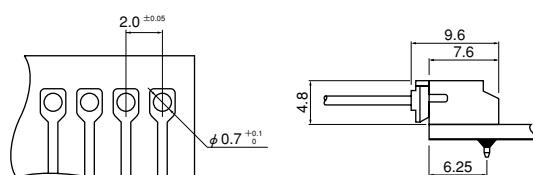
PC board layout and Assembly layout

〈Through-hole type (viewed from soldering side)〉

Top entry type



Side entry type



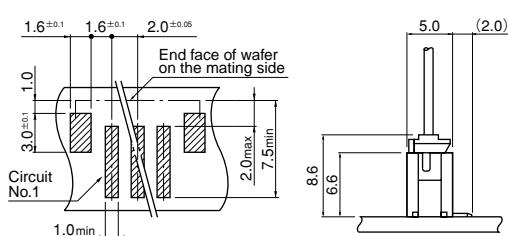
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

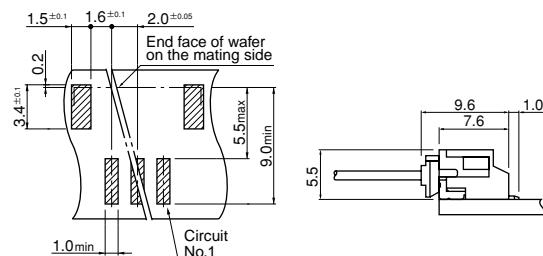
〈SMT type (viewed from component side)〉

SM4 type

Top entry type



Side entry type

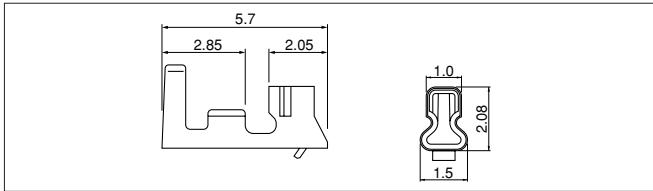


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

PH CONNECTOR

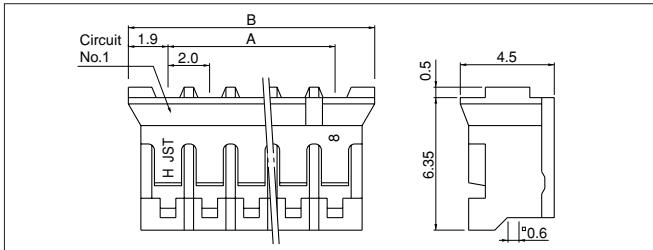
Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5S	AP-K2N	MKS-LS • MKS-L	MK/SPH-002-05S	APLMK SPH002-05S
		*MKS-SC	SC/SPH-002-05S	APLSC SPH002-05S
SPH-002T-P0.5L	AP-K2N	MKS-LS • MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L
SPH-004T-P0.5S	AP-K2N	MKS-L-10	MK/SPH-004-05S	APLMK SPH004-05S
		*MKS-SC-10	SC/SPH-004-05S	APLSC SPH004-05S

Note: *Strip-crimp applicator

Housing



<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PHR-2-00**

(blank)...natural (white)

BK...black R...red TR...tomato red BL...blue Y...yellow

L...lemon yellow M...green D...orange N...brown

P...purple PK...pink H...gray LE...light blue

FY...vivid yellow DPK...dark pink

Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SPH-002T-P0.5S	0.05 ~ 0.22	30~24	0.9~1.5	8,000
SPH-002T-P0.5L	0.08 ~ 0.22	28~24	0.8~1.5	
SPH-004T-P0.5S	0.032~0.08	32~28	0.5~0.9	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note:

1. Contact JST for gold-plated products.
2. **SPH-002T-P0.5L** is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard.
3. Contact JST for details.

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	PHR-2	2.0	5.8	1,000
3	PHR-3	4.0	7.8	1,000
4	PHR-4	6.0	9.8	1,000
5	PHR-5	8.0	11.8	1,000
6	PHR-6	10.0	13.8	1,000
7	PHR-7	12.0	15.8	1,000
8	PHR-8	14.0	17.8	1,000
9	PHR-9	16.0	19.8	1,000
10	PHR-10	18.0	21.8	1,000
11	PHR-11	20.0	23.8	1,000
12	PHR-12	22.0	25.8	1,000
13	PHR-13	24.0	27.8	1,000
14	PHR-14	26.0	29.8	1,000
15	PHR-15	28.0	31.8	1,000
16	PHR-16	30.0	33.8	1,000

Material

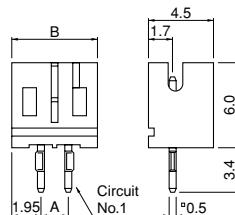
PA 66, UL94V-0, natural (white)

RoHS compliance

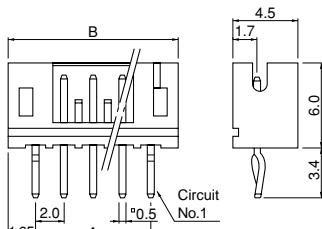
Through-hole type shrouded header

Top entry type

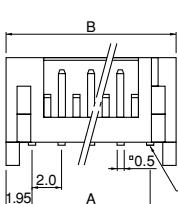
(2 circuits)



(3 circuits or more)



Side entry type



Circuits	Model No.		Dimensions (mm)	Q'ty / box
	Top entry type	Side entry type		
2	B2B-PH-K-S	S2B-PH-K-S	2.0 5.9	1,000 1,000
3	B3B-PH-K-S	S3B-PH-K-S	4.0 7.9	1,000 1,000
4	B4B-PH-K-S	S4B-PH-K-S	6.0 9.9	1,000 500
5	B5B-PH-K-S	S5B-PH-K-S	8.0 11.9	1,000 500
6	B6B-PH-K-S	S6B-PH-K-S	10.0 13.9	1,000 500
7	B7B-PH-K-S	S7B-PH-K-S	12.0 15.9	500 500
8	B8B-PH-K-S	S8B-PH-K-S	14.0 17.9	500 250
9	B9B-PH-K-S	S9B-PH-K-S	16.0 19.9	500 250
10	B10B-PH-K-S	S10B-PH-K-S	18.0 21.9	500 250
11	B11B-PH-K-S	S11B-PH-K-S	20.0 23.9	500 250
12	B12B-PH-K-S	S12B-PH-K-S	22.0 25.9	400 250
13	B13B-PH-K-S	S13B-PH-K-S	24.0 27.9	250 250
14	B14B-PH-K-S	S14B-PH-K-S	26.0 29.9	250 250
15	B15B-PH-K-S	S15B-PH-K-S	28.0 31.9	250 200
16	B16B-PH-K-S	S16B-PH-K-S	30.0 33.9	250 200

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

This product displays (LF)(SN) on a label.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-PH-K-oo**

S...natural (white)

K...black R...red TR...tomato red

E...blue Y...yellow L...lemon yellow M...green

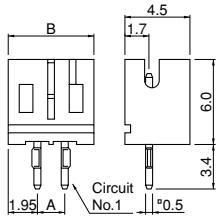
O...orange N...brown P...purple PK...pink H...gray

LE...light blue FY...vivid yellow (blank)...ivory

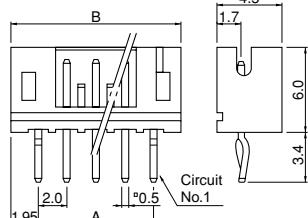
Through-hole type shrouded header <Low insertion force type>

Top entry type

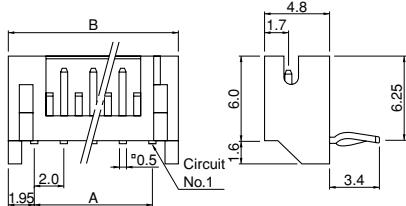
(2 circuits)



(3 circuits or more)



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-PH-KL	S2B-PH-KL	2.0	5.9	1,000	1,000
3	B3B-PH-KL	S3B-PH-KL	4.0	7.9	1,000	1,000
4	B4B-PH-KL	S4B-PH-KL	6.0	9.9	1,000	500
5	B5B-PH-KL	S5B-PH-KL	8.0	11.9	1,000	500
6	B6B-PH-KL	S6B-PH-KL	10.0	13.9	1,000	500
7	B7B-PH-KL	S7B-PH-KL	12.0	15.9	500	500
8	B8B-PH-KL	S8B-PH-KL	14.0	17.9	500	250
9	B9B-PH-KL	S9B-PH-KL	16.0	19.9	500	250
10	B10B-PH-KL	S10B-PH-KL	18.0	21.9	500	250
11	B11B-PH-KL	S11B-PH-KL	20.0	23.9	500	250
12	B12B-PH-KL	S12B-PH-KL	22.0	25.9	400	250
13	B13B-PH-KL	S13B-PH-KL	24.0	27.9	250	250
14	B14B-PH-KL	S14B-PH-KL	26.0	29.9	250	200
15	B15B-PH-KL	S15B-PH-KL	28.0	31.9	250	200
16	B16B-PH-KL	S16B-PH-KL	30.0	33.9	250	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-PH-KL-oo**

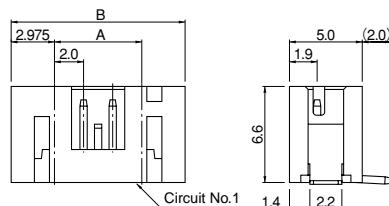
(blank)...gray

R...red E...blue M...green L...lemon yellow K...black

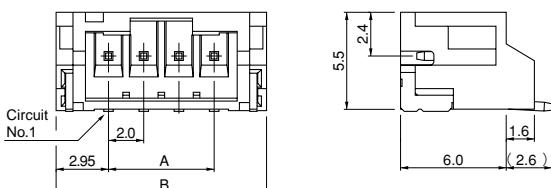
DPK...dark pink

SMT type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B		
2	B2B-PH-SM4-TB	S2B-PH-SM4-TB	2.0	7.95	7.9	1,000
3	B3B-PH-SM4-TB	S3B-PH-SM4-TB	4.0	9.95	9.9	1,000
4	B4B-PH-SM4-TB	S4B-PH-SM4-TB	6.0	11.95	11.9	1,000
5	B5B-PH-SM4-TB	S5B-PH-SM4-TB	8.0	13.95	13.9	1,000
6	B6B-PH-SM4-TB	S6B-PH-SM4-TB	10.0	15.95	15.9	1,000
7	B7B-PH-SM4-TB	S7B-PH-SM4-TB	12.0	17.95	17.9	1,000
8	B8B-PH-SM4-TB	S8B-PH-SM4-TB	14.0	19.95	19.9	1,000
9	B9B-PH-SM4-TB	S9B-PH-SM4-TB	16.0	21.95	21.9	1,000
10	B10B-PH-SM4-TB	S10B-PH-SM4-TB	18.0	23.95	23.9	1,000
11	B11B-PH-SM4-TB	S11B-PH-SM4-TB	20.0	25.95	25.9	1,000
12	B12B-PH-SM4-TB	S12B-PH-SM4-TB	22.0	27.95	27.9	1,000
13	B13B-PH-SM4-TB	S13B-PH-SM4-TB	24.0	29.95	29.9	1,000
14	B14B-PH-SM4-TB	S14B-PH-SM4-TB	26.0	31.95	31.9	1,000
15	B15B-PH-SM4-TB	S15B-PH-SM4-TB	28.0	33.95	33.9	1,000
16	B16B-PH-SM4-TB	—	30.0	35.95	—	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: Contact JST for the top entry type headers with suction cap.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-PH-SM4-oo-TB**

(blank)...natural (ivory)

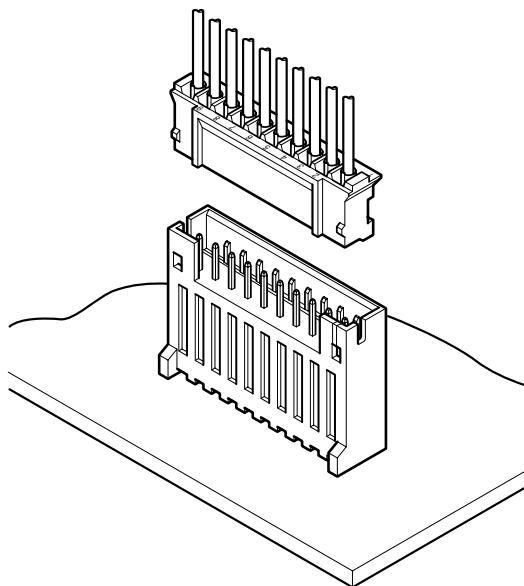
R...red E...blue M...green L...lemon yellow K...black

DPK...dark pink



PH CONNECTOR <High box type>

2.0mm pitch/Disconnectable Crimp style connectors



PH connector high box type, with 17.0mm mounting height and with 4.5mm thickness.

- **Interchangeability**

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #30 to #24
- Applicable PC board thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

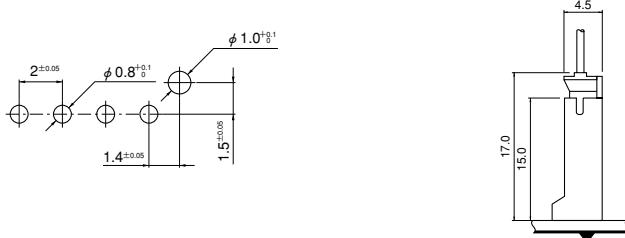
Standards

■ Recognized E60389

■ Certified LR20812

△ R75087

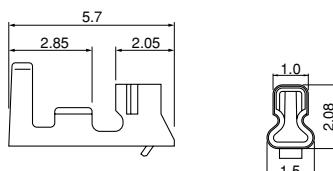
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The hole dimensions shown above are reference values. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPH-002T-P0.5S	0.05 ~ 0.22	30~24	0.9~1.5	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

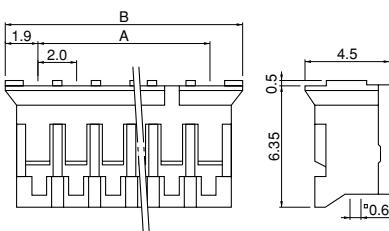
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5S	AP-K2N	MKS-LS • MKS-L	MK/SPH-002-05S	APLMK SPH002-05S
		*MKS-SC	SC/SPH-002-05S	APLSC SPH002-05S

Note: *Strip-crimp applicator

PH CONNECTOR <High box type>

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	PHR-2	2.0	5.8	1,000
3	PHR-3	4.0	7.8	1,000
4	PHR-4	6.0	9.8	1,000
5	PHR-5	8.0	11.8	1,000
6	PHR-6	10.0	13.8	1,000
7	PHR-7	12.0	15.8	1,000
8	PHR-8	14.0	17.8	1,000
9	PHR-9	16.0	19.8	1,000
10	PHR-10	18.0	21.8	1,000
11	PHR-11	20.0	23.8	1,000
12	PHR-12	22.0	25.8	1,000
13	PHR-13	24.0	27.8	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

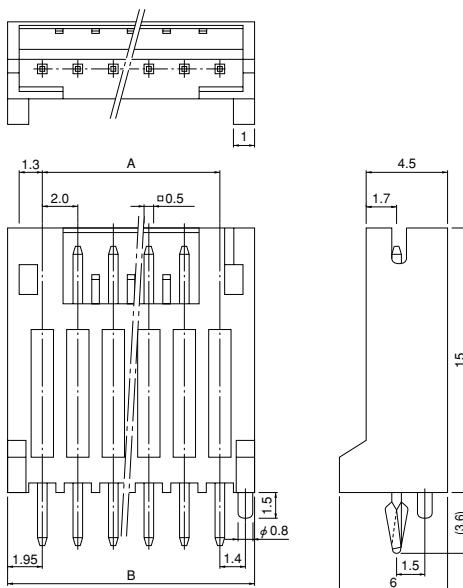
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PHR-2-oo**

(blank)...natural (white)

BK...black R...red TR...tomato red BL...blue Y...yellow
L...lemon yellow M...green D...orange N...brown P...purple
PK...pink H...gray LE...light blue FY...vivid yellow

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	BH2B-PH	2.0	5.9	800
3	BH3B-PH	4.0	7.9	480
4	BH4B-PH	6.0	9.9	400
5	BH5B-PH	8.0	11.9	390
6	BH6B-PH	10.0	13.9	300
7	BH7B-PH	12.0	15.9	240
8	BH8B-PH	14.0	17.9	240
9	BH9B-PH	16.0	19.9	200
10	BH10B-PH	18.0	21.9	200
11	BH11B-PH	20.0	23.9	150
12	BH12B-PH	22.0	25.9	150
13	BH13B-PH	24.0	27.9	100

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

This product displays (LF)(SN) on a label.
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **BH2B-PH-oo**

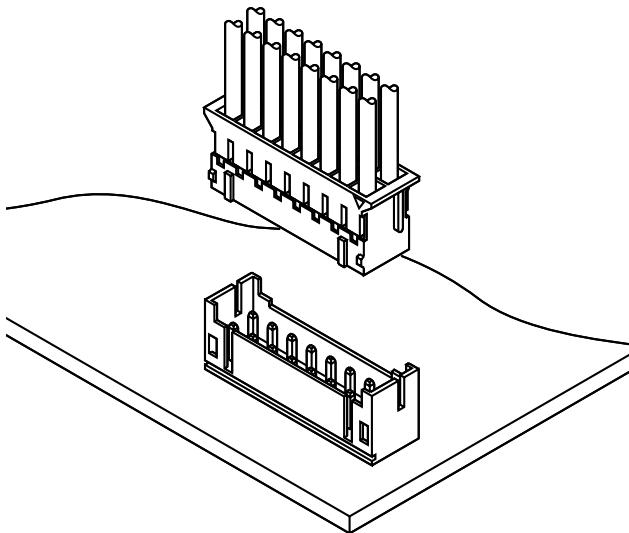
(blank)...natural (white)

K...black R...red E...blue Y...yellow M...green N...brown



PHD CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors

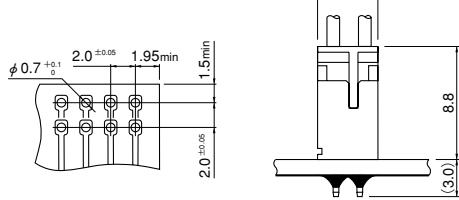


This is a 2.0mm pitch, crimp style, double-row, wire-to-board connector. It is designed to meet the demand for high-density and low-profile connection.

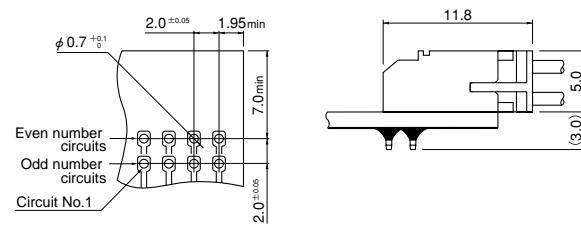
- Compact
- Reliable contacts
- Fully shrouded header

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



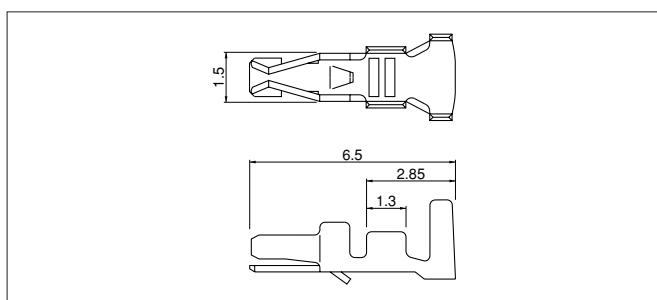
Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-LS-10 · MKS-L-10 *MKS-SC-10	MK/SPHD-002-05 SC/SPHD-002-05	APLMK SPHD002-05 APLSC SPHD002-05

Note: *Strip-crimp applicator

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPHD-002T-P0.5	0.08~0.21	28~24	0.9~1.5	8,000
SPHD-001T-P0.5	0.13~0.33	26~22	1.0~1.5	

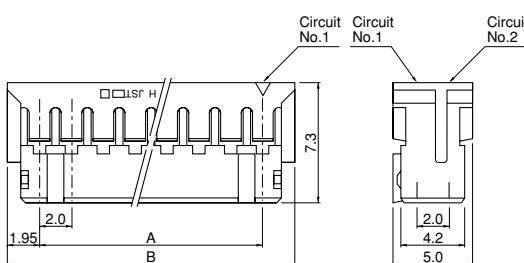
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-L-10 · MKS-LS-10 *MKS-SC-10	MK/SPHD-001-05 SC/SPHD-001-05	APLMK SPHD001-05 APLSC SPHD001-05
SPHD-001T-P0.5	AP-K2N			

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	PHDR-08VS	6.0	9.9	1,000
10	PHDR-10VS	8.0	11.9	1,000
12	PHDR-12VS	10.0	13.9	1,000
14	PHDR-14VS	12.0	15.9	1,000
16	PHDR-16VS	14.0	17.9	1,000
18	PHDR-18VS	16.0	19.9	1,000
20	PHDR-20VS	18.0	21.9	1,000
22	PHDR-22VS	20.0	23.9	1,000
24	PHDR-24VS	22.0	25.9	1,000
26	PHDR-26VS	24.0	27.9	1,000
28	PHDR-28VS	26.0	29.9	1,000
30	PHDR-30VS	28.0	31.9	1,000
32	PHDR-32VS	30.0	33.9	1,000
34	PHDR-34VS	32.0	35.9	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

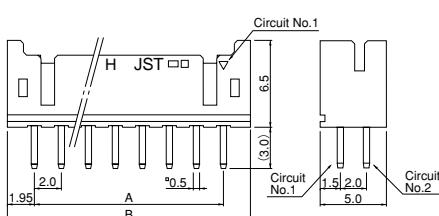
ex. **PHDR-10VS**

S...natural (white)

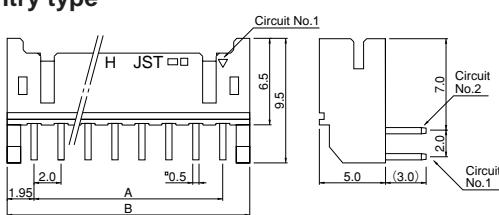
K...black Y...yellow E...blue R...red

Shrouded header

Top entry type



Side entry type



Circuits	Model No.				Dimensions (mm)		Q'ty / box	
	Glass-filled nylon		Nylon		A	B	Top entry type	Side entry type
	Top entry type	Side entry type	Top entry type	Side entry type				
8	B8B-PHDSS	S8B-PHDSS	—	—	6.0	9.9	500	500
10	B10B-PHDSS	S10B-PHDSS	B10B-PHDSS-B	S10B-PHDSS-B	8.0	11.9	500	500
12	B12B-PHDSS	S12B-PHDSS	B12B-PHDSS-B	S12B-PHDSS-B	10.0	13.9	500	500
14	B14B-PHDSS	S14B-PHDSS	B14B-PHDSS-B	S14B-PHDSS-B	12.0	15.9	500	250
16	B16B-PHDSS	S16B-PHDSS	B16B-PHDSS-B	S16B-PHDSS-B	14.0	17.9	500	250
18	B18B-PHDSS	S18B-PHDSS	B18B-PHDSS-B	S18B-PHDSS-B	16.0	19.9	500	250
20	B20B-PHDSS	S20B-PHDSS	B20B-PHDSS-B	S20B-PHDSS-B	18.0	21.9	250	250
22	B22B-PHDSS	S22B-PHDSS	B22B-PHDSS-B	S22B-PHDSS-B	20.0	23.9	250	250
24	B24B-PHDSS	S24B-PHDSS	B24B-PHDSS-B	S24B-PHDSS-B	22.0	25.9	250	200
26	B26B-PHDSS	S26B-PHDSS	B26B-PHDSS-B	S26B-PHDSS-B	24.0	27.9	250	200
28	B28B-PHDSS	S28B-PHDSS	B28B-PHDSS-B	S28B-PHDSS-B	26.0	29.9	250	200
30	B30B-PHDSS	S30B-PHDSS	B30B-PHDSS-B	S30B-PHDSS-B	28.0	31.9	250	200
32	B32B-PHDSS	S32B-PHDSS	B32B-PHDSS-B	S32B-PHDSS-B	30.0	33.9	250	200
34	B34B-PHDSS	S34B-PHDSS	B34B-PHDSS-B	S34B-PHDSS-B	32.0	35.9	250	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

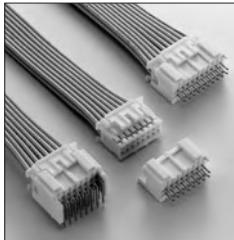
ex. **B10B-PHDSS**

S...natural (ivory)

ex. **B10B-PHDSS-B**

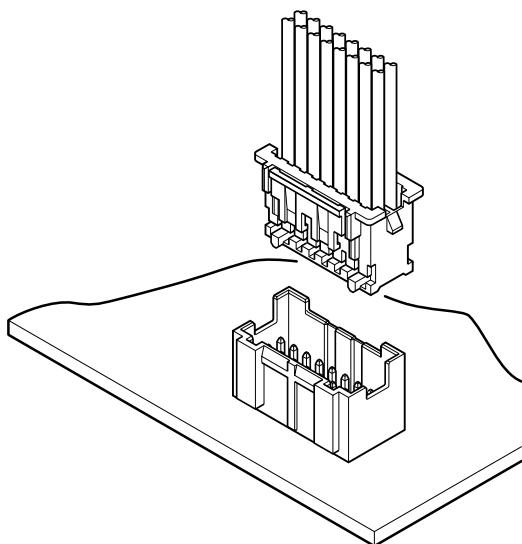
S...natural (white)

K...black Y...yellow E...blue R...red



PAD CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



Dual-row construction allows high density mounting.

- Secure locking device
- Reliable contacts
- Insertion guide mechanism
- Polarizing boss

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

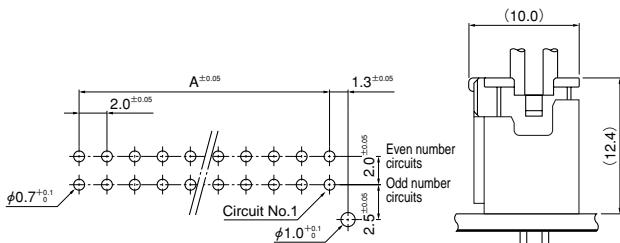
Standards

Recognized E60389

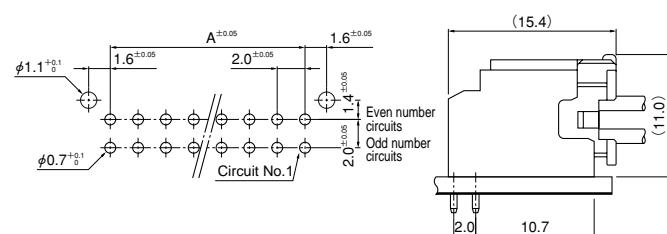
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type



Side entry type

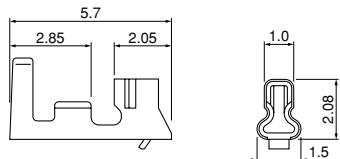


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

PAD CONNECTOR

Contact

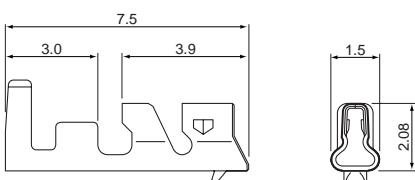


Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPH-001T-P0.5L	0.13~0.33	26~22	1.0~1.5	8,000
SPH-002T-P0.5L	0.08~0.22	28~24	0.8~1.5	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPND-001T-C0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPND-002T-C0.5	0.08~0.22	28~24	0.8~1.5	

Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: SPND-()-C0.5 is low insertion/withdrawal force type contact, in order to improve the work of insertion/withdrawal.

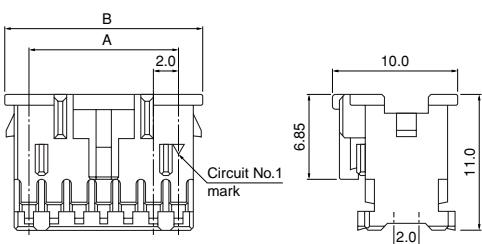
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-001T-P0.5L	AP-K2N	MKS-LS • MKS-L	MK/SPH-001-05L	APLMK SPH001-05L
		—	—	—
SPH-002T-P0.5L	AP-K2N	MKS-LS • MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-LS • MKS-L	MK/SPND-001-05	APLMK SPND001-05
		—	—	—
SPND-002T-C0.5	AP-K2N	MKS-LS • MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05
		—	—	—

Housing

(14 circuits or less)

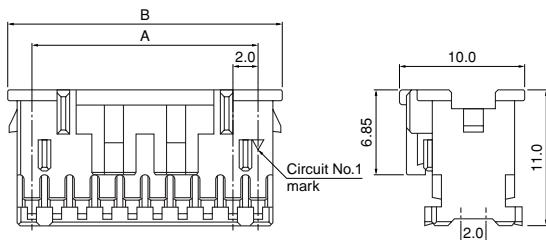


Circuit	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
10	PADP-10V-1-S	8.0	12.0	1,000
12	PADP-12V-1-S	10.0	14.0	1,000
14	PADP-14V-1-S	12.0	16.0	1,000
16	PADP-16V-1-S	14.0	18.0	250
20	PADP-20V-1-S	18.0	22.0	200
22	PADP-22V-1-S	20.0	24.0	1,000
24	PADP-24V-1-S	22.0	26.0	1,000
40	PADP-40V-1-S	38.0	42.0	500

Material

PA 66, UL94V-0, natural (white)

(16 circuits or more)



RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PADP-16V-1-S**

S...natural (white)

K...black R...red Y...yellow E...blue M...green P...purple

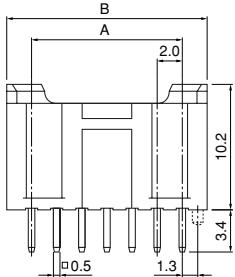
L...lemon yellow

PAD CONNECTOR

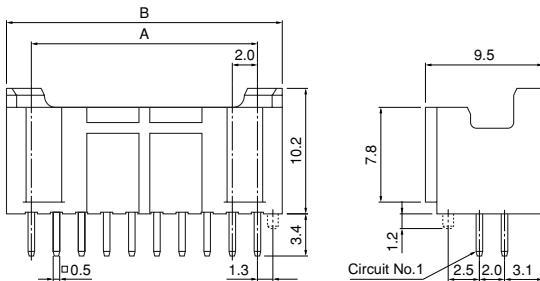
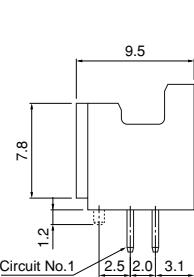
Shrouded header

Top entry type

(14 circuits or less)

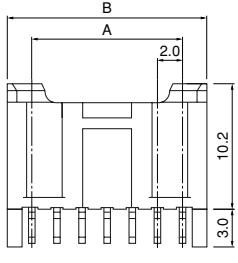


(16 circuits or more)

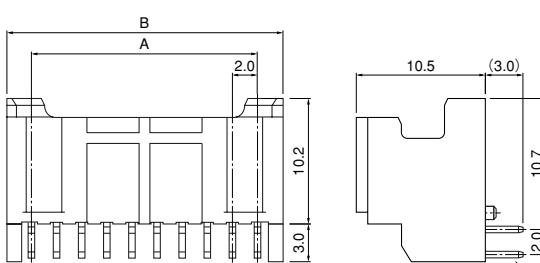
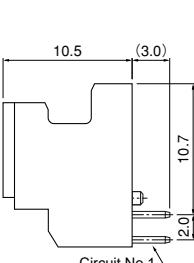


Side entry type

(14 circuits or less)



(16 circuits or more)



Circuit	Model No.			Dimensions (mm)		Q'ty / box	
	Top entry type		Side entry type	A	B	Top entry type	Side entry type
	With a boss	Without a boss					
10	B10B-PADSS-1F	B10B-PADSS-F	S10B-PADSS-1	8.0	12.0	400	504
12	B12B-PADSS-1F	B12B-PADSS-F	S12B-PADSS-1	10.0	14.0	300	420
14	B14B-PADSS-1F	B14B-PADSS-F	S14B-PADSS-1	12.0	16.0	300	364
16	B16B-PADSS-1F	B16B-PADSS-F	S16B-PADSS-1	14.0	18.0	200	336
20	B20B-PADSS-1F	B20B-PADSS-F	S20B-PADSS-1	18.0	22.0	150	280
22	B22B-PADSS-1F	B22B-PADSS-F	-	20.0	24.0	150	-
24	B24B-PADSS-1F	B24B-PADSS-F	S24B-PADSS-1	22.0	26.0	150	224
40	B40B-PADSS-1F	-	-	38.0	42.0	100	-

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PBT, UL94V-0, (natural) [side entry type]

Glass-filled PA 66, UL94V-0, (natural) [top entry type]

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

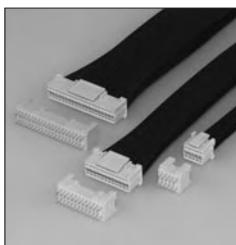
For availability, delivery and minimum order quantity, contact JST.

ex. B16B-PADSS-1F

S...natural (white)

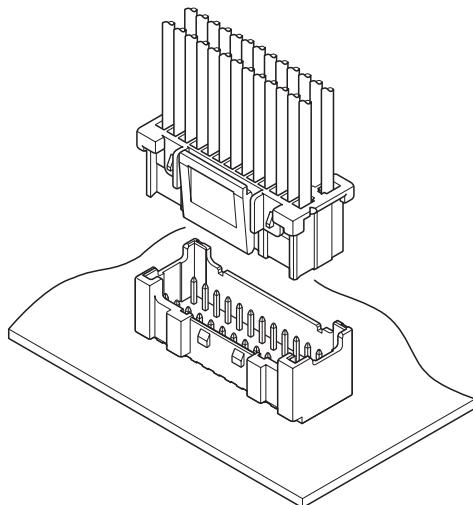
K...black R...red Y...yellow E...blue M...green P...purple

L...lemon yellow



PND CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



The PND connector is the high-density dipping type connector with secure lock for wire to board connection and enabled to achieve excellent workability and withstand the unexpected external force.

- Superior operability (Low insertion force)
- Withstanding external force and secure locking device
- Countermeasure for inverse insertion and mismatching insertion
- High density
- Polarizing boss

Specifications

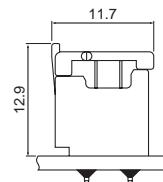
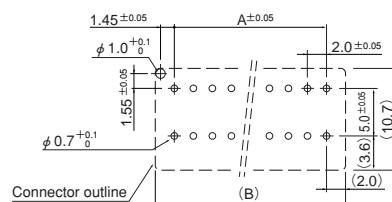
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10mΩ max.
After environmental testing/20mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

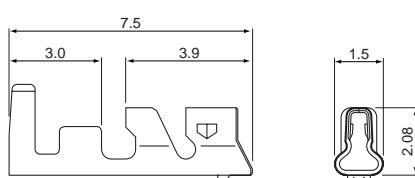
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPND-001T-C0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPND-002T-C0.5	0.08~0.22	28~24	0.8~1.5	

Material and Finish

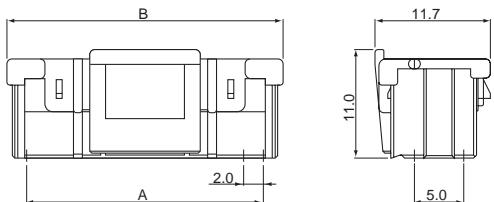
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-LS • MKS-L	MK/SPND-001-05	APLMK SPND001-05
		—	—	—
SPND-002T-C0.5	AP-K2N	MKS-LS • MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05
		—	—	—

PND CONNECTOR

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	PNDP-08V-Z	6.0	10.0	500
10	PNDP-10V-Z	8.0	12.0	500
12	PNDP-12V-Z	10.0	14.0	500
14	PNDP-14V-Z	12.0	16.0	500
16	PNDP-16V-Z	14.0	18.0	300
18	PNDP-18V-Z	16.0	20.0	300
20	PNDP-20V-Z	18.0	22.0	300
22	PNDP-22V-Z	20.0	24.0	300
24	PNDP-24V-Z	22.0	26.0	250
26	PNDP-26V-Z	24.0	28.0	250
28	PNDP-28V-Z	26.0	30.0	250
30	PNDP-30V-Z	28.0	32.0	150
32	PNDP-32V-Z	30.0	34.0	150
34	PNDP-34V-Z	32.0	36.0	150
36	PNDP-36V-Z	34.0	38.0	100
38	PNDP-38V-Z	36.0	40.0	100
40	PNDP-40V-Z	38.0	42.0	100

Material

PA 66, UL94V-0, ivory

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

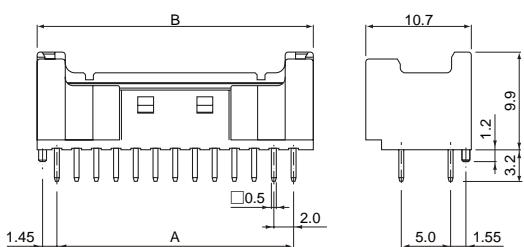
ex. **PNDP-28V-Z**

Z...ivory

K...black R...red E...blue M...green N...brown PK...pink

D...orange

Shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	With boss	Without boss	A	B	
8	B08B-PNDZS-1	B08B-PNDZS	6.0	10.0	736
10	B10B-PNDZS-1	B10B-PNDZS	8.0	12.0	608
12	B12B-PNDZS-1	B12B-PNDZS	10.0	14.0	512
14	B14B-PNDZS-1	B14B-PNDZS	12.0	16.0	448
16	B16B-PNDZS-1	B16B-PNDZS	14.0	18.0	416
18	B18B-PNDZS-1	B18B-PNDZS	16.0	20.0	352
20	B20B-PNDZS-1	B20B-PNDZS	18.0	22.0	320
22	B22B-PNDZS-1	B22B-PNDZS	20.0	24.0	288
24	B24B-PNDZS-1	B24B-PNDZS	22.0	26.0	288
26	B26B-PNDZS-1	B26B-PNDZS	24.0	28.0	256
28	B28B-PNDZS-1	B28B-PNDZS	26.0	30.0	224
30	B30B-PNDZS-1	B30B-PNDZS	28.0	32.0	224
32	B32B-PNDZS-1	B32B-PNDZS	30.0	34.0	192
34	B34B-PNDZS-1	B34B-PNDZS	32.0	36.0	192
36	B36B-PNDZS-1	B36B-PNDZS	34.0	38.0	192
38	B38B-PNDZS-1	B38B-PNDZS	36.0	40.0	160
40	B40B-PNDZS-1	B40B-PNDZS	38.0	42.0	160

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0, ivory

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

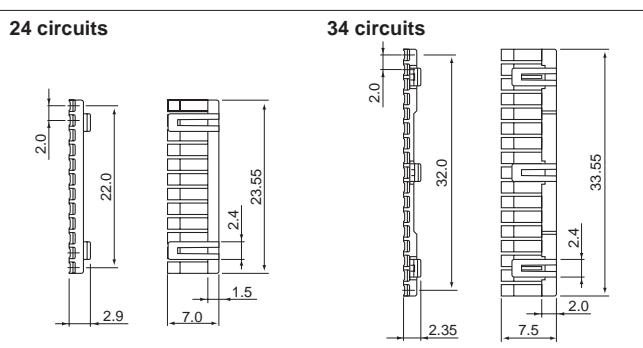
ex. **B28B-PNDZS-1**

Z...ivory

K...black R...red E...blue M...green

N...brown PK...pink D...orange

Retainer

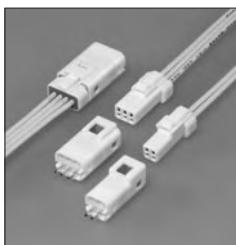


Circuits	Model No.	Q'ty / bag
24	PNDS-24V-Z	1,000
34	PNDS-34V-Z	1,000

Material

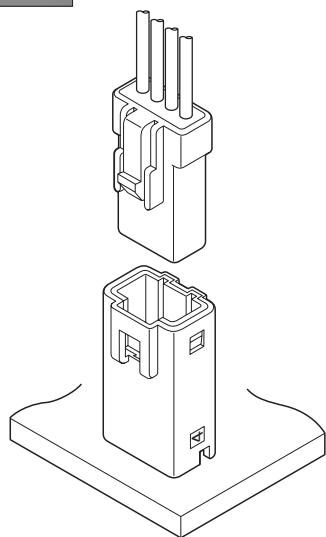
Glass-filled PA 66, UL94V-0, ivory

RoHS compliance



JWPF CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



Applicable for waterproof usage. Its waterproof grade is more than 7 ingress protection of JIC C 0920 (IEC 60529 IPX7).

- **Waterproof performance**
- **Contained seal ring**
- **Solid rubber seal**
- **Double-spring construction**
- **Housing-to-terminal locks**
- **Inner housing lock**
- **Interchangeability**
- **Header for use specifically with resin coated ("potted") PC board**

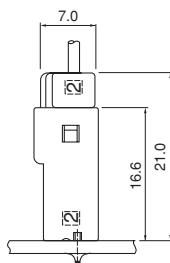
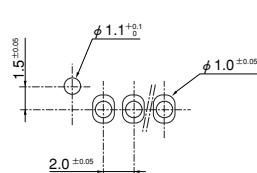
Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/5m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
0.13 to 0.33mm²
Insulation O.D./1.4 to 1.6mm
- Waterproof grade: More than grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).

Standards

■ Recognized E60389

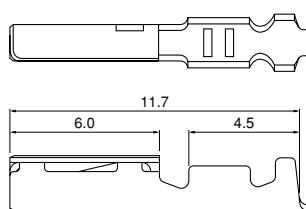
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D (mm)	Q'ty / reel
	mm ²	AWG#		
SWPR-001T-P025	0.13~0.33	26~22	1.4~1.6	8,200

Material and Finish

Copper alloy, tin-plated (reflow treatment)

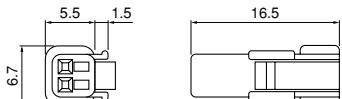
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPR-001T-P025	AP-K2N	MKS-L	MK/SWPR/T-001-025	APLMK SWPR/T001-025

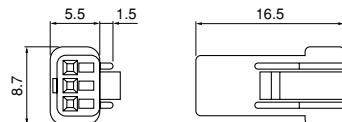
JWPF CONNECTOR

Housing

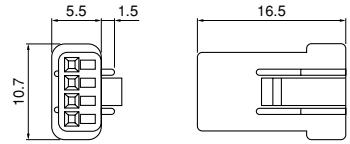
(2 circuits)



(3 circuits)



(4 circuits)



Note: Housing comes with seal rubber plate.

Circuits	Model No.	Q'ty / bag
2	02R-JWPF-VSLE-S	1,000
3	03R-JWPF-VSLE-S	1,000
4	04R-JWPF-VSLE-S	1,000

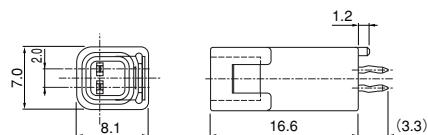
Material

PBT, UL94V-0, natural (white)

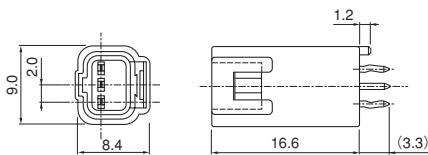
RoHS compliance

Shrouded header

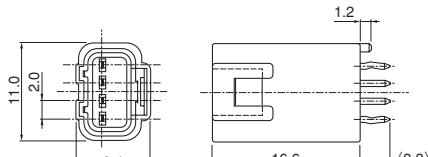
(2 circuits)



(3 circuits)



(4 circuits)



Circuits	Model No.	Q'ty / box
2	B02B-JWPF-SK-R	825
3	B03B-JWPF-SK-R	650
4	B04B-JWPF-SK-R	525

Material and Finish

Press pin: Copper alloy, tin-plated (reflow treatment)

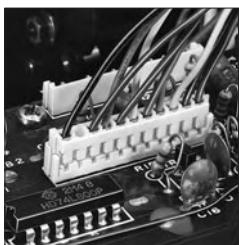
Seal ring: Silicon rubber

Seal ring holder: PBT, UL94V-0, yellow

Wafer: Glass-filled PBT, UL94V-0, natural (white)

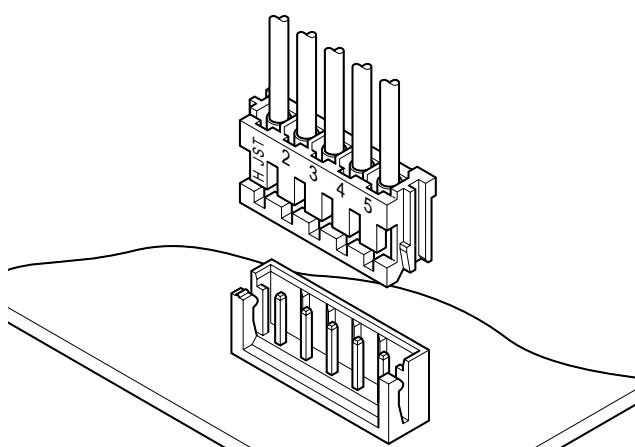
RoHS compliance

This product displays (LF)(SN) on a label.



EH CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



This, the thinnest, 2.5mm pitch connector, is 8.1mm in height after mounting and 3.8mm in width. It is designed to meet the demand for the high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

- Compact and slim
- Highly reliable contact
- Polarizing guides
- Easy and effective crimping

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #32 to #22
- Applicable PC board thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

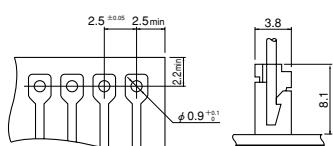
■ Recognized E60389

■ Certified LR20812

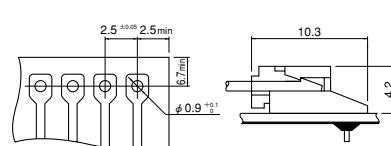
△ R50082349

PC board layout (viewed from soldering side) and Assembly layout

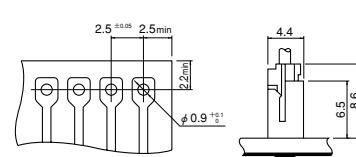
Top entry type



Side entry type



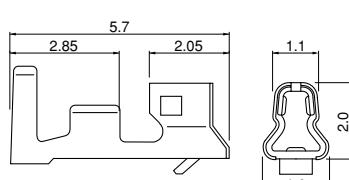
Radial-tape



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SEH-001T-P0.6	0.05 ~ 0.33	30~22	1.0~1.9	
*SEH-001T-P0.6L	0.13 ~ 0.33	26~22	0.9~1.9	9,000
*SEH-002T-P0.6L	0.05 ~ 0.13	30~26	0.9~1.3	
*SEH-003T-P0.6L	0.032~0.08	32~28	0.5~1.1	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for gold-plated products.

2. SEH-00()T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.

3. *Marked products are not TÜV approved.

4. Contact JST for details.

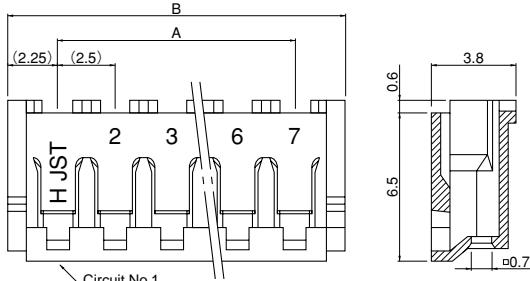
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SEH-001T-P0.6	AP-K2N	MKS-LS • MKS-L	MK/SEH-001-06	APLMK SEH001-06
		*MKS-SC	SC/SEH-001-06	APLSC SEH001-06
SEH-001T-P0.6L	AP-K2N	MKS-LS • MKS-L	MK/SEH-001-06L	APLMK SEH001-06L
		*MKS-SC	SC/SEH-001-06L	APLSC SEH001-06L

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SEH-002T-P0.6L	AP-K2N	MKS-LS • MKS-L	MK/SEH-002-06L	APLMK SEH002-06L
		—	—	—
SEH-003T-P0.6L	AP-K2N	MKS-L-10	MK/SEH-003-06L	APLMK SEH003-06L
		*MKS-SC-10	SC/SEH-003-06L	APLSC SEH003-06L

EH CONNECTOR

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	EHR-2	2.5	7.0	1,000
3	EHR-3	5.0	9.5	1,000
4	EHR-4	7.5	12.0	1,000
5	EHR-5	10.0	14.5	1,000
6	EHR-6	12.5	17.0	1,000
7	EHR-7	15.0	19.5	1,000
8	EHR-8	17.5	22.0	1,000
9	EHR-9	20.0	24.5	1,000
10	EHR-10	22.5	27.0	1,000
11	EHR-11	25.0	29.5	1,000
12	EHR-12	27.5	32.0	1,000
13	EHR-13	30.0	34.5	1,000
14	EHR-14	32.5	37.0	1,000
15	EHR-15	35.0	39.5	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

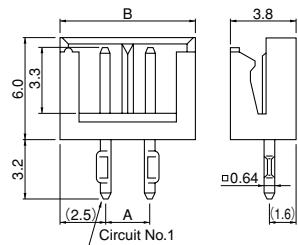
ex. EHR-2-oo

(blank)...natural (white)
K...black R...red TR...tomato red E...blue Y...yellow
L...lemon yellow M...green O...orange N...brown PL...purple
PK...pink H...gray LE...light blue FY...vivid yellow

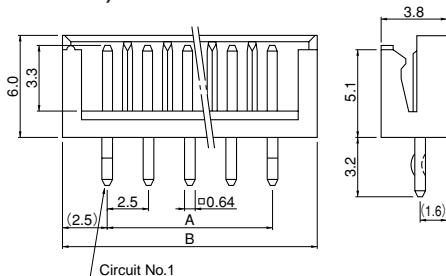
Shrouded header

The shrouded headers are interchangeable with those of the HR crimp style and insulation displacement connectors.

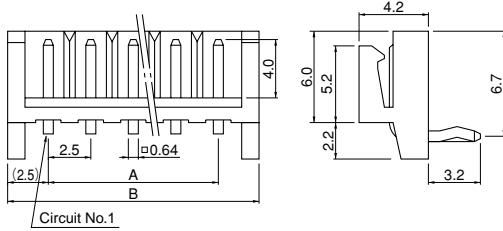
Top entry type (2 circuits)



(3 to 15 circuits)



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-EH-A	S2B-EH	2.5	7.5	1,000	1,000
3	B3B-EH-A	S3B-EH	5.0	10.0	1,000	1,000
4	B4B-EH-A	S4B-EH	7.5	12.5	1,000	1,000
5	B5B-EH-A	S5B-EH	10.0	15.0	1,000	1,000
6	B6B-EH-A	S6B-EH	12.5	17.5	1,000	500
7	B7B-EH-A	S7B-EH	15.0	20.0	1,000	500
8	B8B-EH-A	S8B-EH	17.5	22.5	500	500
9	B9B-EH-A	S9B-EH	20.0	25.0	500	500
10	B10B-EH-A	S10B-EH	22.5	27.5	500	500
11	B11B-EH-A	S11B-EH	25.0	30.0	500	250
12	B12B-EH-A	S12B-EH	27.5	32.5	500	250
13	B13B-EH-A	S13B-EH	30.0	35.0	250	250
14	B14B-EH-A	S14B-EH	32.5	37.5	250	250
15	B15B-EH-A	S15B-EH	35.0	40.0	250	250

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

This product displays (LF)(SN) on a label.
Note: Also available and identified as model BxxB-EH is a top entry type having a post extension length of 4.0mm

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

<Top entry type>

ex. B2B-EH-A-oo

(blank)...natural (white)
K...black R...red TR...tomato red E...blue Y...yellow M...green

<Side entry type>

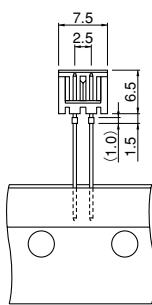
ex. S2B-EH-oo

(blank)...natural (white)
K...black R...red TR...tomato red E...blue Y...yellow L...lemon yellow M...green O...orange N...brown P...purple PK...pink H...gray LE...light blue FY...vivid yellow

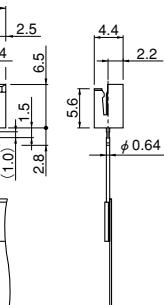
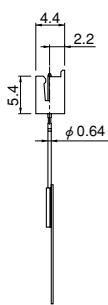
Shrouded header on radial-tape

● TS type

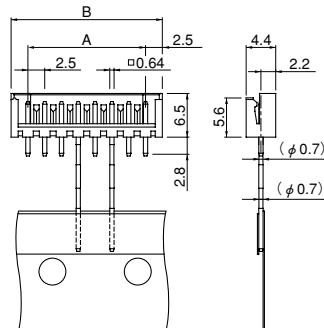
(2 circuits)



(3 to 8 circuits)



● TV4 type



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	TS type	TV4 type	A	B	
2	B2B-EH-TS	—	—	—	1,400
3	B3B-EH-TS	B3B-EH-TV4	5.0	10.0	1,400
4	B4B-EH-TS	B4B-EH-TV4	7.5	12.5	700
5	B5B-EH-TS	B5B-EH-TV4	10.0	15.0	700
6	B6B-EH-TS	B6B-EH-TV4	12.5	17.5	700
7	B7B-EH-TS	B7B-EH-TV4	15.0	20.0	700
8	B8B-EH-TS	B8B-EH-TV4	17.5	22.5	700

Material and Finish

Pin/Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

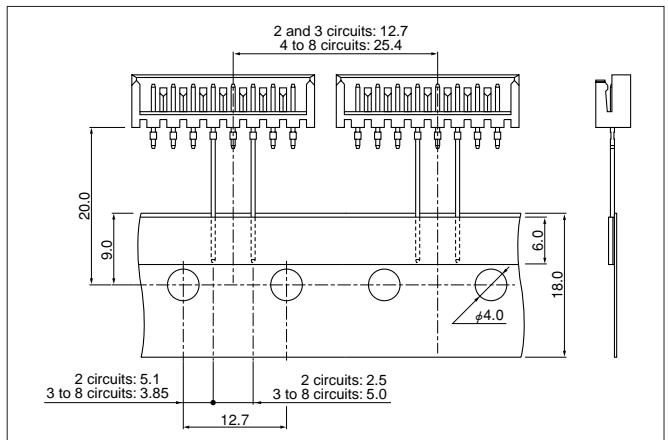
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-EH-TS-oo**

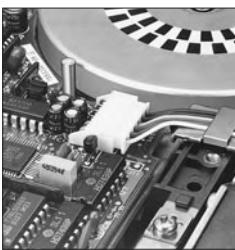
(blank)...natural (white)

K...black R...red E...blue Y...yellow M...green N...brown

Taping specifications

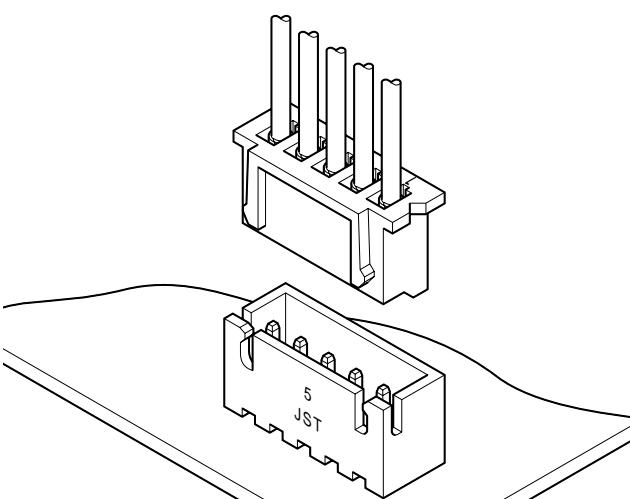


Note: Conforms to JIS C 0806.



XH CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



The XH connector was developed based on the high reliability and versatility of our NH series connectors. The connector is very small with a mounting height of 9.8mm.

- *Original folded beam contact*
 - *Box-shaped shrouded header*
 - *Header with a boss*
 - *Interchangeability*
 - *Conforming to the HA terminal*

Specifications

- Current rating: 3A AC, DC (AWG #22)
 - Voltage rating: 250V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 1,000V AC/minute
 - Applicable wire: AWG #30 to #22
 - Applicable PC board thickness: 1.6mm
 - * RoHS compliant products are published.
 - * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 - * Contact JST for details.

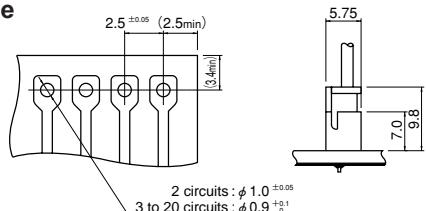
Standards



PC board layout and Assembly layout

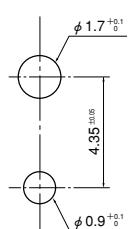
<Through-hole type (viewed from soldering side)>

Top entry type

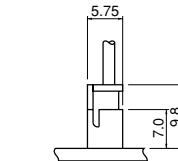
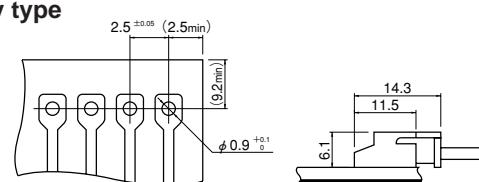


Top entry type with a boss

(1 circuit)



(2 circuits or more)

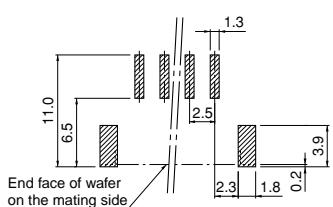


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

*1. Tolerances are non-cumulative. $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.*

<SMT type (viewed from component side)>

Side entry type



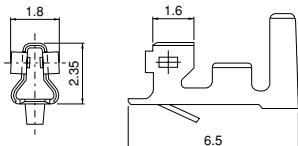
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

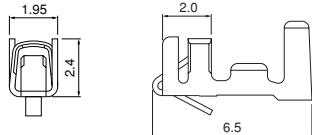
XH CONNECTOR

Contact

●Shape A



●Shape B



Model No.	Shape	Applicable Wire		Insulation O.D (mm)	Q'ty / reel
		mm ²	AWG#		
SXH-001T-P0.6N	A	0.13~0.33	26~22	1.3~1.9	5,000
SXH-001T-P0.6	B	0.08~0.33	28~22	0.9~1.9	8,000
SXH-002T-P0.6		0.05~0.13	30~26	0.9~1.3	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

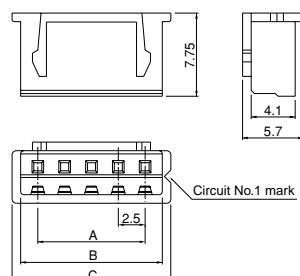
Note:

1. Contact JST if you require gold-plated contacts or contacts made of brass.
2. Contact JST also if you require shielded wires, thin wires or other special wires.
3. SXH-001T-P0.6N is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-001T-P0.6N	AP-K2N	MKS-LS • MKS-L	MK/SXH-001-06N	APLMK SXH001-06N
		*MKS-SC	SC/SXH-001-06N	APLSC SXH001-06N
SXH-001T-P0.6	AP-K2N	MKS-LS • MKS-L	MK/SXH-001-06	APLMK SXH001-06
		*MKS-SC	SC/SXH-001-06	APLSC SXH001-06

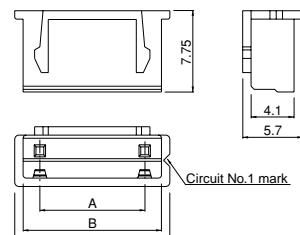
Note: *Strip-crimp applicator

Housing

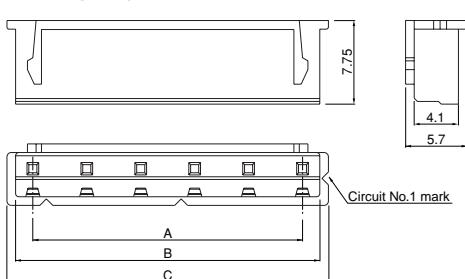


●Plugged up

(2 circuits 10.0mm pitch)



(6 circuits 5.0mm pitch)



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
1	XHP-1	—	3.2	4.8	1,000
2	XHP-2	2.5	5.7	7.3	1,000
2	XHP-2(10.0)-U	10.0	13.2	14.8	1,000
3	XHP-3	5.0	8.2	9.8	1,000
4	XHP-4	7.5	10.7	12.3	1,000
5	XHP-5	10.0	13.2	14.8	1,000
6	XHP-6	12.5	15.7	17.3	1,000
6	XHP-6(5.0)-U	25.0	28.2	29.8	1,000
7	XHP-7	15.0	18.2	19.8	1,000
8	XHP-8	17.5	20.7	22.3	1,000
9	XHP-9	20.0	23.2	24.8	1,000
10	XHP-10	22.5	25.7	27.3	1,000
11	XHP-11	25.0	28.2	29.8	1,000
12	XHP-12	27.5	30.7	32.3	1,000
13	XHP-13	30.0	33.2	34.8	1,000
14	XHP-14	32.5	35.7	37.3	1,000
15	XHP-15	35.0	38.2	39.8	1,000
16	XHP-16	37.5	40.7	42.3	1,000
20	XHP-20	47.5	50.7	52.3	500

Material

PA 6, UL94V-0, natural (white)

RoHS compliance

Note:

1. XHP-2(10.0)-U is 2 circuits 10.0mm pitch plugged up.
Not UL/CSA/TÜV approved.
2. XHP-6(5.0)-U is 6 circuits 5.0mm pitch plugged up.
Not UL/CSA/TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **XHP-1-oo**

(blank)...natural (white)

BK...black R...red E...blue Y...yellow L...lemon yellow
M...green D...orange N...brown FY...vivid yellow

<Plugged up type>

ex. **XHP-2(10.0)-U-oo**

(blank)...natural (white)

R...red E...blue

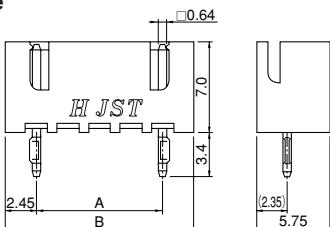
XH CONNECTOR

Through-hole type shrouded header

The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

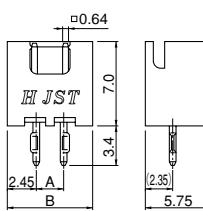
Top entry type

●plugged up

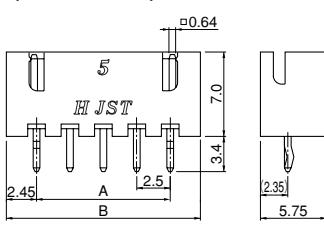


Top entry type

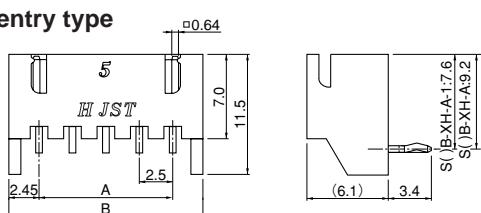
(2 circuits)



(3 to 20 circuits)



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-XH-A	S2B-XH-A-1	S2B-XH-A	2.5	7.4	1,000
2	B2(10.0)B-XH-A-U	-	-	10.0	14.9	1,000
3	B3B-XH-A	S3B-XH-A-1	S3B-XH-A	5.0	9.9	1,000
4	B4B-XH-A	S4B-XH-A-1	S4B-XH-A	7.5	12.4	500
5	B5B-XH-A	S5B-XH-A-1	S5B-XH-A	10.0	14.9	500
6	B6B-XH-A	S6B-XH-A-1	S6B-XH-A	12.5	17.4	500
7	B7B-XH-A	S7B-XH-A-1	S7B-XH-A	15.0	19.9	500
8	B8B-XH-A	S8B-XH-A-1	S8B-XH-A	17.5	22.4	250
9	B9B-XH-A	S9B-XH-A-1	S9B-XH-A	20.0	24.9	250
10	B10B-XH-A	S10B-XH-A-1	S10B-XH-A	22.5	27.4	250
11	B11B-XH-A	S11B-XH-A-1	S11B-XH-A	25.0	29.9	250
12	B12B-XH-A	S12B-XH-A-1	S12B-XH-A	27.5	32.4	200
13	B13B-XH-A	S13B-XH-A-1	S13B-XH-A	30.0	34.9	250
14	B14B-XH-A	S14B-XH-A-1	S14B-XH-A	32.5	37.4	200
15	B15B-XH-A	S15B-XH-A-1	S15B-XH-A	35.0	39.9	100
16	B16B-XH-A	-	S16B-XH-A	37.5	42.4	200
20	B20B-XH-A	-	-	47.5	52.4	100

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

This product displays (LF)(SN) on a label.

Note: B2(10.0)B-XH-A-U is 2 circuits 10.0mm pitch plugged up.

Not UL/CSA/TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. S3B-XH-A-(1)-oo

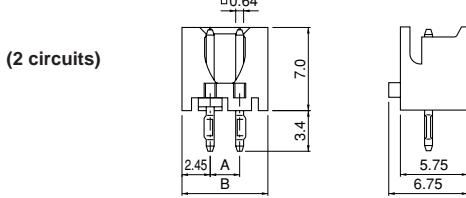
(blank)...natural (white)

BK...black R...red E...blue Y...yellow L...lemon yellow

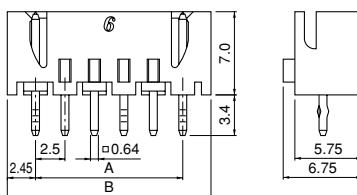
M...green D...orange N...brown FY...vivid yellow

Through-hole type shrouded header

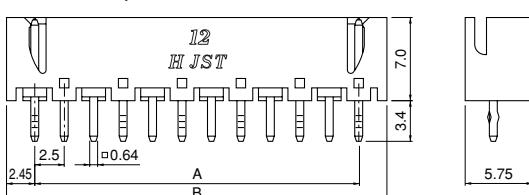
Top entry type of glass-filled nylon



(3 to 8 circuits)



(9 to 15 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	B2B-XH-2	2.5	7.4	1,000
3	B3B-XH-2	5.0	9.9	1,000
4	B4B-XH-2	7.5	12.4	500
5	B5B-XH-2	10.0	14.9	500
6	B6B-XH-2	12.5	17.4	500
7	B7B-XH-2	15.0	19.9	500
8	B8B-XH-2	17.5	22.4	250
9	B9B-XH-2	20.0	24.9	250
10	B10B-XH-2	22.5	27.4	250
11	B11B-XH-2	25.0	29.9	250
12	B12B-XH-2	27.5	32.4	250
13	B13B-XH-2	30.0	34.9	250
14	B14B-XH-2	32.5	37.4	250
15	B15B-XH-2	35.0	39.9	250

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. B2B-XH-2-oo

(blank)...natural (ivory)

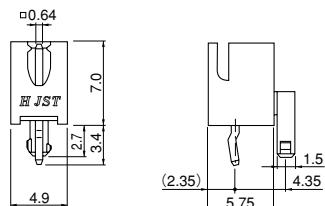
BK...black R...red E...blue Y...yellow M...green

Through-hole type shrouded header

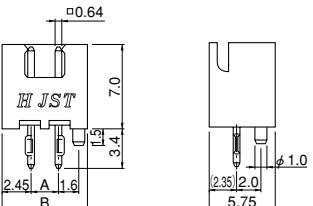
The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

Top entry type with a boss

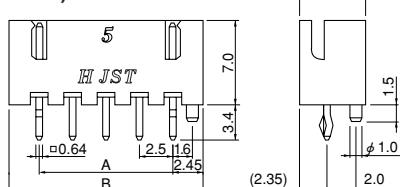
(1 circuit)



(2 circuits)



(3 to 12 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
1	*B1B-XH-AM	—	—	1,000
2	B2B-XH-AM	2.5	7.4	1,000
3	B3B-XH-AM	5.0	9.9	1,000
4	B4B-XH-AM	7.5	12.4	500
5	B5B-XH-AM	10.0	14.9	500
6	B6B-XH-AM	12.5	17.4	500
7	B7B-XH-AM	15.0	19.9	500
8	B8B-XH-AM	17.5	22.4	250
9	B9B-XH-AM	20.0	24.9	250
10	B10B-XH-AM	22.5	27.4	250
12	B12B-XH-AM	27.5	32.4	250

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: *Marked product is not UL/CSA/TÜV approved.

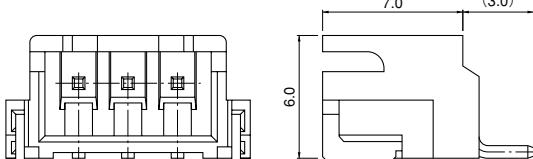
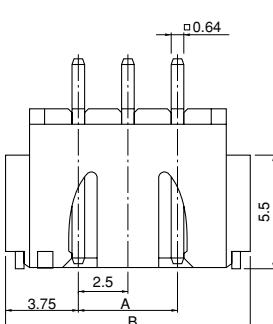
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B1B-XH-AM-oo**

(blank)...natural (white)

BK...black R...red E...blue Y...yellow L...lemon yellow
M...green

SMT type shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
3	S3B-XH-SM4-TB	5.0	12.5	500
4	S4B-XH-SM4-TB	7.5	15.0	500
6	S6B-XH-SM4-TB	12.5	20.0	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S3B-XH-SM4-oo-TB**

(blank)...natural (ivory)

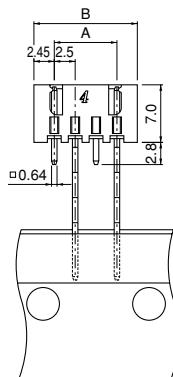
M...green R...red E...blue L...lemon yellow

XH CONNECTOR

Through-hole type shrouded header on radial-tape

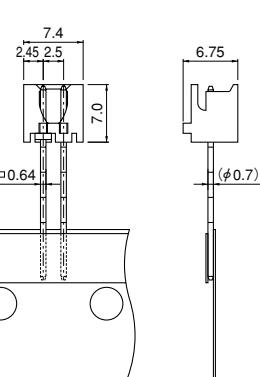
TV4 type

(3 to 4 circuits)



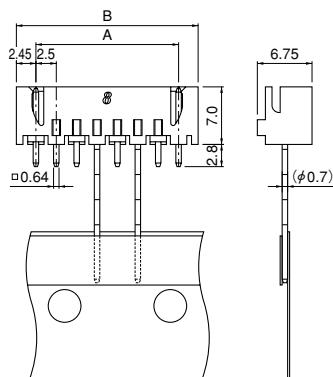
2-TV4 type

(2 circuits)



2-TV4 type

(3 to 8 circuits)



Circuits	Model No.		Dimensions (mm)		Q'ty/box
	TV4	2-TV4	A	B	
2	—	B2B-XH-2-TV4	—	—	1,000
3	B3B-XH-TV4	B3B-XH-2-TV4	5.0	9.9	1,000
4	B4B-XH-TV4	B4B-XH-2-TV4	7.5	12.4	500
5	—	B5B-XH-2-TV4	10.0	14.9	500
6	—	B6B-XH-2-TV4	12.5	17.4	500
7	—	B7B-XH-2-TV4	15.0	19.9	500
8	—	B8B-XH-2-TV4	17.5	22.4	500

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: TV4 type/ PA 66, UL94V-0, natural (white)
2-TV4 type/ Glass-filled PA 66, UL94V-0, natural (ivory)

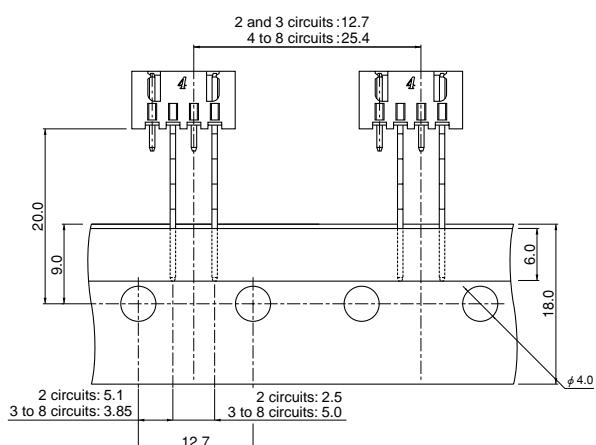
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

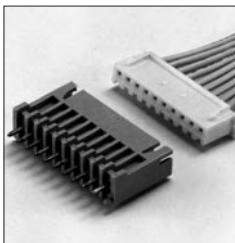
ex. **B2B-XH-2-TV4-oo**

(blank)...natural (TV4 type/white, 2-TV4 type/ivory)
C...black (glass-filled) BK...black R...red E...blue Y...yellow
M...green

Taping specification

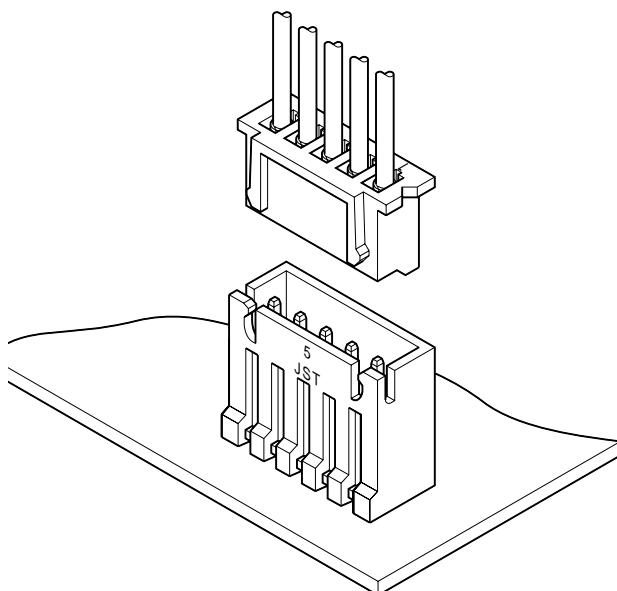


Note: Conforms to JIS C 0806.



XH CONNECTOR <High box type>

2.5mm pitch/Disconnectable Crimp style connectors



**XH connector high box type, with
17.0mm mounting height and with 5.8mm
thickness.**

- Header for 2.5mm pitch XH connector for use specifically with resin coated ("potted") PC boards
- Interchangeability

Specifications

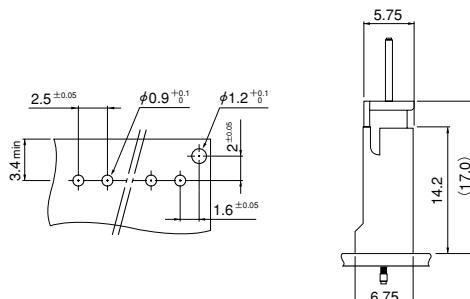
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

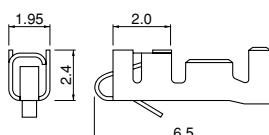
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SXH-001T-P0.6	0.08~0.33	28~22	1.2~1.9	8,000
SXH-002T-P0.6	0.05~0.13	30~26	0.9~1.3	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

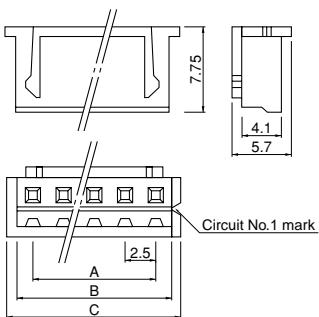
- Note: 1. Contact JST if you require gold-plated contacts or contacts made of brass.
2. Contact JST also if you require shielded wires, thin wires or other special wires.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-001T-P0.6	AP-K2N	MKS-LS • MKS-L	MK/SXH-001-06	APLMK SXH001-06
		*MKS-SC	SC/SXH-001-06	APLSC SXH001-06

Note: *Strip-crimp applicator

XH CONNECTOR<High box type>

Housing



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
2	XHP-2	2.5	5.7	7.3	1,000
3	XHP-3	5.0	8.2	9.8	1,000
4	XHP-4	7.5	10.7	12.3	1,000
5	XHP-5	10.0	13.2	14.8	1,000
6	XHP-6	12.5	15.7	17.3	1,000
7	XHP-7	15.0	18.2	19.8	1,000
8	XHP-8	17.5	20.7	22.3	1,000
9	XHP-9	20.0	23.2	24.8	1,000
10	XHP-10	22.5	25.7	27.3	1,000

Material

PA 6, UL94V-0, natural (white)

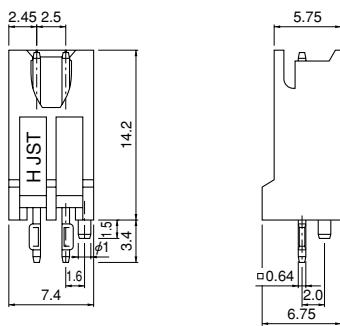
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XHP-2-oo**

(blank)...natural (white)
BK...black R...red E...blue Y...yellow M...green

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	BH2B-XH-2	2.5	7.4	700
3	BH3B-XH-2	5.0	9.9	500
4	BH4B-XH-2	7.5	12.4	300
5	BH5B-XH-2	10.0	14.9	300
6	BH6B-XH-2	12.5	17.4	250
7	BH7B-XH-2	15.0	19.9	200
8	BH8B-XH-2	17.5	22.4	150
9	BH9B-XH-2	20.0	24.9	150
10	BH10B-XH-2	22.5	27.4	150

Material and Finish

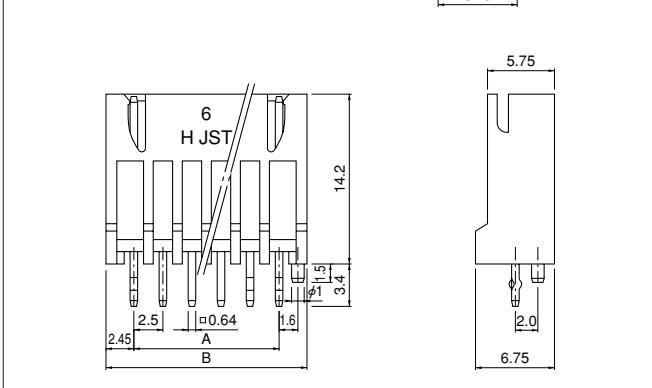
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH2B-XH-2-oo**

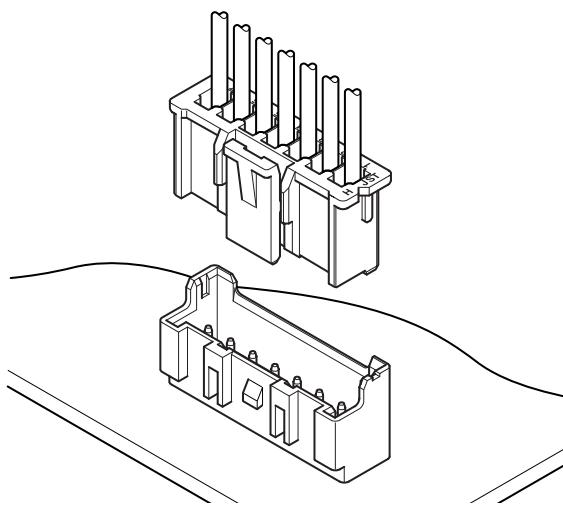
(blank)...natural (ivory)
R...red C...black E...blue Y...yellow M...green





XA CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



- Locking device
- Solder crack preventive material
- Low insertion force
- Insertion guide mechanism
- Applicable to automatic board mounting machine
- Polarizing boss

Specifications

- Current rating: 3A AC DC (AWG #22, #20)
- Voltage rating: 250V AC DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

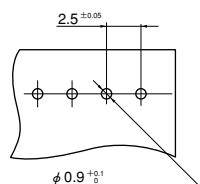
△ R9851220

PC board layout (viewed from component side) and Assembly layout

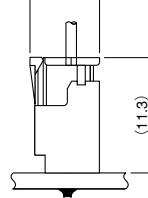
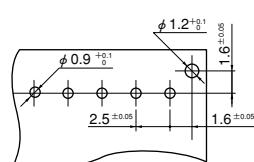
⟨Through-hole type⟩

Top entry type

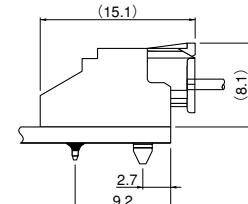
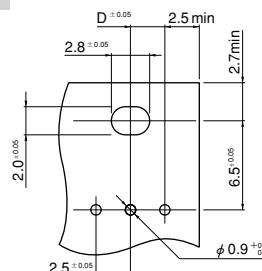
without a boss



with a boss



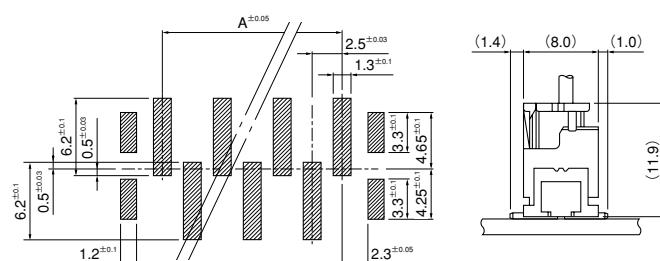
Side entry type



Dimension D: Refer to the Model No. chart of header side entry type.

⟨SMT type⟩

Top entry type

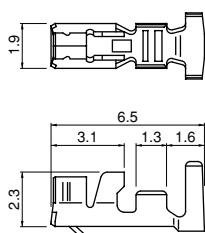


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

XA CONNECTOR

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SXA-001T-P0.6	0.08 ~ 0.33	28~22	1.2~1.9	8,000
SXA-01T-P0.6	0.22 ~ 0.5	24~20	1.5~1.9	8,000
SXA-001T-P0.6L	0.13 ~ 0.33	26~22	1.3~1.7	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note 1. SXA-001T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration.

The crimp height is different from the standard contact.

2. Contact JST for gold-plated products.

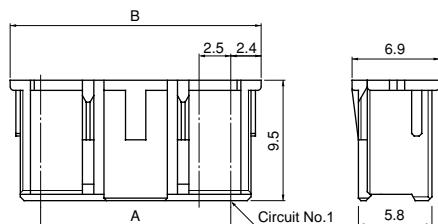
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-001T-P0.6L	AP-K2N	MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

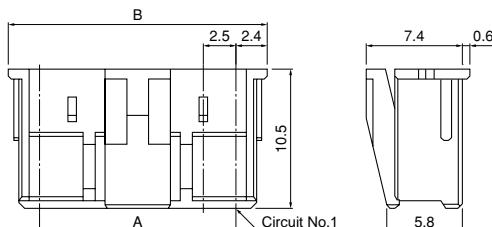
Note: *Strip-crimp applicator

Housing

Standard type



Retainer mountable type



Circuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	XAP-02V-1	XARP-02V	2.5	7.3	1,000	1,000
3	XAP-03V-1	XARP-03V	5.0	9.8	1,000	1,000
4	XAP-04V-1	XARP-04V	7.5	12.3	1,000	1,000
5	XAP-05V-1	XARP-05V	10.0	14.8	1,000	1,000
6	XAP-06V-1	XARP-06V	12.5	17.3	1,000	1,000
7	XAP-07V-1	XARP-07V	15.0	19.8	1,000	1,000
8	XAP-08V-1	XARP-08V	17.5	22.3	1,000	1,000
9	XAP-09V-1	XARP-09V	20.0	24.8	1,000	1,000
10	XAP-10V-1	XARP-10V	22.5	27.3	1,000	1,000
11	XAP-11V-1	XARP-11V	25.0	29.8	1,000	1,000
12	XAP-12V-1	XARP-12V	27.5	32.3	1,000	1,000
13	XAP-13V-1	XARP-13V	30.0	34.8	1,000	1,000
14	XAP-14V-1	XARP-14V	32.5	37.3	500	1,000
15	XAP-15V-1	XARP-15V	35.0	39.8	500	1,000
18	—	XARP-18V	42.5	47.3	—	500
20	XAP-20V-1	—	47.5	52.3	500	—

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

<Standard type>

ex. **XAP-02V-1-oo**

(blank)...natural (white)

K...black R...red E...blue Y...yellow L...lemon yellow

M...green O...orange N...brown H...gray P...purple

LE...light blue PK...pink FY...vivid yellow Z...ivory

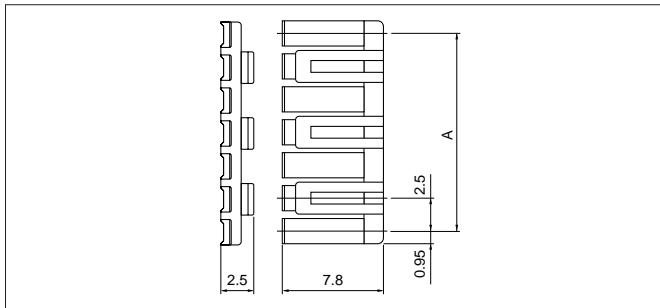
<Retainer mountable type>

ex. **XARP-02V-oo**

(blank)...natural (white)

K...black R...red E...blue L...lemon yellow

Retainer



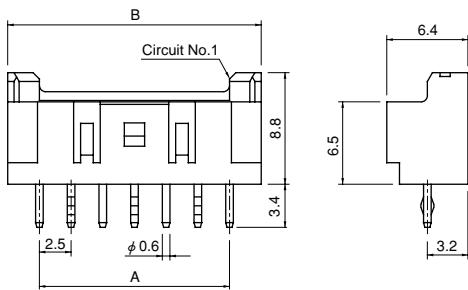
Material

Glass-filled PA 66, UL94V-0, natural (ivory)

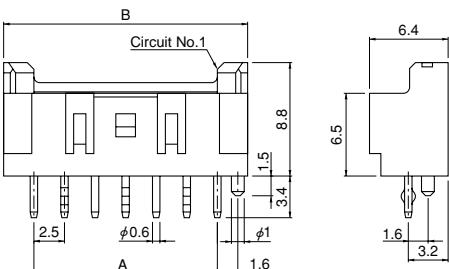
RoHS compliance

Through-hole type shrouded header

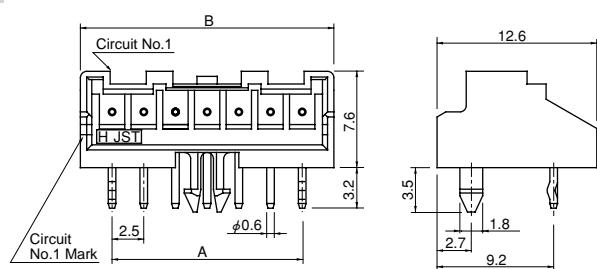
Top entry type without a boss



Top entry type with a boss



Side entry type with a hook



Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000
13	XMS-13V	30.0	1,000
14	XMS-14V	32.5	1,000
15	XMS-15V	35.0	1,000

Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type	With a boss	A	B	
2	B02B-XASK-1	B02B-XASK-1-A	2.5	7.5	1,000
3	B03B-XASK-1	B03B-XASK-1-A	5.0	10.0	400
4	B04B-XASK-1	B04B-XASK-1-A	7.5	12.5	400
5	B05B-XASK-1	B05B-XASK-1-A	10.0	15.0	400
6	B06B-XASK-1	B06B-XASK-1-A	12.5	17.5	400
7	B07B-XASK-1	B07B-XASK-1-A	15.0	20.0	250
8	B08B-XASK-1	B08B-XASK-1-A	17.5	22.5	250
9	B09B-XASK-1	B09B-XASK-1-A	20.0	25.0	250
10	B10B-XASK-1	B10B-XASK-1-A	22.5	27.5	250
11	B11B-XASK-1	B11B-XASK-1-A	25.0	30.0	200
12	B12B-XASK-1	B12B-XASK-1-A	27.5	32.5	200
13	B13B-XASK-1	B13B-XASK-1-A	30.0	35.0	100
14	B14B-XASK-1	B14B-XASK-1-A	32.5	37.5	100
15	B15B-XASK-1	B15B-XASK-1-A	35.0	40.0	100
20	B20B-XASK-1	B20B-XASK-1-A	47.5	52.5	100

Material and Finish			
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)			

RoHS compliance This product displays (LF)(SN) on a label.
Note: Contact JST for gold-plated products.

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	D	
2	S02B-XASS-1	2.5	7.5	1.25	250
3	S03B-XASK-1	5.0	10.0	2.50	250
4	S04B-XASK-1	7.5	12.5	3.75	200
5	S05B-XASK-1	10.0	15.0	5.00	200
6	S06B-XASK-1	12.5	17.5	6.25	200
7	S07B-XASK-1	15.0	20.0	7.50	200
8	S08B-XASK-1	17.5	22.5	8.75	100
9	S09B-XASK-1	20.0	25.0	10.00	100
10	S10B-XASK-1	22.5	27.5	11.25	100
11	S11B-XASK-1	25.0	30.0	12.50	100
12	S12B-XASK-1	27.5	32.5	13.75	100
13	S13B-XASK-1	30.0	35.0	15.00	100
14	S14B-XASK-1	32.5	37.5	16.25	100

Material and Finish			
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)			

RoHS compliance This product displays (LF)(SN) on a label.
Note: 1. Dimension D...See PC board layout.
2. Contact JST for gold-plated products.

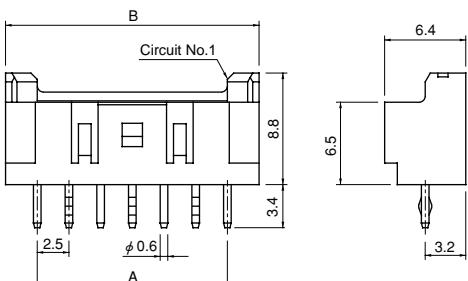
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. S02B-XASK-1
S...natural (ivory)
K...black R...red E...blue M...green Y...yellow

XA CONNECTOR

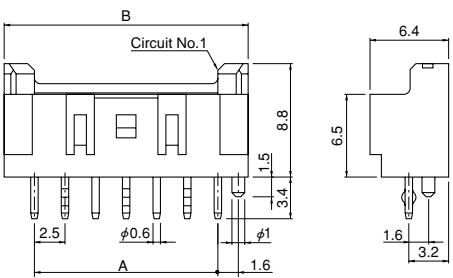
Through-hole type shrouded header

N type

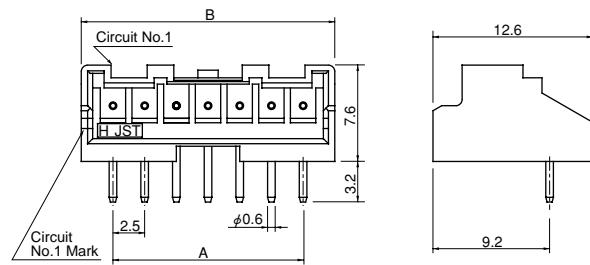
Top entry type without a boss



Top entry type with a boss



Side entry type without a hook



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type		A	B		
	Without a boss	With a boss				
2	B02B-XASK-1N	B02B-XASK-1N-A	2.5	7.5	1,000	
3	B03B-XASK-1N	B03B-XASK-1N-A	5.0	10.0	400	
4	B04B-XASK-1N	B04B-XASK-1N-A	7.5	12.5	400	
5	B05B-XASK-1N	B05B-XASK-1N-A	10.0	15.0	400	
6	B06B-XASK-1N	B06B-XASK-1N-A	12.5	17.5	400	
7	B07B-XASK-1N	B07B-XASK-1N-A	15.0	20.0	250	
8	B08B-XASK-1N	B08B-XASK-1N-A	17.5	22.5	250	
9	B09B-XASK-1N	B09B-XASK-1N-A	20.0	25.0	250	
10	B10B-XASK-1N	B10B-XASK-1N-A	22.5	27.5	250	
11	B11B-XASK-1N	B11B-XASK-1N-A	25.0	30.0	200	
12	B12B-XASK-1N	B12B-XASK-1N-A	27.5	32.5	200	
13	B13B-XASK-1N	B13B-XASK-1N-A	30.0	35.0	100	
14	B14B-XASK-1N	B14B-XASK-1N-A	32.5	37.5	100	
15	B15B-XASK-1N	B15B-XASK-1N-A	35.0	40.0	100	
18	B18B-XASK-1N	—	42.5	47.5	100	

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Not TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-XASK-1N-A**

S...natural (white)

K...black R...red E...blue Y...yellow L...lemon yellow
M...green O...orange N...brown H...gray P...purple
LE...light blue PK...pink FY...vivid yellow

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	S02B-XASS-1N-BN	2.5	7.5	250
3	S03B-XASS-1N-BN	5.0	10.0	250
4	S04B-XASS-1N-BN	7.5	12.5	200
5	S05B-XASS-1N-BN	10.0	15.0	200
6	S06B-XASS-1N-BN	12.5	17.5	200
7	S07B-XASS-1N-BN	15.0	20.0	200
8	S08B-XASS-1N-BN	17.5	22.5	100
9	S09B-XASS-1N-BN	20.0	25.0	100
10	S10B-XASS-1N-BN	22.5	27.5	100
11	S11B-XASS-1N-BN	25.0	30.0	100
12	S12B-XASS-1N-BN	27.5	32.5	100
13	S13B-XASS-1N-BN	30.0	35.0	100
14	S14B-XASS-1N-BN	32.5	37.5	100

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (white)

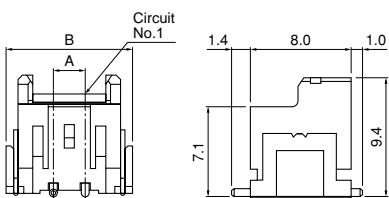
RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. As for side entry type, we recommend to use a product with a boss (hook) because stress is applied directly to fillet part when handling the wire. When using the side entry type product without a boss (hook), please handle the wire with care.

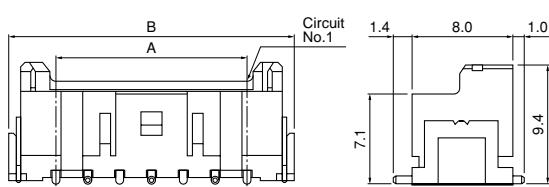
2. Not TÜV approved.

SMT type shrouded header

(2 circuits)



(3 to 15 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		Top entry type	A	
2	BM02B-XASS-TF		2.5	10.0
3	BM03B-XASS-TF		5.0	12.5
4	BM04B-XASS-TF		7.5	15.0
5	BM05B-XASS-TF		10.0	17.5
6	BM06B-XASS-TF		12.5	20.0
7	BM07B-XASS-TF		15.0	22.5
8	BM08B-XASS-TF		17.5	25.0
9	BM09B-XASS-TF		20.0	27.5
12	BM12B-XASS-TF		27.5	35.0
13	BM13B-XASS-TF		30.0	37.5
15	BM15B-XASS-TF		35.0	42.5

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

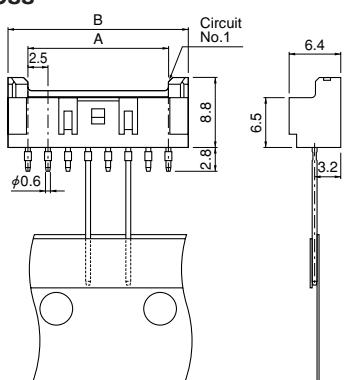
RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **BM02B-XASS-TF**
S...natural
K...black R...red E...blue M...green D...orange
L...lemon yellow

Through-hole type shrouded header on radial-tape

Top entry type without a boss



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type without a boss	Top entry type with a boss	A	B	
2	B02B-XASS-1-T	—	2.5	7.5	1,000
3	B03B-XASS-1-T	B03B-XASS-1-A-T	5.0	10.0	1,000
4	B04B-XASS-1-T	B04B-XASS-1-A-T	7.5	12.5	500
5	B05B-XASS-1-T	B05B-XASS-1-A-T	10.0	15.0	500
6	B06B-XASS-1-T	B06B-XASS-1-A-T	12.5	17.5	500
7	B07B-XASS-1-T	B07B-XASS-1-A-T	15.0	20.0	500
8	B08B-XASS-1-T	B08B-XASS-1-A-T	17.5	22.5	500

Material and Finish

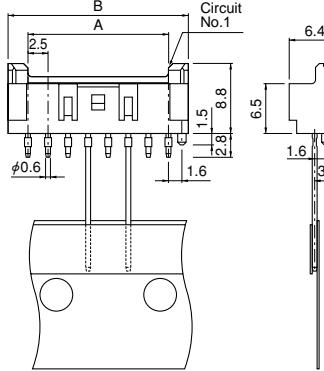
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

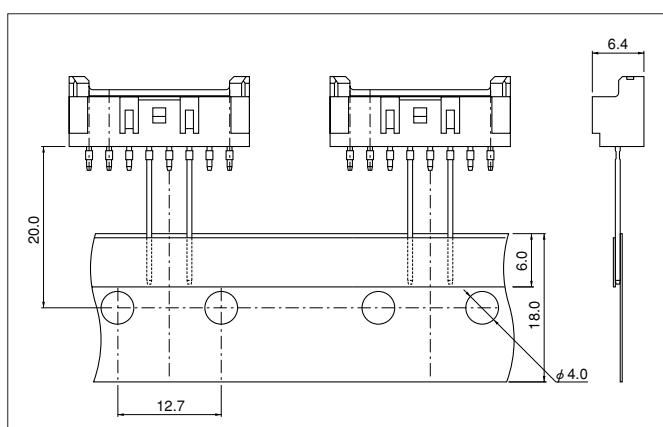
This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **B03B-XASS-1-A-T**
S...natural (ivory)
R...red E...blue M...green

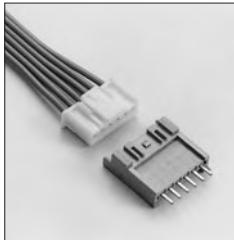
Top entry type with a boss



Taping specifications

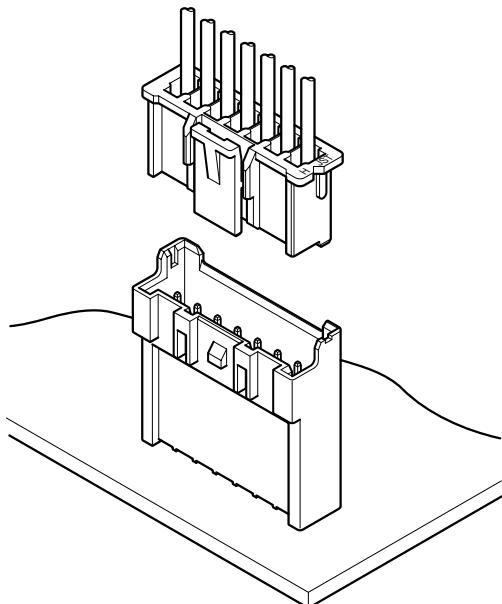


Note: Conforms to JIS C 0806.



XA CONNECTOR<High box type>

2.5mm pitch/Disconnectable Crimp style connectors



**XA connector high box type, with
19.5mm mounting height and with 6.9mm
thickness.**

- **Header for 2.5mm pitch XA connector for use specifically with resin coated ("potted") PC boards**
- **Interchangeability**

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

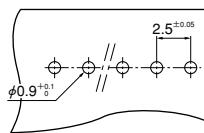
Recognized E60389

Certified LR20812

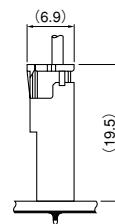
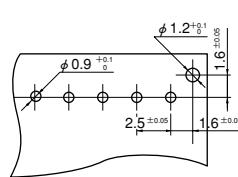
R9851220

PC board layout (viewed from component side) and Assembly layout

Without a boss



With a boss

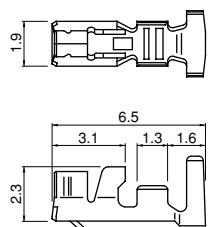


Note:1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

XA CONNECTOR<High box type>

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SXA-001T-P0.6	0.08 ~ 0.33	28~22	1.2~1.9	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

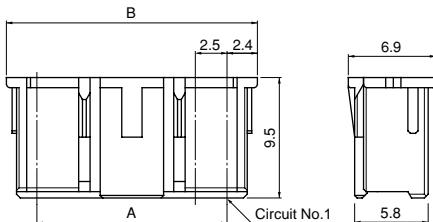
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L *MKS-SC	MK/SXA/M-001-06 SC/SXA/M-001-06	APLMK SXA/M001-06 APLSC SXA/M001-06

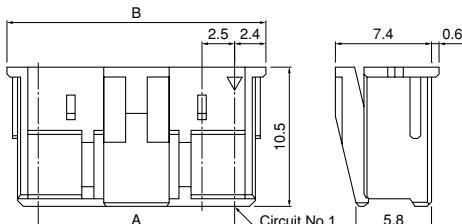
Note: *Strip-crimp applicator

Housing

Standard type



Retainer mountable type



Circuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	XAP-02V-1	XARP-02V	2.5	7.3	1,000	1,000
3	XAP-03V-1	XARP-03V	5.0	9.8	1,000	1,000
4	XAP-04V-1	XARP-04V	7.5	12.3	1,000	1,000
5	XAP-05V-1	XARP-05V	10.0	14.8	1,000	1,000
6	XAP-06V-1	XARP-06V	12.5	17.3	1,000	1,000
7	XAP-07V-1	XARP-07V	15.0	19.8	1,000	1,000
8	XAP-08V-1	XARP-08V	17.5	22.3	1,000	1,000
9	XAP-09V-1	XARP-09V	20.0	24.8	1,000	1,000
10	XAP-10V-1	XARP-10V	22.5	27.3	1,000	1,000
11	XAP-11V-1	XARP-11V	25.0	29.8	1,000	1,000
12	XAP-12V-1	XARP-12V	27.5	32.3	1,000	1,000
13	XAP-13V-1	XARP-13V	30.0	34.8	1,000	1,000
14	XAP-14V-1	XARP-14V	32.5	37.3	500	1,000
15	XAP-15V-1	XARP-15V	35.0	39.8	500	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

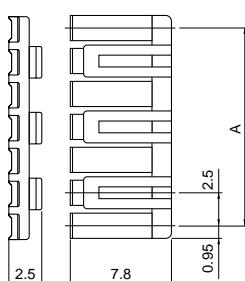
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XAP-02V-1-oo**

(blank)...natural (white)

K...black R...red E...blue M...green Y...yellow

Retainer



Material

Glass-filled PA 66, UL94V-0, natural (ivory)

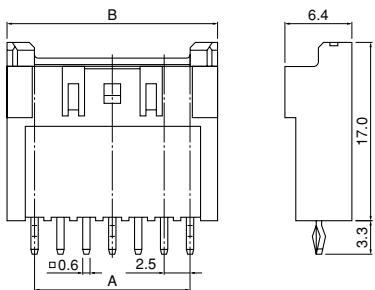
RoHS compliance

Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000
13	XMS-13V	30.0	1,000
14	XMS-14V	32.5	1,000
15	XMS-15V	35.0	1,000

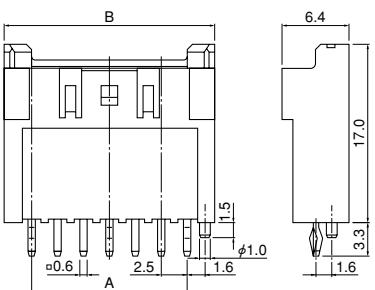
XA CONNECTOR(High box type)

Shrouded header

Without a boss



With a boss



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	BH02B-XASK-BN	BH02B-XASK	2.5	7.5	400
3	BH03B-XASK-BN	BH03B-XASK	5.0	10.0	400
4	BH04B-XASK-BN	BH04B-XASK	7.5	12.5	300
5	BH05B-XASK-BN	BH05B-XASK	10.0	15.0	300
6	BH06B-XASK-BN	BH06B-XASK	12.5	17.5	200
7	BH07B-XASK-BN	BH07B-XASK	15.0	20.0	200
8	BH08B-XASK-BN	BH08B-XASK	17.5	22.5	200
9	BH09B-XASK-BN	BH09B-XASK	20.0	25.0	150
10	BH10B-XASK-BN	BH10B-XASK	22.5	27.5	150
11	BH11B-XASK-BN	BH11B-XASK	25.0	30.0	100
12	BH12B-XASK-BN	BH12B-XASK	27.5	32.5	100
13	BH13B-XASK-BN	BH13B-XASK	30.0	35.0	100
14	BH14B-XASK-BN	BH14B-XASK	32.5	37.5	100
15	BH15B-XASK-BN	BH15B-XASK	35.0	40.0	100

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

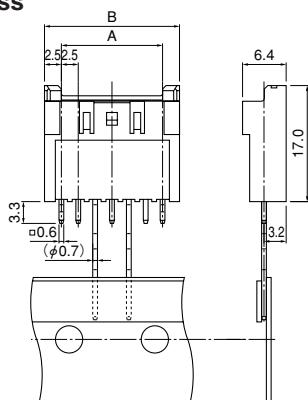
ex. **BH02B-XASK-BN**

S...natural (ivory)

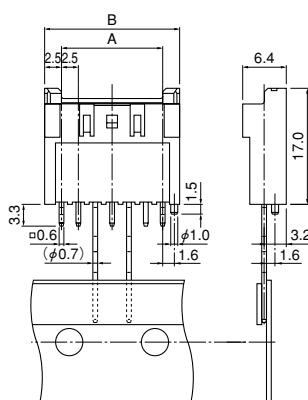
K...black R...red M...green Y...yellow

Shrouded header on radial-tape

Without a boss



With a boss



Circuits	Model No.		Dimensions (mm)		Qty/box
	Without a boss	With a boss	A	B	
2	BH02B-XASS-BN-T	BH02B-XASS-T	2.5	7.5	1,000
3	BH03B-XASS-BN-T	BH03B-XASS-T	5.0	10.0	1,000
4	BH04B-XASS-BN-T	BH04B-XASS-T	7.5	12.5	500
5	BH05B-XASS-BN-T	BH05B-XASS-T	10.0	15.0	500
6	BH06B-XASS-BN-T	BH06B-XASS-T	12.5	17.5	500
7	BH07B-XASS-BN-T	BH07B-XASS-T	15.0	20.0	500
8	BH08B-XASS-BN-T	BH08B-XASS-T	17.5	22.5	500

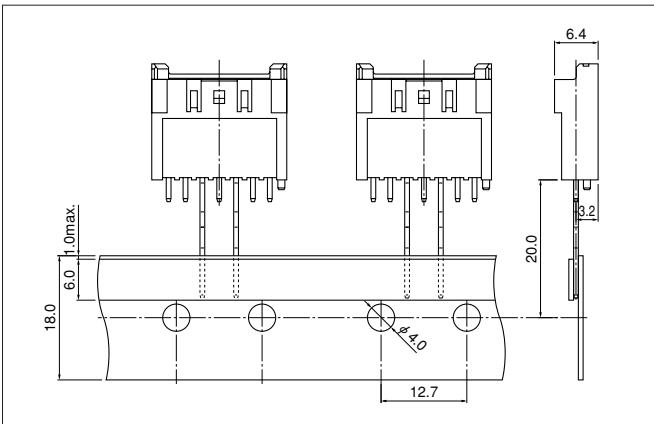
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

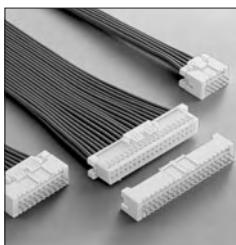
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

Taping specifications

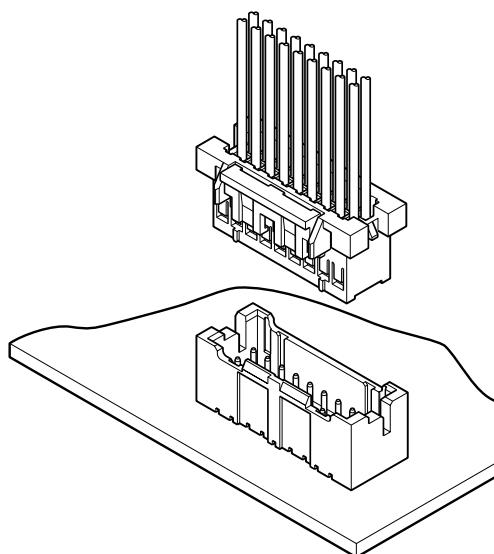


Note: Conforms to JIS C 0806.



XAD CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



Double-row construction connector with secure locking device.

- **Secure locking device**
- **Solder crack preventive material**
- **Polarizing boss**
- **Mis-insertion preventive design**

Specifications

- Current rating: 3A AC, DC (AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

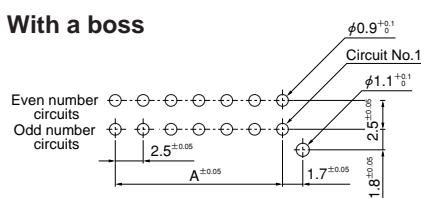
■ Certified LR20812

△ R9851219

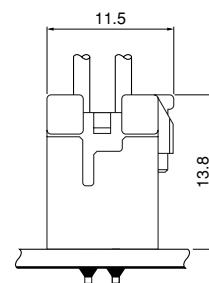
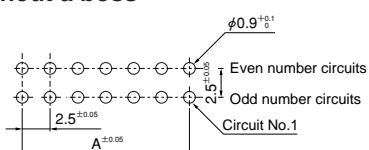
PC board layout (viewed from component side) and Assembly layout

Top entry type

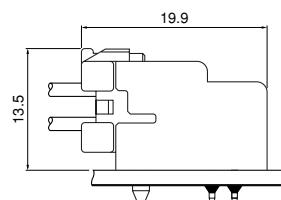
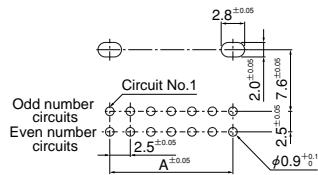
With a boss



Without a boss



Side entry type

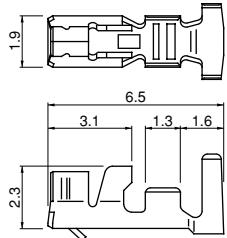


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

XAD CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	8,000
SXA-001T-P0.6	0.08~0.33	28~22	1.2~1.9	8,000
SXA-001T-P0.6L	0.13~0.33	26~22	1.3~1.7	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

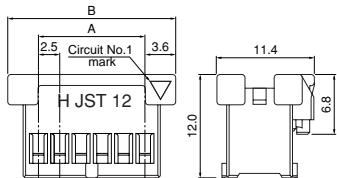
Note: 1. SXA-001T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.
2. Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

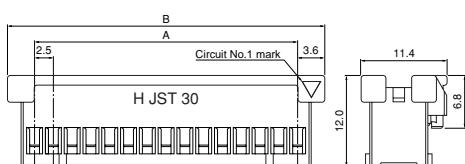
Note: *Strip-crimp applicator

Housing

(8 to 16 circuits)



(18 to 40 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	XADRP-08V	7.5	14.7	1,000
10	XADRP-10V	10.0	17.2	1,000
12	XADRP-12V	12.5	19.7	1,000
14	XADRP-14V	15.0	22.2	1,000
16	XADRP-16V	17.5	24.7	1,000
18	XADRP-18V	20.0	27.2	1,000
20	XADRP-20V	22.5	29.7	500
22	XADRP-22V	25.0	32.2	500
24	XADRP-24V	27.5	34.7	500
26	XADRP-26V	30.0	37.2	500
28	XADRP-28V	32.5	39.7	500
30	XADRP-30V	35.0	42.2	500
32	XADRP-32V	37.5	44.7	500
34	XADRP-34V	40.0	47.2	500
36	XADRP-36V	42.5	49.7	250
40	XADRP-40V	47.5	54.7	250

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Note: Contact JST if retainers are required.

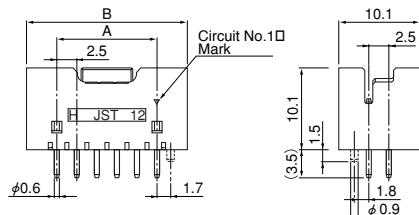
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XADRP-08V-oo**

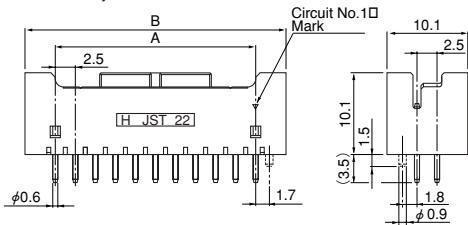
(blank)...natural (white)
K...black R...red E...blue O...orange M...green
L...lemon yellow PK...pink

Shrouded header

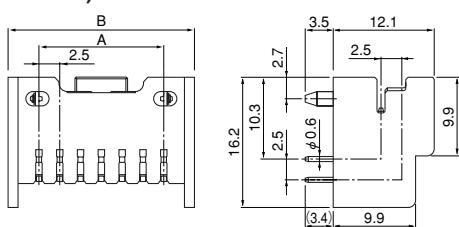
Top entry type (8 to 16 circuits)



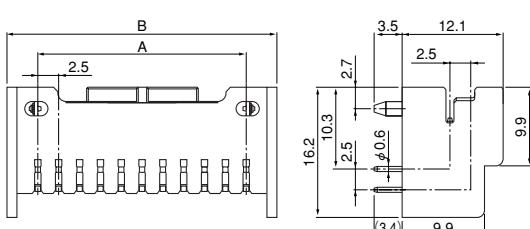
(18 to 40 circuits)



Side entry type (8 to 16 circuits)



(18 to 26 circuits)



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type		Side entry type	A		
	Without a boss	With a boss				
8	B08B-XADSS-N	B08B-XADSS-N-A	S08B-XADSS-N	7.5	15.0	200
10	B10B-XADSS-N	B10B-XADSS-N-A	S10B-XADSS-N	10.0	17.5	200
12	B12B-XADSS-N	B12B-XADSS-N-A	S12B-XADSS-N	12.5	20.0	200
14	B14B-XADSS-N	B14B-XADSS-N-A	S14B-XADSS-N	15.0	22.5	150
16	B16B-XADSS-N	B16B-XADSS-N-A	S16B-XADSS-N	17.5	25.0	150
18	B18B-XADSS-N	B18B-XADSS-N-A	S18B-XADSS-N	20.0	27.5	150
20	B20B-XADSS-N	B20B-XADSS-N-A	S20B-XADSS-N	22.5	30.0	100
22	B22B-XADSS-N	B22B-XADSS-N-A	—	25.0	32.5	100
24	B24B-XADSS-N	B24B-XADSS-N-A	—	27.5	35.0	100
26	B26B-XADSS-N	B26B-XADSS-N-A	S26B-XADSS-N	30.0	37.5	100
28	B28B-XADSS-N	B28B-XADSS-N-A	—	32.5	40.0	100
30	B30B-XADSS-N	B30B-XADSS-N-A	—	35.0	42.5	50
32	B32B-XADSS-N	B32B-XADSS-N-A	—	37.5	45.0	50
34	B34B-XADSS-N	B34B-XADSS-N-A	—	40.0	47.5	50
36	B36B-XADSS-N	B36B-XADSS-N-A	—	42.5	50.0	50
40	B40B-XADSS-N	B40B-XADSS-N-A	—	47.5	55.0	50

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Note: Contact JST for the headers with gold-plated pins.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

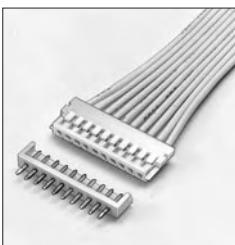
For availability, delivery and minimum order quantity, contact JST.

ex. **B08B-XADSS-N**

S...natural (white)

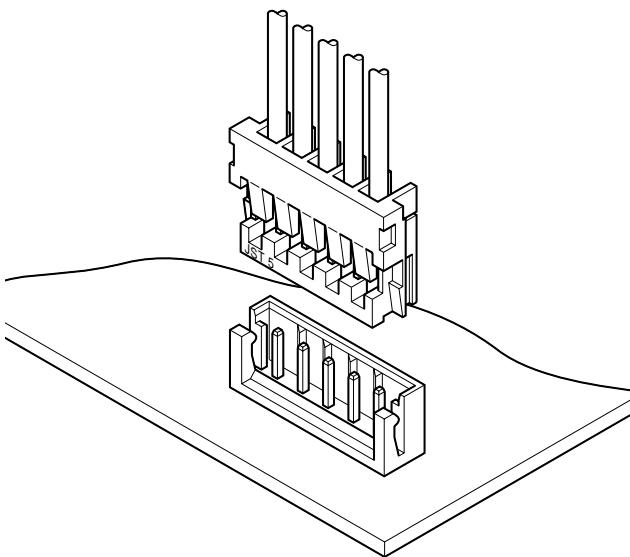
K...black R...red E...blue O...orange M...green

L...lemon yellow PK...pink



HR CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



- Thin design
- High reliability
- Interchangeability

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
- Applicable PC board thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

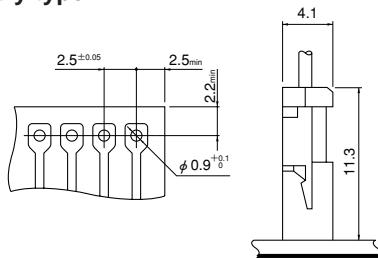
Standards

■ Recognized E60389

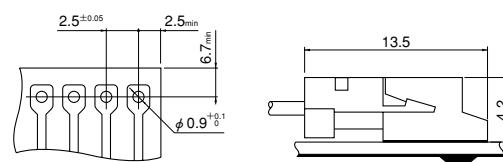
■ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

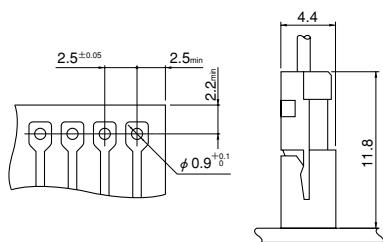
Top entry type



Side entry type



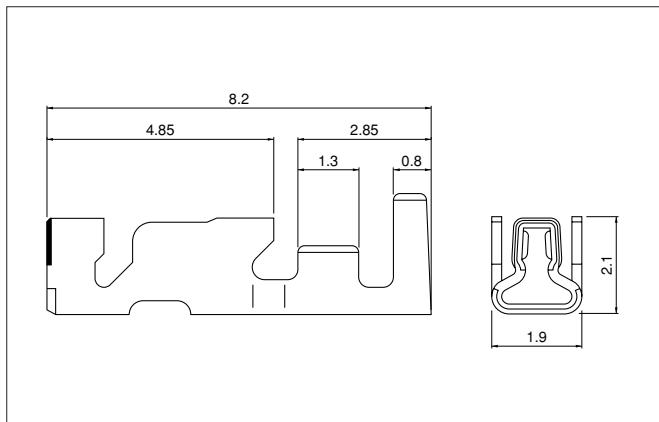
Top entry type on radial-tape



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SHR-001T-P0.6	0.13~0.33	26~22	1.3~1.7	9,000

Material and Finish

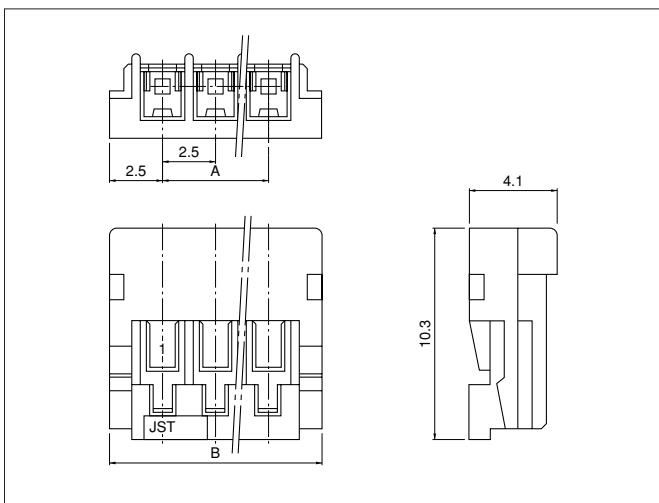
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHR-001T-P0.6	AP-K2N	MKS-L *MKS-SC	MK/SHR/MR-001-06 SC/SHR/MR-001-06	APLMK SHR/MR001-06 APLSC SHR/MR001-06

Note: *Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	HRP-02-S	2.5	7.5	2,000
3	HRP-03-S	5.0	10.0	2,000
4	HRP-04-S	7.5	12.5	1,000
5	HRP-05-S	10.0	15.0	1,000
6	HRP-06-S	12.5	17.5	1,000
7	HRP-07-S	15.0	20.0	500
8	HRP-08-S	17.5	22.5	500
9	HRP-09-S	20.0	25.0	500
10	HRP-10-S	22.5	27.5	500
11	HRP-11-S	25.0	30.0	500
12	HRP-12-S	27.5	32.5	500
13	HRP-13-S	30.0	35.0	250

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **HRP-02-S**

S...natural (white)

K...black R...red TR...tomato red E...blue

L...lemon yellow M...green N...brown O...orange P...purple

PK...pink LE...light blue Y...yellow FY...vivid yellow H...gray

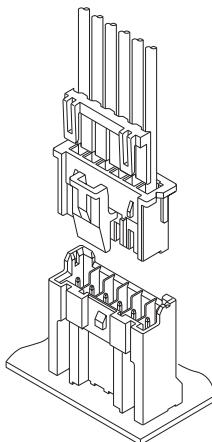
Shrouded header

The shrouded headers are interchangeable with those of the EH crimp style and HR insulation displacement connectors.



PXA CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



Secondary retainer mountable 2.5mm pitch high-box type, with 20.5mm mounting height.

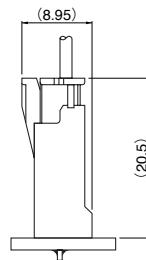
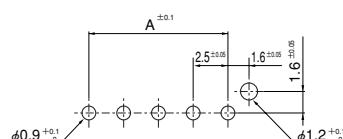
Fully shrouded header has the walls between every circuit to consider as the structure against vibration or prying.

- **Secure locking device**
- **Fully shrouded header**
- **Header for use specifically with resin coated ("potted") PC boards**
- **PC board layout is exactly same as XA connector**
- **Secondary retainer**

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

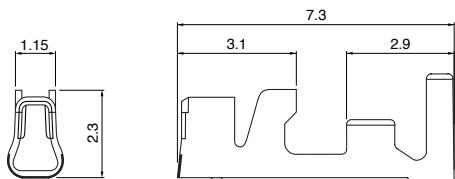
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPXA-001T-P0.6	0.13~0.33	26~22	1.2~1.9	7,000

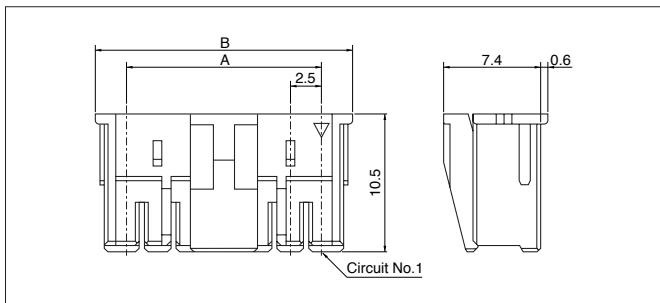
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPXA-001T-P0.6	AP-K2N	MKS-L	MK/SPXA-001-06	APLMK SPXA001-06

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty /bag
		A	B	
2	PXARP-02V	2.5	7.3	1,000
3	PXARP-03V	5.0	9.8	1,000
6	PXARP-06V	12.5	17.3	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

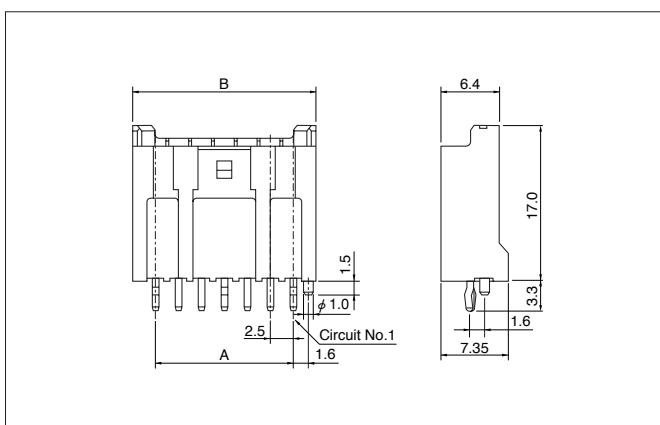
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PXARP-02V-00**

(blank)...natural (white)

K...black R...red E...blue

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty /box
		A	B	
2	BH02B-PXASK	2.5	7.5	400
3	BH03B-PXASK	5.0	10.0	400
6	BH06B-PXASK	12.5	17.5	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

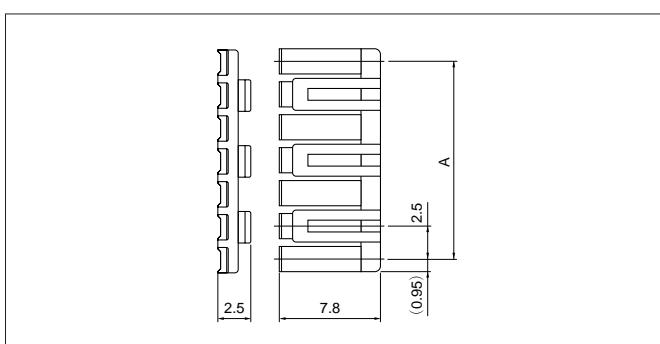
This product displays (LF)(SN) on a label.
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH02B-PXASK**

S...natural (ivory)

K...black R...red E...blue

Retainer



Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
6	XMS-06V	12.5	1,000

Material

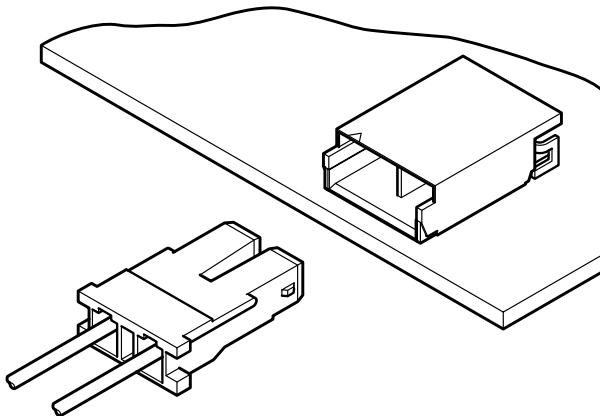
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance



BHS CONNECTOR

3.5mm pitch/Disconnectable Crimp style connectors



- Low profile
- SMT configuration
- Applicable to special wires
- Housing lock also serves as polarizing device
- Adopt wide large for socket contact

Specifications

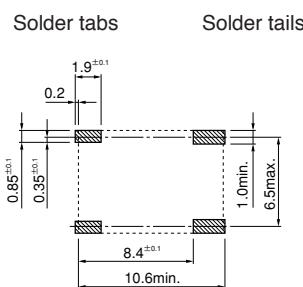
- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 1,400V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: AWG #28 to #24
Insulation O.D./0.9 to 1.7mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

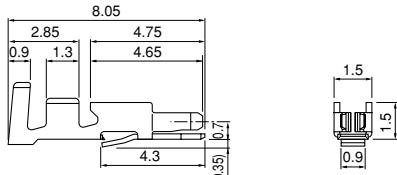
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.1mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SBHS-002T-P0.5A	0.08~0.22	28~24	0.9~1.7	10,000

Material and Finish

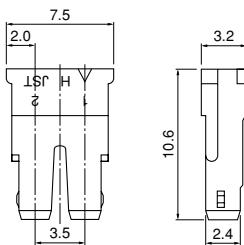
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05	APLMK SBHS002-05

Housing



Circuits	Model No.	Q'ty / bag
2	BHSR-02VS-1 (N)	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Note: Contact JST for BHSR-02VS-1.

Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02B-BHSS-1-TB	1,000

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)

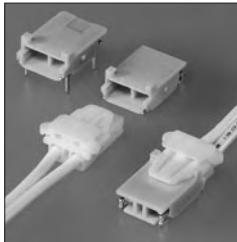
Wafer: PPA, UL94V-0, natural (ivory)

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

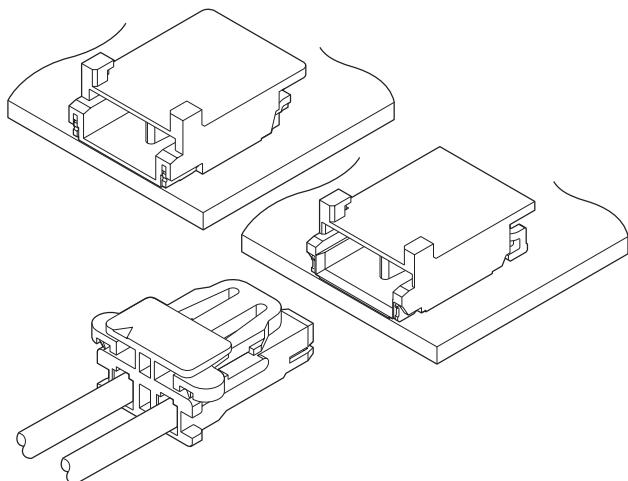
This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed tape.



BD CONNECTOR (3.5mm)

3.5mm pitch/Disconnectable Crimp style connectors



Board-to-wire connector with high withstand voltage, used for power supply of LCD (Liquid Crystal Display) back light.

- Secure locking mechanism
- High withstand voltage design
- Low profile
- Compatibility

Specifications

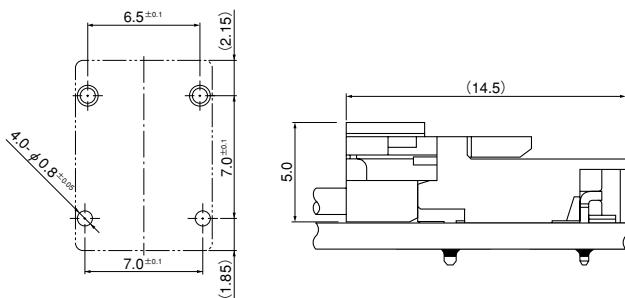
- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 1,400V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: AWG #28 to #24
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

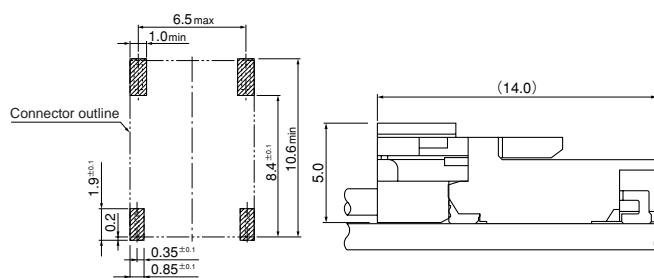
■ Recognized E60389

PC board layout (viewed from component side) and Assembly layout

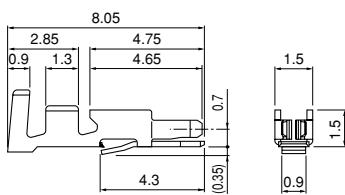
Through-hole type



SMT type



Contact



Model No.	Applicable wire		InsulationO.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SBHS-002T-P0.5A	0.08~0.22	28~24	0.9~1.7	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

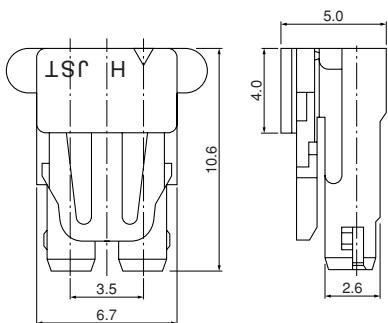
RoHS compliance

Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05	APLMK SBHS002-05

BD CONNECTOR (3.5mm)

Housing

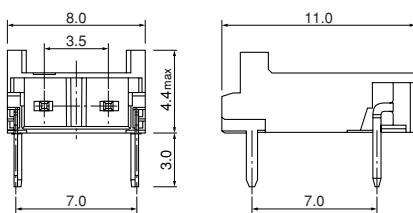


Circuits	Model No.	Q'ty / bag
2	BDMR-02VS-2	1,000
Material		
PA 66, UL94V-0, natural (white)		

RoHS compliance

Header

Through-hole type

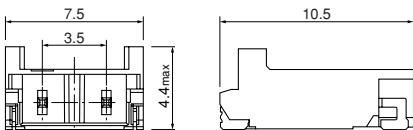


Through-hole type

Circuits	Model No.	Q'ty / box
2	S02-BDS-3-B	1,000
Material and Finish		
Press pin: Brass, Copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0, natural (ivory) Solder tab: Brass, Copper-undercoated, tin-plated (reflow treatment)		

RoHS compliance This product displays (LF)(SN) on a label.

SMT type

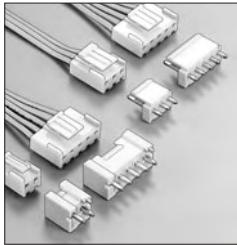


SMT type

Circuits	Model No.	Q'ty / reel
2	SM02-BDS-3-TB	1,000
Material and Finish		
Post: Brass, Copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0, natural (ivory) Solder tab: Brass, Copper-undercoated, tin-plated (reflow treatment)		

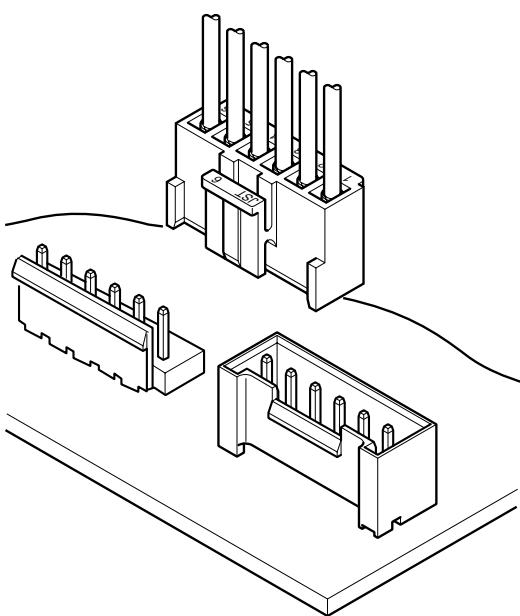
RoHS compliance This product displays (LF)(SN) on a label.

Note: The product listed above is supplied on embossed tape.



VH CONNECTOR

3.96mm pitch/Disconnectable Crimp style connectors

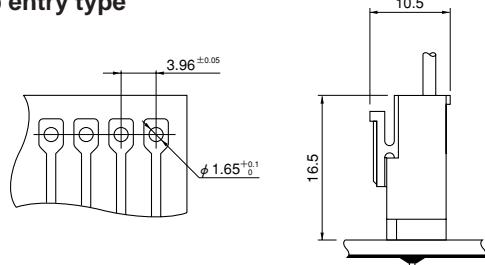


This small, field-proven connector for printed circuit boards is reliable and has a large current carrying capacity. It can be used with a wide variety of signal, power supply, and output circuits that appear in consumer electronic products.

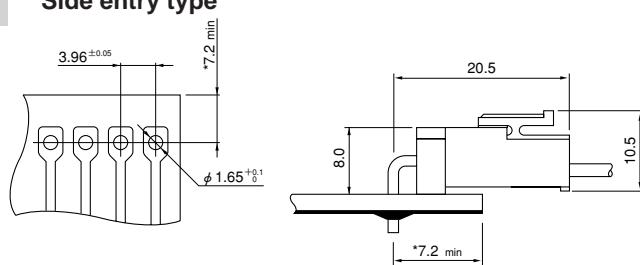
- Proven box contact
- Compact connector with a large capacity
- Secure contact and mounting

PC board layout (viewed from soldering side) and Assembly layout

**Locking header
Top entry type**

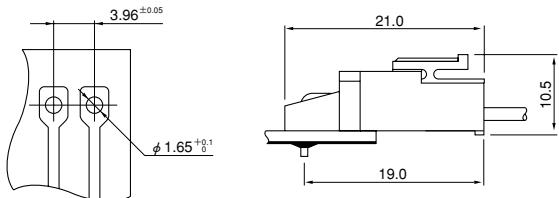


**Locking header
Side entry type**

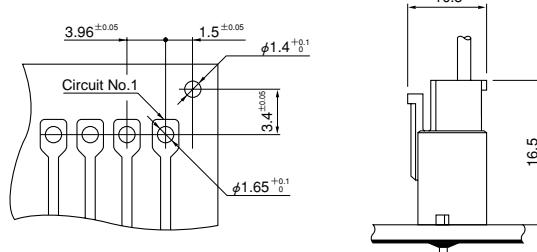


*11.0 max. when used with the VR connector receptacle.

**Locking header
Side entry type with PCB stabilizer**



Shrouded header

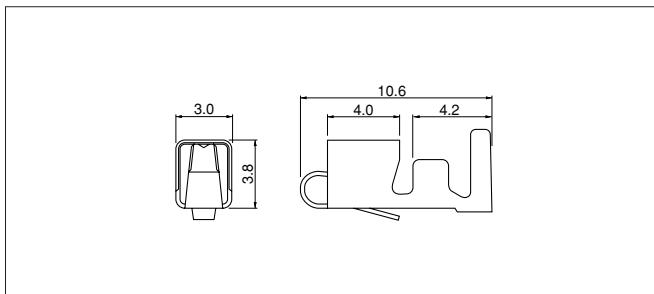


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Please consider the pattern layout design in case of applying the large current.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11

Note: *Strip-crimp applicator

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SVH-21T-P1.1	0.33~0.83	22~18	1.7~3.0	4,500
SVH-41T-P1.1	0.5 ~1.25	20~16	1.7~3.0	3,500

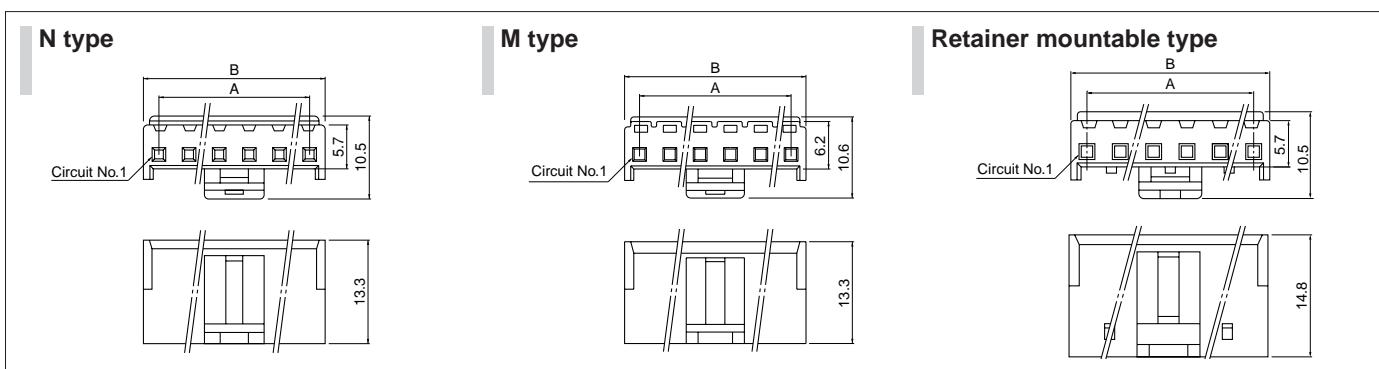
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

- Note: 1. Contact JST for brass products.
2. When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2mm.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-41T-P1.1	AP-K2N	MKS-L	MK/SVH-41-11	APLMK SVH41-11
		—	—	—

Housing

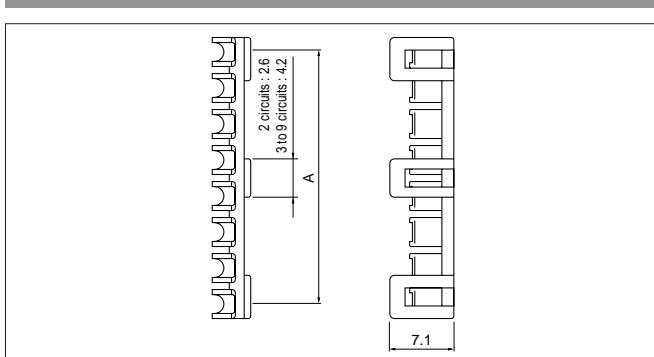


Circuits	Model No.			Dimensions (mm)		Q'ty / bag
	N type	M type	Retaine mountable type	A	B	
2	VHR-2N	VHR-2M	*VHRR-2N	3.96	7.86	1,000
3	VHR-3N	VHR-3M	*VHRR-3N	7.92	11.82	1,000
4	VHR-4N	VHR-4M	—	11.88	15.78	1,000
5	VHR-5N	VHR-5M	*VHRR-5N	15.84	19.74	1,000
6	VHR-6N	VHR-6M	—	19.80	23.70	500
7	VHR-7N	VHR-7M	*VHRR-7N	23.76	27.66	500
8	VHR-8N	—	*VHRR-8N	27.72	31.62	500
9	VHR-9N	VHR-9M	*VHRR-9N	31.68	35.58	500
10	VHR-10N	—	—	35.64	39.54	500
11	*VHRR-11N	—	—	39.60	43.50	500

Material
PA 6, UL94V-0, natural (white)

RoHS compliance

Retainer



Circuits	Model No.	A	Q'ty / bag
2	VHS-2V	3.70	1,000
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000
9	VHS-9V	31.28	1,000

Material
Glass-filled PA 66, UL94V-0, natural (ivory)

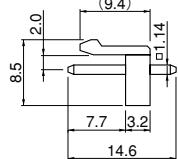
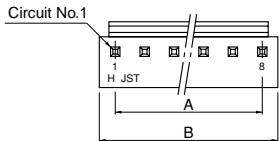
RoHS compliance

Note: Not TÜV approved.

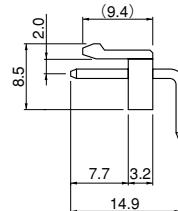
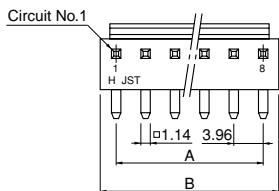
VH CONNECTOR

Locking header

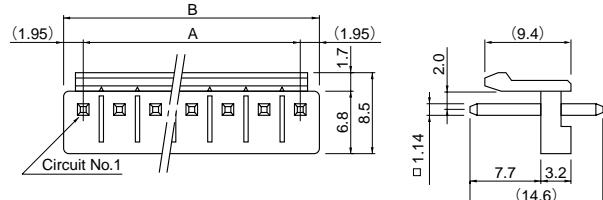
Top entry type



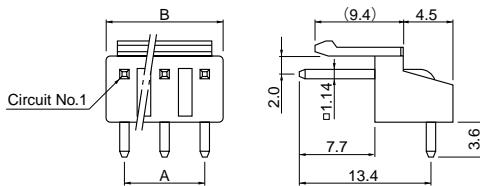
Side entry type



Top entry type of PBT



Side entry type with PCB stabilizer



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2P-VH	B2PS-VH	3.96	7.86	1,000	1,000
3	B3P-VH	B3PS-VH	7.92	11.82	1,000	500
4	B4P-VH	B4PS-VH	11.88	15.78	500	500
5	B5P-VH	B5PS-VH	15.84	19.74	500	250
6	B6P-VH	B6PS-VH	19.80	23.70	250	250
7	B7P-VH	B7PS-VH	23.76	27.66	250	250
8	B8P-VH	B8PS-VH	27.72	31.62	200	200
9	B9P-VH	B9PS-VH	31.68	35.58	200	200
10	B10P-VH	B10PS-VH	35.64	39.54	200	100

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66 UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Headers with a reduced number of posts are also available.
Contact JST for details.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2P(S)-VH-oo**

(blank)...natural (white)
BK...black R...red TR...tomato red BL...blue M...green
O...orange Y...yellow PK...pink H...gray

Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type of PBT	Side entry type with PCB stabilizer	A	B	Top entry type	Side entry type
2	B2P-VH-B	S2P-VH	3.96	7.86	1,000	1,000
3	B3P-VH-B	S3P-VH	7.92	11.82	1,000	500
4	B4P-VH-B	S4P-VH	11.88	15.78	500	500
5	B5P-VH-B	S5P-VH	15.84	19.74	500	250
6	B6P-VH-B	S6P-VH	19.80	23.70	250	250
7	B7P-VH-B	S7P-VH	23.76	27.66	250	250
8	B8P-VH-B	—	27.72	31.62	200	—
9	B9P-VH-B	—	31.68	35.58	200	—
10	B10P-VH-B	—	35.64	39.54	200	—
11	*B11P-VH-B	—	39.60	43.50	200	—

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Top entry type of PBT: Glass-filled PBT, UL94V-0, natural (ivory)
Side entry type with PCB stabilizer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: *Marked product is not TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

<Top entry type of PBT>

ex. **B2P-VH-B-oo**

(blank)...natural (ivory)
C...black R...red E...blue M...green Y...yellow

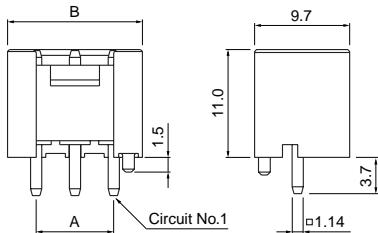
<Side entry type with PCB stabilizer>

ex. **S2P-VH-oo**

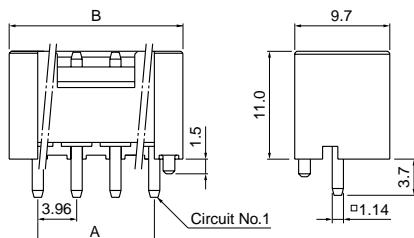
(blank)...natural (white)
BK...black R...red BL...blue Y...yellow M...green

Shrouded header

(2 , 3 circuits)



(4 to 10 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B2P-VH-FB-B	3.96	9.80	250
3	B3P-VH-FB-B	7.92	13.76	200
4	B4P-VH-FB-B	11.88	17.72	150
5	B5P-VH-FB-B	15.84	21.68	200
6	B6P-VH-FB-B	19.80	25.64	200
7	B7P-VH-FB-B	23.76	29.60	100
8	B8P-VH-FB-B	27.72	33.56	100
9	B9P-VH-FB-B	31.68	37.52	100
10	B10P-VH-FB-B	35.64	41.48	125

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The applicable housing for 2 circuits shrouded header is "VHR-2N" only.
"VHRR-2N" is not applicable.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2P-VH-FB-B-oo**

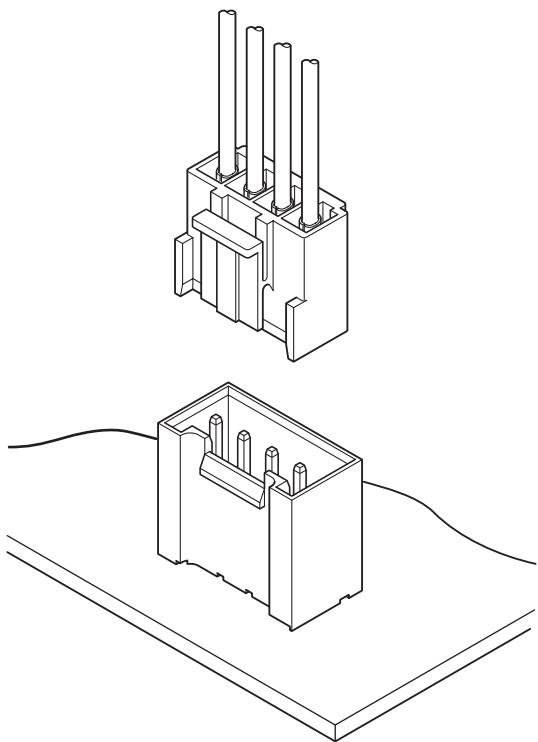
(blank)...natural (white)

R...red C...black E...blue M...green Y...yellow O...orange
H...gray PK...pink



VH CONNECTOR <High box type>

3.96mm pitch/Disconnectable Crimp style connectors



**Header for 3.96mm pitch VH connector for
use specifically with resin coated ("potted")
PC boards.**

- ***Interchangeability***

Specifications

- Current rating: 7A AC, DC (AWG #18)
 - Voltage rating: 250V AC, DC
 - Temperature range: -25°C to +85°C
 - (including temperature rise in applying electrical current)
 - Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 1,500V AC/minute
 - Applicable wire: AWG #22 to #18
 - Applicable PC board thickness: 1.6mm

Note: Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.

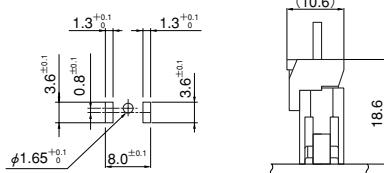
- * RoHS compliant products are published.
 - * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105°C.
 - * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 - * Contact JST for details.

Standards

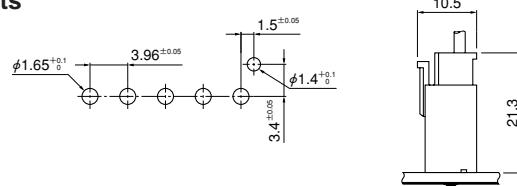
-  Recognized E60389
 Certified LR20812
 B75122

PC board layout (viewed from soldering side) and Assembly layout

1 circuit



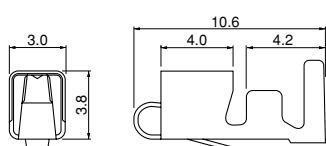
2 to 8 circuits



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guide line. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SVH-21T-P1.1	0.33~0.83	22~18	1.7~3.0	4,500

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

PoHS compliance

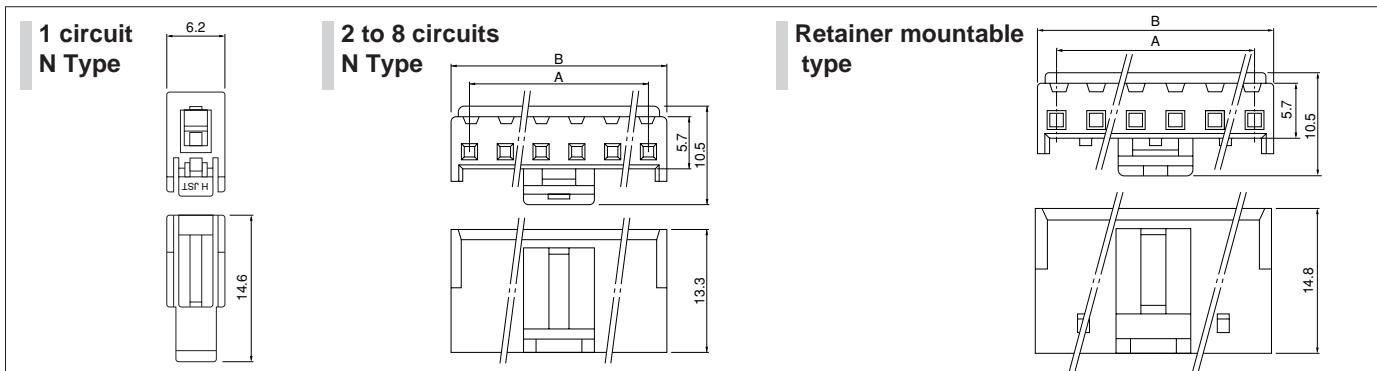
RoHS compliance
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L *MKS SC	MK/SVH-21-11 SC/SVH-21-11	APLMK SVH21-11 APL SC SVH21-11

Note: *Strip-crimp applicator

VH CONNECTOR<High box type>

Housing



Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	N type	Retainer mountable type	A	B	
1	*VHR-1N	—	—	—	1,000
2	VHR-2N	—	3.96	7.86	1,000
3	VHR-3N	*VHRR-3N	7.92	11.82	1,000
4	VHR-4N	—	11.88	15.78	1,000
5	VHR-5N	*VHRR-5N	15.84	19.74	1,000
6	VHR-6N	—	19.80	23.70	500
7	VHR-7N	*VHRR-7N	23.76	27.66	500
8	VHR-8N	*VHRR-8N	27.72	31.62	500

Material
PA 6, UL94V-0, natural (white)

RoHS compliance

Note: *Marked products are not TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

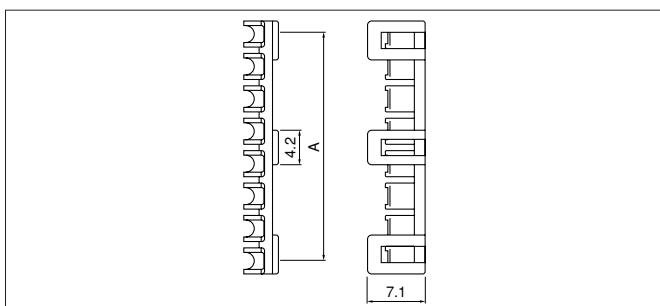
For availability, delivery and minimum order quantity, contact JST.

ex. **VHR-2N-oo**

(blank)...natural (white)

BK...black R...red BL...blue M...green

Retainer



Circuits	Model No.	A	Q'ty / bag
2	VHS-2V	3.70	1,000
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000
9	VHS-9V	31.28	1,000

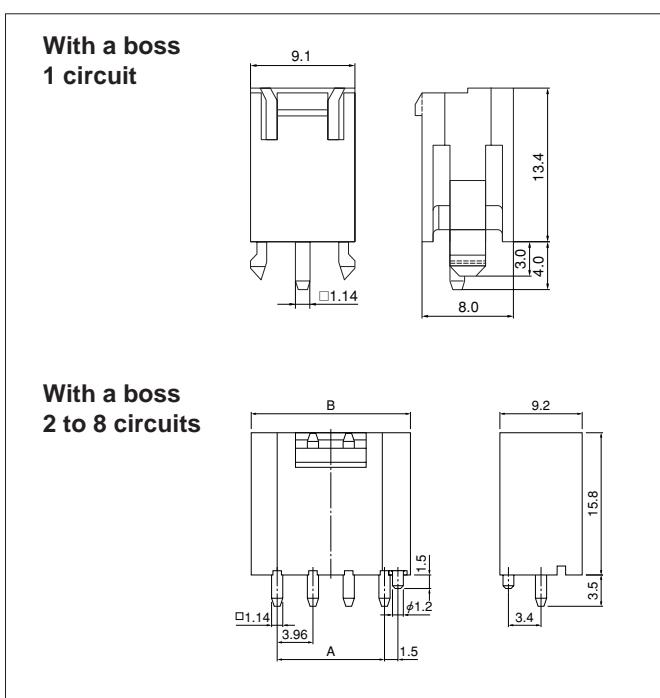
Material

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

Note: Not TÜV approved.

Shrouded header



Circuits	Model No.	Q'ty / box	
		With a boss	
1	BH1P-VH-1	500	

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL-94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Not TÜV approved.

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		With a boss	A	
2	BH2P-VH-1	3.96	9.80	250
3	BH3P-VH-1	7.92	13.76	200
4	BH4P-VH-1	11.88	17.72	150
5	BH5P-VH-1	15.84	21.68	100
6	BH6P-VH-1	19.80	25.64	100
7	BH7P-VH-1	23.76	29.60	100
8	BH8P-VH-1	27.72	33.56	100

Material and Finish

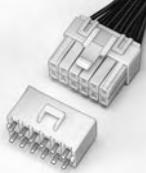
Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL-94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

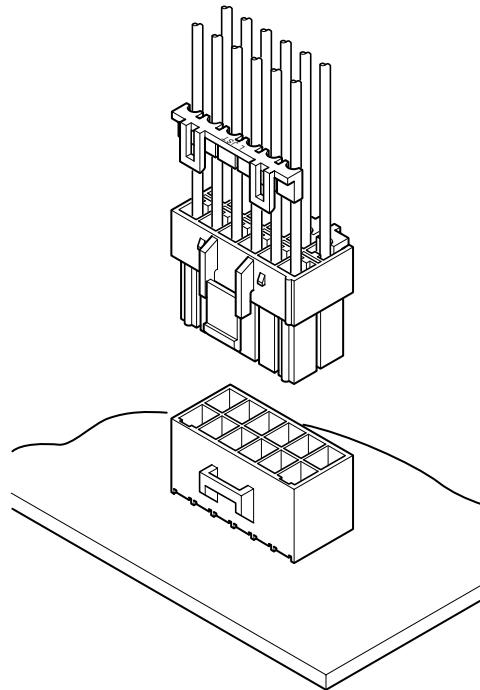
ex. **BH2P-VH-1-oo**

(blank)...natural (ivory) BK...black R...red BL...blue M...green



HL CONNECTOR

3.96mm pitch Disconnectable Crimp style connectors



- **Housing lances for contact retention**
- **Inner-housing lock**
- **Secondary retainer**
- **Low insertion force contact**

Specifications

- Current rating: 7A AC, DC (Refer to the table below.)
- Voltage rating: 300V AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.5 to 2.2mm

Note:

The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit:A

Circuits	Wire size(AWG)		
	#18	#20	#22
4□	7□	5□	4□
8□	6□	4□	3□
12	5	3	3

Note:

Do not branch in parallel current which exceeds the rated current (eg. more than 7A in the case of 4 circuits with AWG #18). If branched in parallel, current imbalance or other problems may develop.

- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

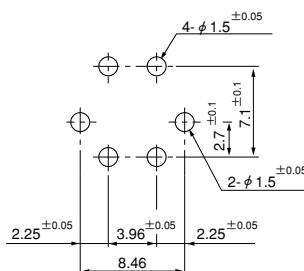
■ Recognized E60389

■ Certified LR20812

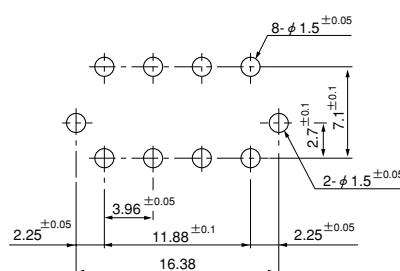
△ R9551072

PC board layout (viewed from component side)

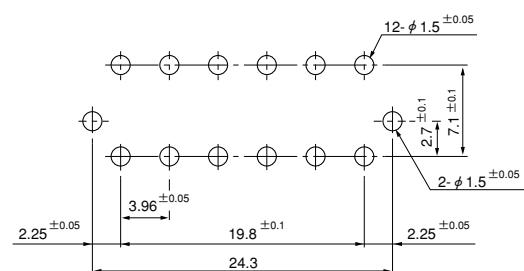
(4 circuits)



(8 circuits)



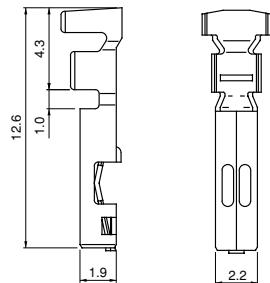
(12 circuits)



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SSF-21T-P1.4	0.3~0.75	22~18	1.5~2.2	6,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

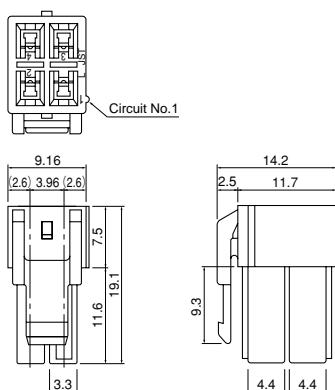
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSF-21T-P1.4	AP-K2N	MKS-L *MKS-SC	MK/SSF/M-21-14 SC/SSF/M-21-14	APLMK SSF/M21-14 APLSC SSF/M21-14

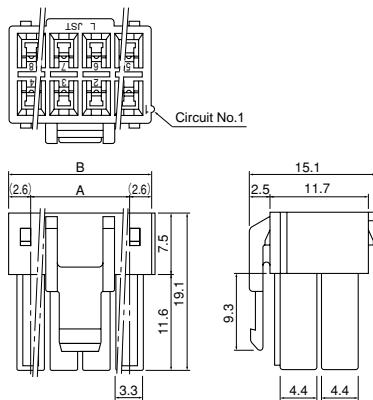
Note: *Strip-crimp applicator

Housing

(4 circuits)



(8, 12 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
4	HLP-04V	—	—	500
8	HLP-08V	11.88	17.08	500
12	HLP-12V	19.8	25.0	500

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

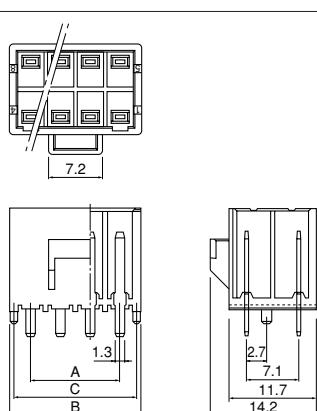
ex. **HLP-04V-oo**

(blank)...natural (white)

E...blue

Locking header

(4 to 12 circuits)



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	B04P-HL-A	3.96	9.56	8.46	200
8	B08P-HL-A	11.88	17.48	16.38	100
12	B12P-HL-A	19.80	25.40	24.30	50

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B04P-HL-A-oo**

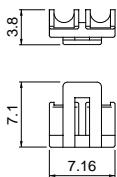
(blank)...natural (white)

E...blue

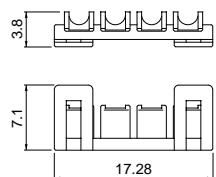
HL CONNECTOR

Retainer

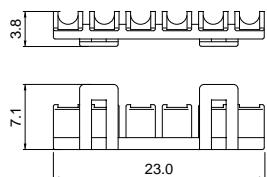
HLS-02V



HLS-08V



HLS-12V



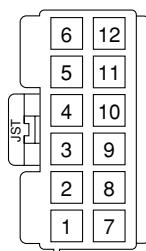
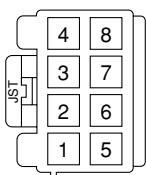
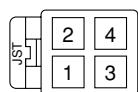
Applicable Housing Model No.	Retainer Model No.	Q'ty / bag
HLP-04V	HLS-02V	1,000
HLP-08V	HLS-08V	1,000
HLP-12V	HLS-12V	1,000

Material

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

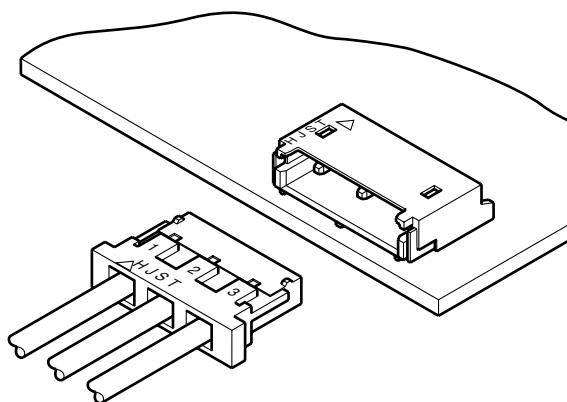
Contact position location numbers





BH CONNECTOR

4.0/8.0/12.0mm pitch/Disconnectable Crimp style connectors



Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

- Low profile
- SMT configuration
- Applicable to special wires
- Headers with locating bosses
- Housing lock also serves as polarizing device

Specifications

- Current rating: 1.0A AC, DC (AWG #22)
- Voltage rating: 600V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10mΩ max.
After environmental testing/20mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,800V AC/minute
- Applicable wire: AWG #28 to #22
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

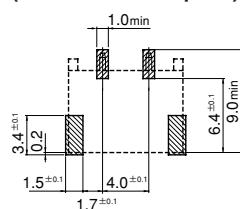
Recognized E60389

Certified LR20812

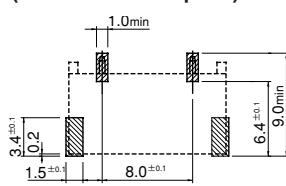
PC board layout (viewed from component side)

SMT type

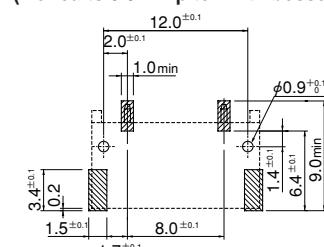
(2 circuits 4.0mm pitch)



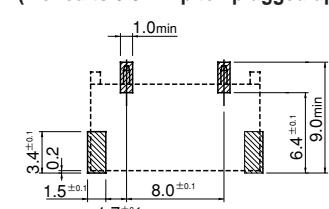
(2 circuits 8.0mm pitch)



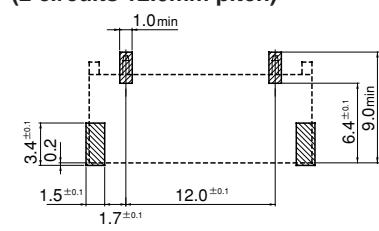
(2 circuits 8.0mm pitch with bosses)



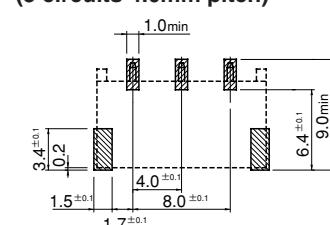
(2 circuits 8.0mm pitch plugged up)



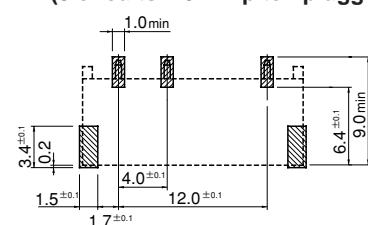
(2 circuits 12.0mm pitch)



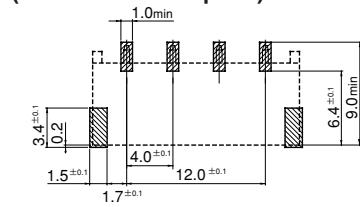
(3 circuits 4.0mm pitch)



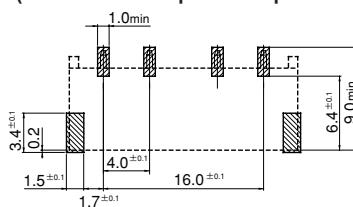
(3 circuits 4.0mm pitch plugged up)



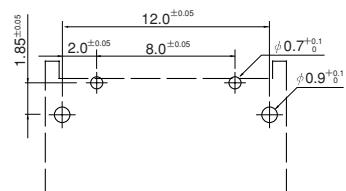
(4 circuits 4.0mm pitch)



(4 circuits 4.0mm pitch with post removed)



Through-hole type

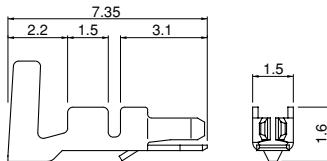


Note: 1. Tolerances are for pattern non-cumulative: ±0.05mm for all centers. Tolerance for hole size is ±0.1.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as guideline. Contact JST for details.

BH CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SBH-001T-P0.5	0.08~0.33	28~22	1.6 ~2.4	4,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

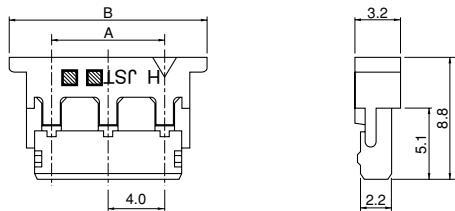
Note: Wire conductors should be tin-plated annealed copper strands.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBH-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

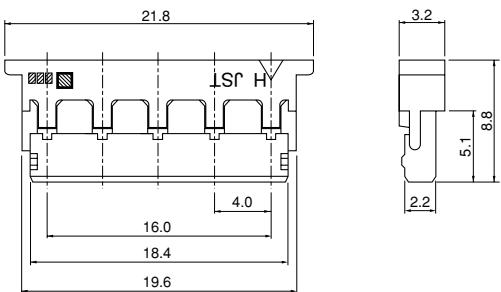
Note: *Strip-crimp applicator

Housing

2 to 4 circuits



5 circuits



Circuits	Pitch (mm)	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
2	4	BHR-02VS-1	4.0	9.8	1,000
	8	BHR-03VS-1	8.0	13.8	1,000
	Note1) 8	BHR-02(8.0)VS-1N	8.0	13.8	1,000
3	12	BHR-04VS-1	12.0	17.8	1,000
	4	BHR-03VS-1	8.0	13.8	1,000
	Note2) 4	BHR-03(4-3)VS-1N	12.0	17.8	1,000
	4	BHR-04VS-1	12.0	17.8	1,000
5	4	BHR-05VS-1	16.0	21.8	1,000

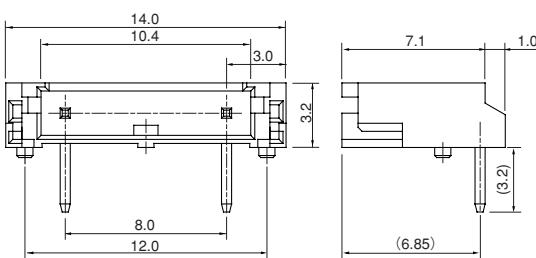
Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Note: 1. BHR-02(8.0)VS-1N: 2 circuits 8.0mm pitch plugged up.
2. BHR-03(4-3)VS-1N: 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

Through-hole type shrouded header



Circuits	Pitch (mm)	Model No.	Q'ty / tray
2	8	S02(8.0)B-BHS	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)

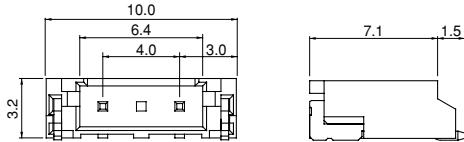
RoHS compliance

This product displays (LF)(SN) on a label.

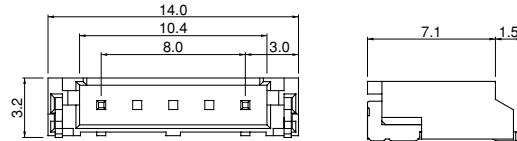
Note: The applicable housing is "BHR-02(8.0)VS-1N" only.

SMT type shrouded header

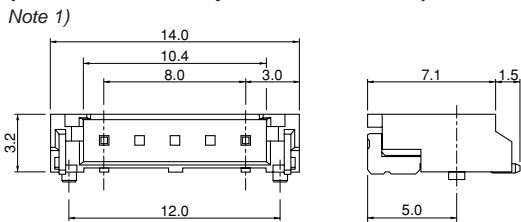
(2 circuits 4.0mm pitch)



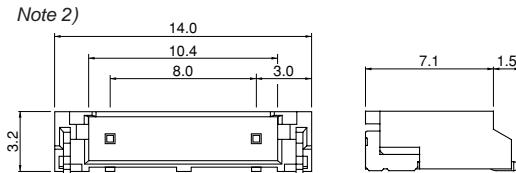
(2 circuits 8.0mm pitch)



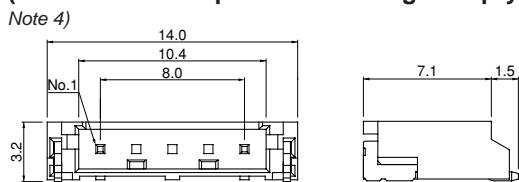
(2 circuits 8.0mm pitch with bosses)



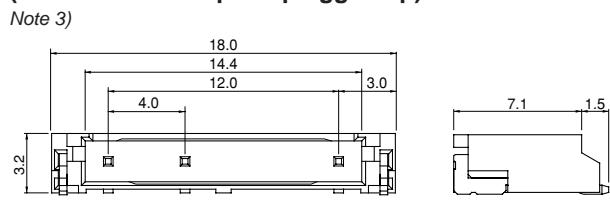
(2 circuits 8.0mm pitch plugged up)



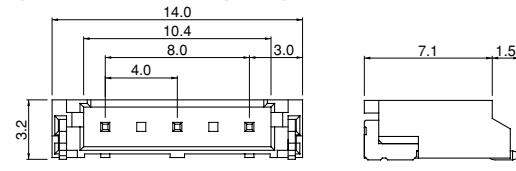
(2 circuits 8.0mm pitch with ribs against prying)



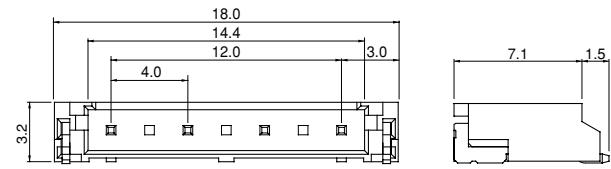
(3 circuits 4.0mm pitch plugged up)



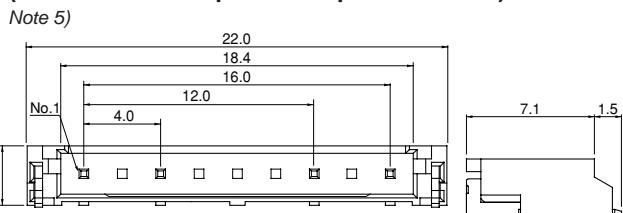
(3 circuits 4.0mm pitch)



(4 circuits 4.0mm pitch)



(4 circuits 4.0mm pitch with post removed)



Circuits	Pitch(mm)	Model No.	Q'ty / reel
2	4	SM02(4.0)B-BHS-1-TB	1,000
	8	SM02(8.0)B-BHS-1-TB	1,000
	Note1) 8	SM02(8.0)B-BHS-TB	1,000
	Note2) 8	SM02(8.0)B-BHS-1N-TB	1,000
	Note4) 8	SM02(8.0)B-BHS-1R-TB	1,000
	12	SM02(12.0)B-BHS-1-TB	1,000
3	4	SM03(4.0)B-BHS-1-TB	1,000
	Note3) 4	SM03(7-D1)B-BHS-1N-TB	1,000
4	4	SM04(4.0)B-BHS-1-TB	1,000
5	Note5) 4	SM04(9-E2)B-BHS-1-TB	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.

Note: 1. Header with bosses. Contact JST for other circuits headers with bosses.

2. 2 circuits 8.0mm pitch plugged up.

3. 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

4. Header with ribs against prying. Contact JST for other circuits headers with ribs against prying.

5. 5 circuits 4.0mm pitch header with circuit No.3 post removed.

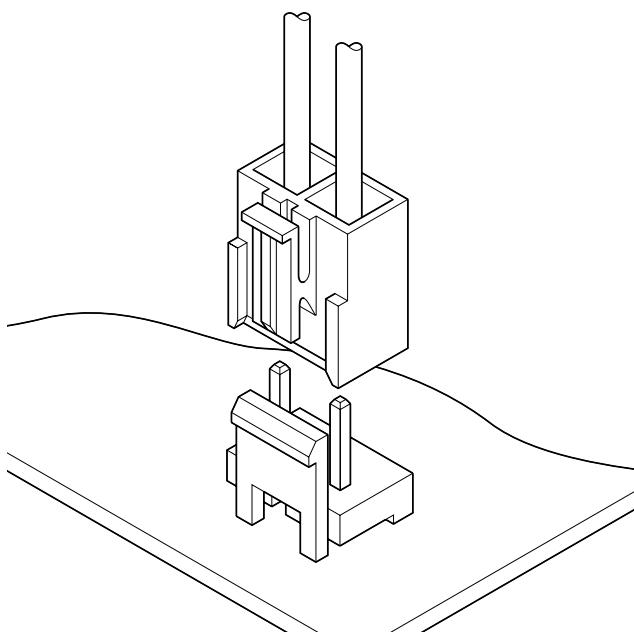
6. The products listed above are supplied on embossed tape.

7. Products with bosses supplied in loose piece are also available. Contact JST for details.



NV CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



- Side stackable
- Box contact
- Compact connector with a large capacity
- Secure contact and mounting

Specifications

- Current rating: 10A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

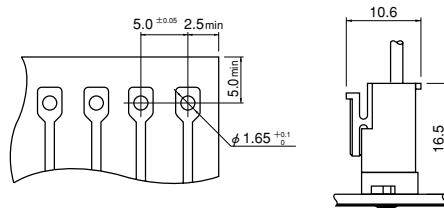
Standards

■ Recognized E60389

■ Certified LR20812

△ R9251676

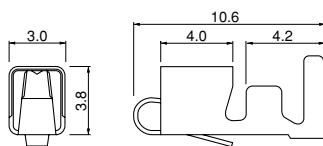
PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SVH-21T-P1.1	0.33~0.83	22~18	1.7~3.0	4,500
SVH-41T-P1.1	0.5 ~ 1.25	20~16	1.7~3.0	3,500

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

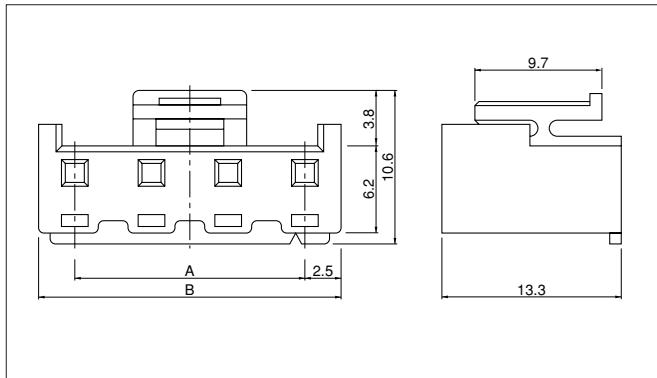
RoHS compliance

Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11
		MKS-L	MK/SVH-41-11	APLMK SVH41-11
		—	—	—

Note: *Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	NVR-02	5.0	10.0	1,000
3	NVR-03	10.0	15.0	500
4	NVR-04	15.0	20.0	1,000

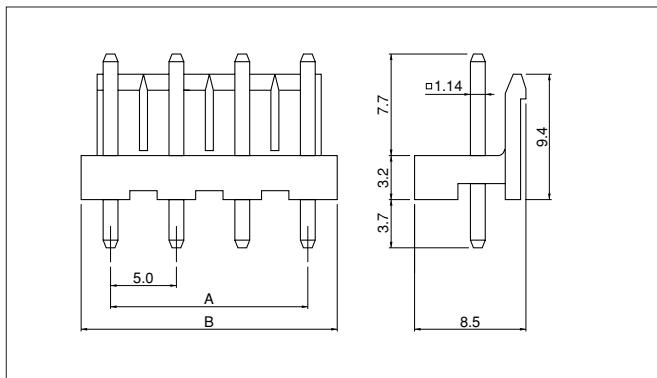
Material

PA 6, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **NVR-02-oo**
(blank)...natural (white)
E...blue

Locking header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B02P-NV	5.0	10.0	1,000
3	B03P-NV	10.0	15.0	700
4	B04P-NV	15.0	20.0	500

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: B02P-NV...PA 66,UL94V-0, natural (white)
B03P-NV & B04P-NV...Glass-filled PBT, UL94V-0, natural (white)

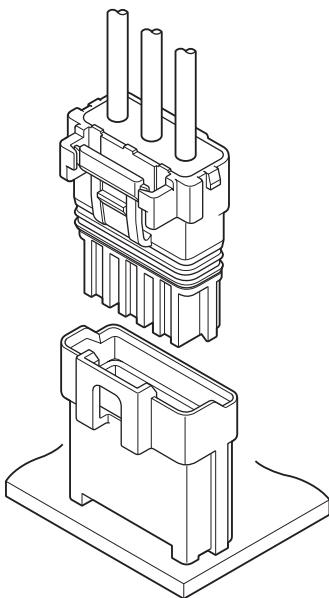
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **B02P-NV-oo**
(blank)...natural (white)
BL...blue



WPJ CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



Compact, Water Resist and Durable. This connector for electrical connection can be used on both waterproof and non-waterproof conditions, depending on the usage. Just by placing a rubber part will change it into a water resistant connector. Both conditions are using the same header.

- Waterproof Performance [Grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7)]
- Control Key System
- Contacting part of contact is hardly deformed
- Inner-housing lock
- Compact Design

Specifications

- Current rating: 7A AC, DC (AWG #18)
 - Voltage rating: 300V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 1,500V AC/minute
 - Applicable wire: Conductor size/AWG #22 to #18
Insulation O.D./2.32 to 2.83mm
1.52 to 2.03mm
 - Waterproof grade: Grade 7 ingress protection of JIS C 0920(IEC 60529 IPX7)
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

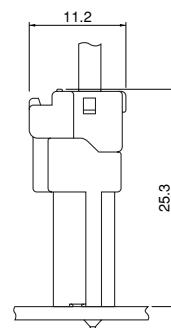
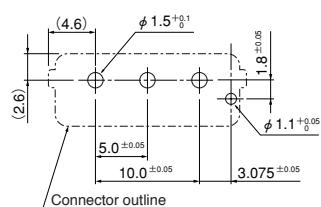
Standards

■ Recognized E60389

■ Certified LR20812

△ File No.R50073100

PC board layout (viewed from component side) and Assembly layout

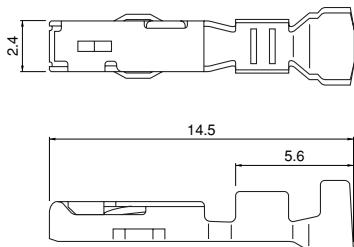


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

WPJ CONNECTOR

(Non-waterproof type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SWPJR-21T-M0.5	0.33~0.83	22~18	2.32~2.83	4,500
*SWPJR-21T-M0.5A	0.33~0.83	22~18	1.52~2.03	4,500

Material and Finish

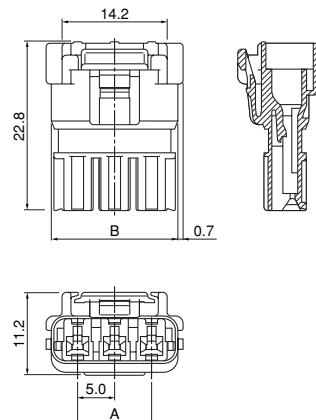
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: *Marked product is not UL/CSA/TÜV approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—
SWPJR-21T-M0.5A	AP-K2N	MKS-L	MK/SWPJR/T-21-05A	APLMK SWPJR/T21-05A
		—	—	—

Housing



Receptacle housing

Circuits	Model No.	A	B	Q'ty / bag
2	WPJR-02V-1-S	—	12.1	1,000
3	WPJR-03V-1-S	10.0	17.1	1,000

Material

Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

<For reference> Polarizing key pattern

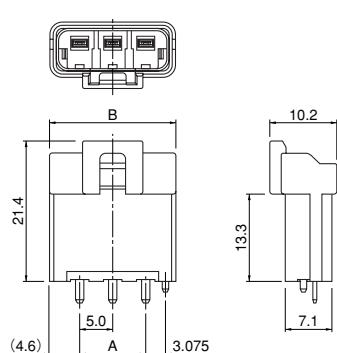
Key pattern No.1(Color: Natural): **WPJR-02V-1-S**

Key pattern No.2(Color: Red): **WPJR-02V-2-R**

Key pattern No.3(Color: Blue): **WPJR-02V-3-E**

For availability, delivery and minimum order quantity, contact JST.

Header



Circuits	Model No.	A	B	Q'ty / bag
2	B02B-WPJSS-1	—	14.2	400
3	B03B-WPJSS-1	10.0	19.2	300

Material and Finish

Wafer: Glass-filled PBT, UL94V-0

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> Polarizing key pattern

Key pattern No.1(Color: Natural): **B02B-WPJSS-1**

Key pattern No.2(Color: Red): **B02B-WPJRS-2**

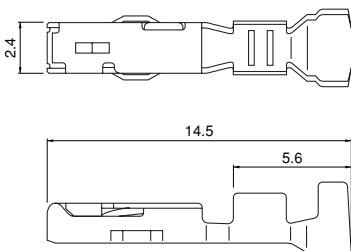
Key pattern No.3(Color: Blue): **B02B-WPJES-3**

For availability, delivery and minimum order quantity, contact JST.

WPJ CONNECTOR

(Waterproof type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SWPJR-21T-M0.5	0.33~0.83	22~18	2.32~2.83	4,500

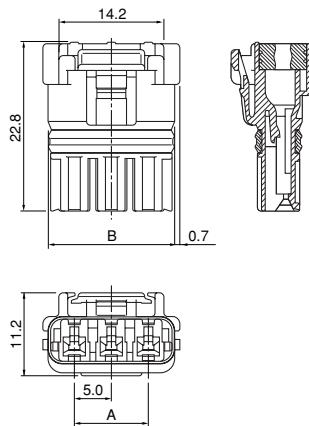
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05

Housing



Receptacle housing assembly

Circuits	Model No.	A	B	Q'ty / box
2	02R-WPJY-1-SMM	—	12.1	240
3	03R-WPJY-1-SMM	10.0	17.1	192

Material

Receptacle housing: Glass-filled PBT, UL94V-0, natural (white)
Seal ring: Silicon, green
Seal rubber plate: Silicon, green

RoHS compliance

<For reference> Polarizing key pattern

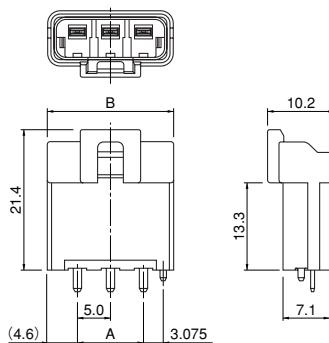
Key pattern No.1(Color: Natural): **02R-WPJY-1-SMM**

Key pattern No.2(Color: Red): **02R-WPJY-2-RMM**

Key pattern No.3(Color: Blue): **02R-WPJY-3-EMM**

For availability, delivery and minimum order quantity, contact JST.

Header



Circuits	Model No.	A	B	Q'ty / bag
2	B02B-WPJSS-1	—	14.2	400
3	B03B-WPJSS-1	10.0	19.2	300

Material and Finish

Wafer: Glass-filled PBT, UL94V-0
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.

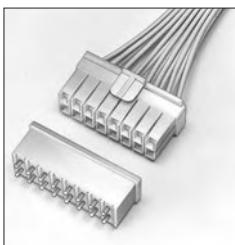
<For reference> Polarizing key pattern

Key pattern No.1(Color: Natural): **B02B-WPJSS-1**

Key pattern No.2(Color: Red): **B02B-WPJRS-2**

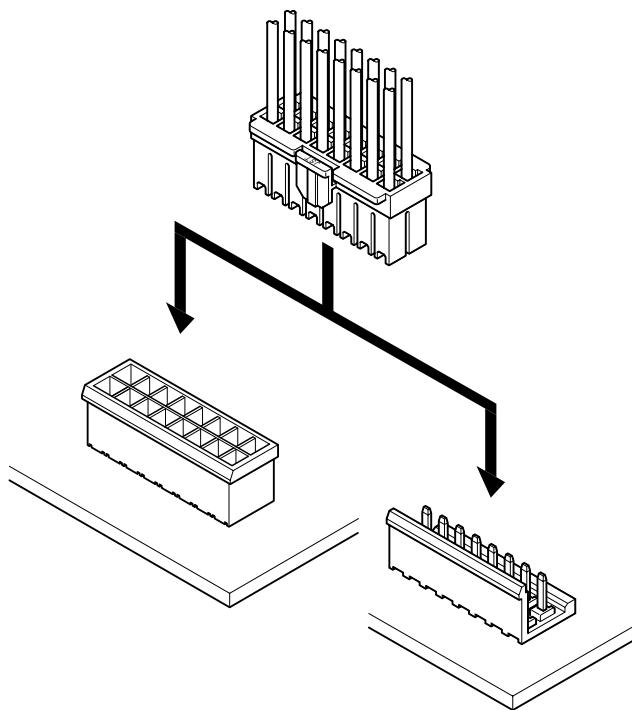
Key pattern No.3(Color: Blue): **B02B-WPJES-3**

For availability, delivery and minimum order quantity, contact JST.



XL CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



The reliable XL connectors have been developed by utilizing the technology of JST's field proven VH and SM connectors. The XL connectors are being used in electric appliances, vending machines, and office automation equipment.

- Reliable housing construction
- Easy contact insertion
- Box-shaped contact
- Two kinds of connections

Specifications

- Current rating: 10A AC, DC (Refer to the table below.)
- Voltage rating: 150V AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note:

The rated current varies depending on the number of circuits and the size of the wire to be connected by crimping.

Circuits	Wire size(AWG)						Current unit:A
	#16	#18	#20	#22	#24	#26	
2	10	6	5	4	3	3	
3	9	5	4	3	3	2	
4	9	5	4	3	3	2	
8	6	4	3	3	2	2	
12	6	4	3	3	2	2	
16	5	3	2	2	1	1	

Note:

Do not branch in parallel current which exceeds the rated current per circuit listed below. (Example: more than 10A in the case of a 2-circuit connector using AWG #16 wires.) If branched in parallel, current imbalance or other problems may develop.

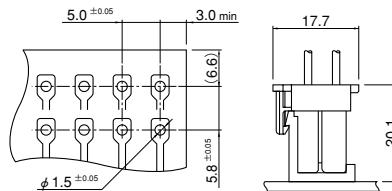
Standards

■ Recognized E60389

■ Certified LR20812

△ R75150

Locking header PC board layout (viewed from soldering side) and Assembly layout

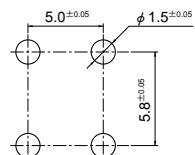


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

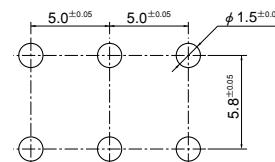
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Shrouded header PC board layout (viewed from component side)

[HDS type]
Top entry type



[HDS type]
Side entry type

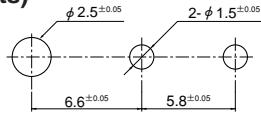


XL CONNECTOR

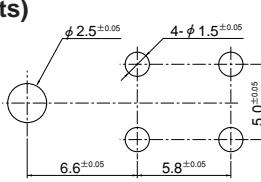
Shrouded header PC board layout (viewed from component side)

[HDB type] Top entry type

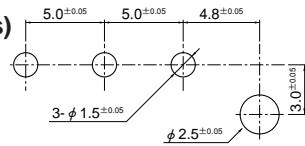
(2 circuits)



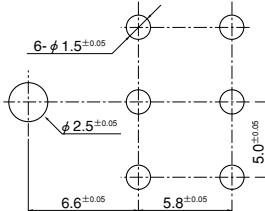
(4 circuits)



(3 circuits)

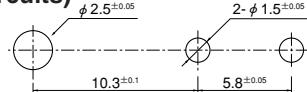


(6 circuits)

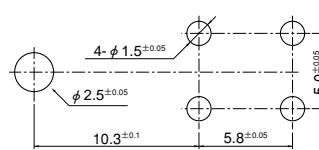


[HDB type] Side entry type

(2 circuits)



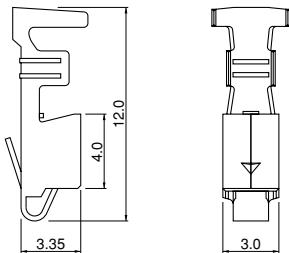
(4 circuits)



Note: 1. Tolerances are non-cumulative: ± 0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SXF-01T-P0.7	0.13~0.5	26~20	1.3~2.7	3,000
	0.5 ~ 1.25	20~16	1.9~3.1	
	0.3×2 ~ 0.5×2	22×2 ~ 20×2	1.7×2 ~ 2.0×2	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

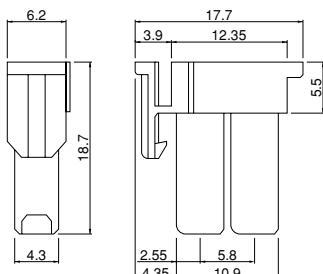
RoHS compliance

Note: Contact JST for brass products.

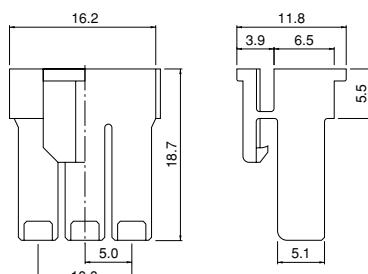
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXF-01T-P0.7	AP-K2N	MKS-L	MK/SXF-01-07	APLMK SXF01-07
SXF-41T-P0.7	AP-K2N	—	—	—

Housing

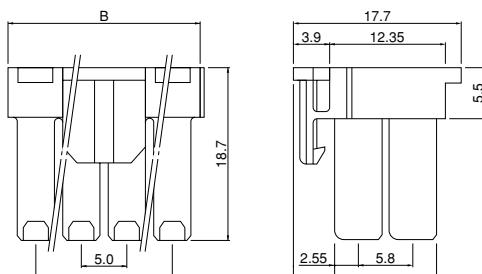
(2 circuits)



(3 circuits)



(4 to 16 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XLP-02V	—	—	500
3	XLP-03V	—	—	500
4	XLP-04V	5.0	11.2	500
8	XLP-08V	15.0	21.2	500
12	XLP-12V	25.0	31.2	200
16	XLP-16V	35.0	41.2	200

Material

PA 66, UL94V-0, natural (white)

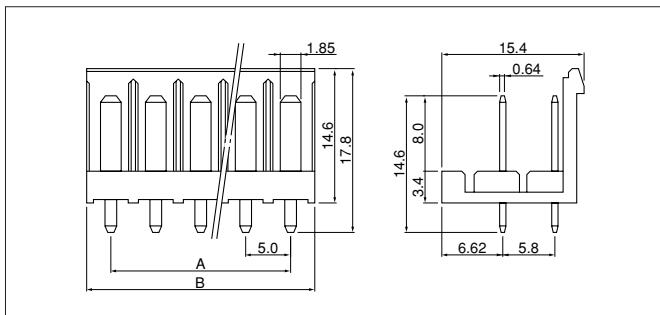
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XLP-02V-oo**

(blank)...natural (white)
K...black R...red E...blue Y...yellow

RoHS compliance

Locking header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B02P-XL	—	5.0	250
4	B04P-XL	5.0	10.0	200
8	B08P-XL	15.0	20.0	100
12	B12P-XL	25.0	30.0	50
16	B16P-XL	35.0	40.0	50

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

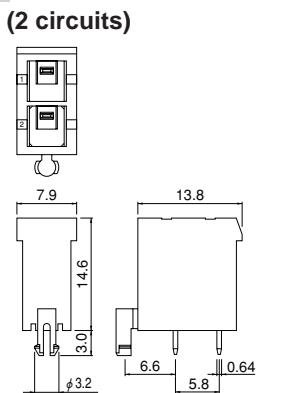
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02P-XL-oo**

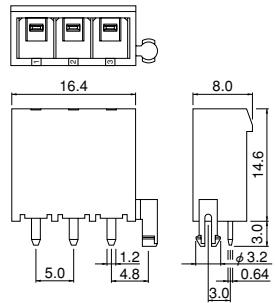
(blank)...natural (white) K...black R...red E...blue Y...yellow

Shrouded header <HDB type>

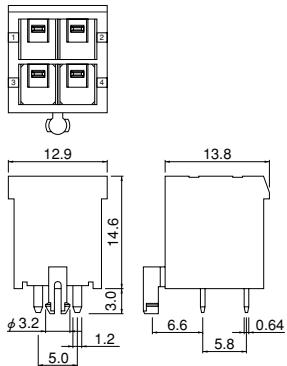
Top entry type



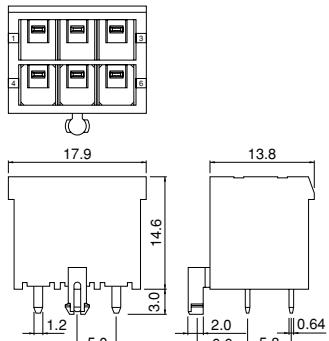
(3 circuits)



(4 circuits)



(6 circuits)



Circuits	Model No.		Q'ty / box	
	Top entry type	Side entry type	Top entry type	Side entry type
2	B02P-XL-HDB	S02P-XL-HDB	200	100
3	B03P-XL-HDB	—	200	—
4	B04P-XL-HDB	S04P-XL-HDB	200	100
6	B06P-XL-HDB	—	100	—

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

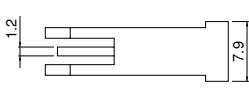
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02P-XL-HDB-oo , S02P-XL-HDB-oo**

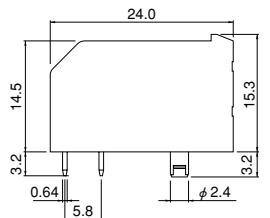
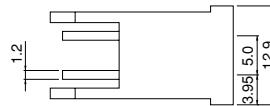
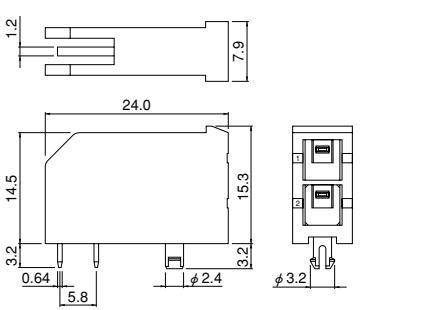
(blank)...natural (white)
K...black R...red E...blue Y...yellow
M...green H...gray N...brown D...orange
L...lemon yellow

Side entry type

(2 circuits)



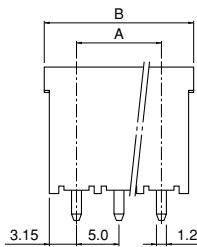
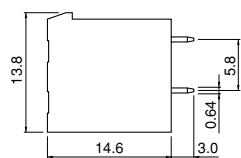
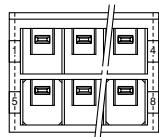
(4 circuits)



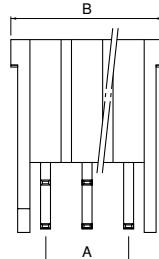
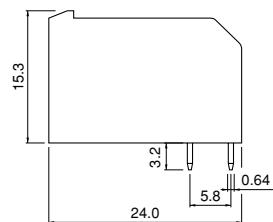
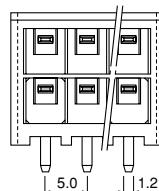
XL CONNECTOR

Shrouded header <HDS type>

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty
	Top entry type	Side entry type	A	B	
2	B02P-XL-HDS	—	—	7.9	200
4	B04P-XL-HDS	—	5.0	12.9	200
8	B08P-XL-HDS	S08P-XL-HDS	15.0	22.9	100
12	B12P-XL-HDS	S12P-XL-HDS	25.0	32.9	50
16	B16P-XL-HDS	S16P-XL-HDS	35.0	42.9	40
					20

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

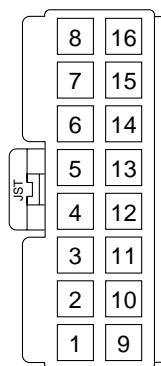
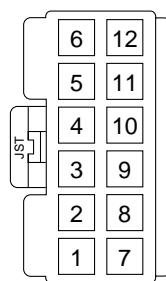
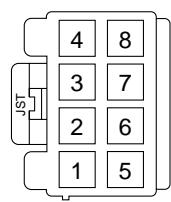
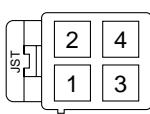
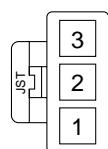
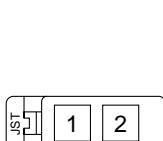
This product displays (LF)(SN) on a label.
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

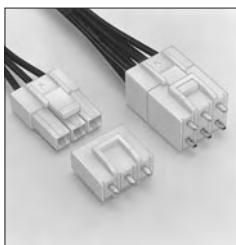
ex. **B08P-XL-HDS-oo**, **S08P-XL-HDS-oo**

(blank)...natural (white)

K...black R...red E...blue Y...yellow

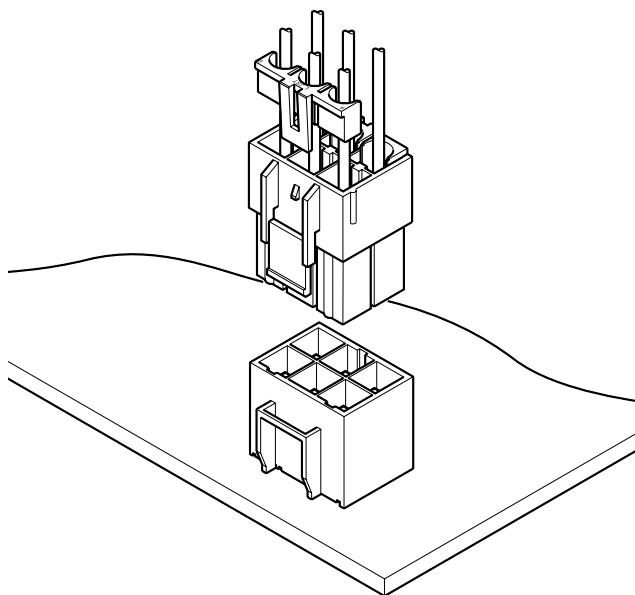
Contact position location numbers





VL CONNECTOR

6.2mm pitch/Disconnectable Crimp style connectors



This VL connector is designed for wire-to-wire and wire-to-board 6.2mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safety.

- Housing lances for contact retention
- Secondary retainer
- Suited for large current
- Two kinds of connections

Specifications

- Current rating: 20A AC, DC (Refer to the table below.)
- Voltage rating: 600V AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 2,000V AC/minute
- Applicable wire: AWG #22 to #12
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105°C.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Circuits	Wire size(AWG)					
	# 12	# 14	# 16	# 18	# 20	# 22
2	20	15	10	8	6	4
3	17	14	9	8	6	4
4	16	13	9	7	6	4
6	15	12	8	7	5	3
8	14	11	7	6	5	3
12	13	10	7	6	4	3

Note: Do not branch in parallel current which exceeds the rated current (eg. more than 17A in the case of 3 circuits with AWG #12). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

Standards

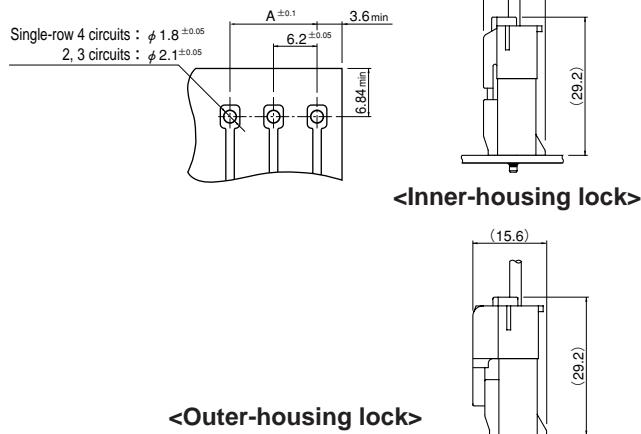
■ Recognized E60389

■ Certified LR20812

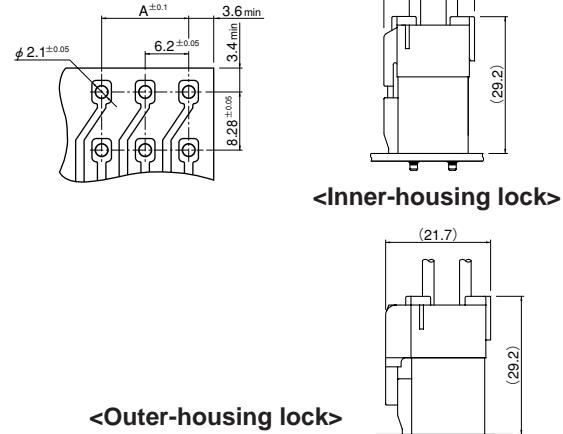
△ R9351103

PC board layout (viewed from soldering side) and Assembly layout

(2, 3, Single-row 4 circuits)



(4, 6, 8, 12 circuits)

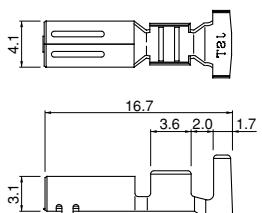


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

VL CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
	mm ²	AWG #		
*SVF-42T-P2.0	0.3 ~ 1.25	22~16	1.7 ~ 3.2	2,000
SVF-61T-P2.0	0.5 ~ 2.0	20~14	1.9 ~ 3.4	2,000
SVF-81T-P2.0	3.5	12	4.1	2,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

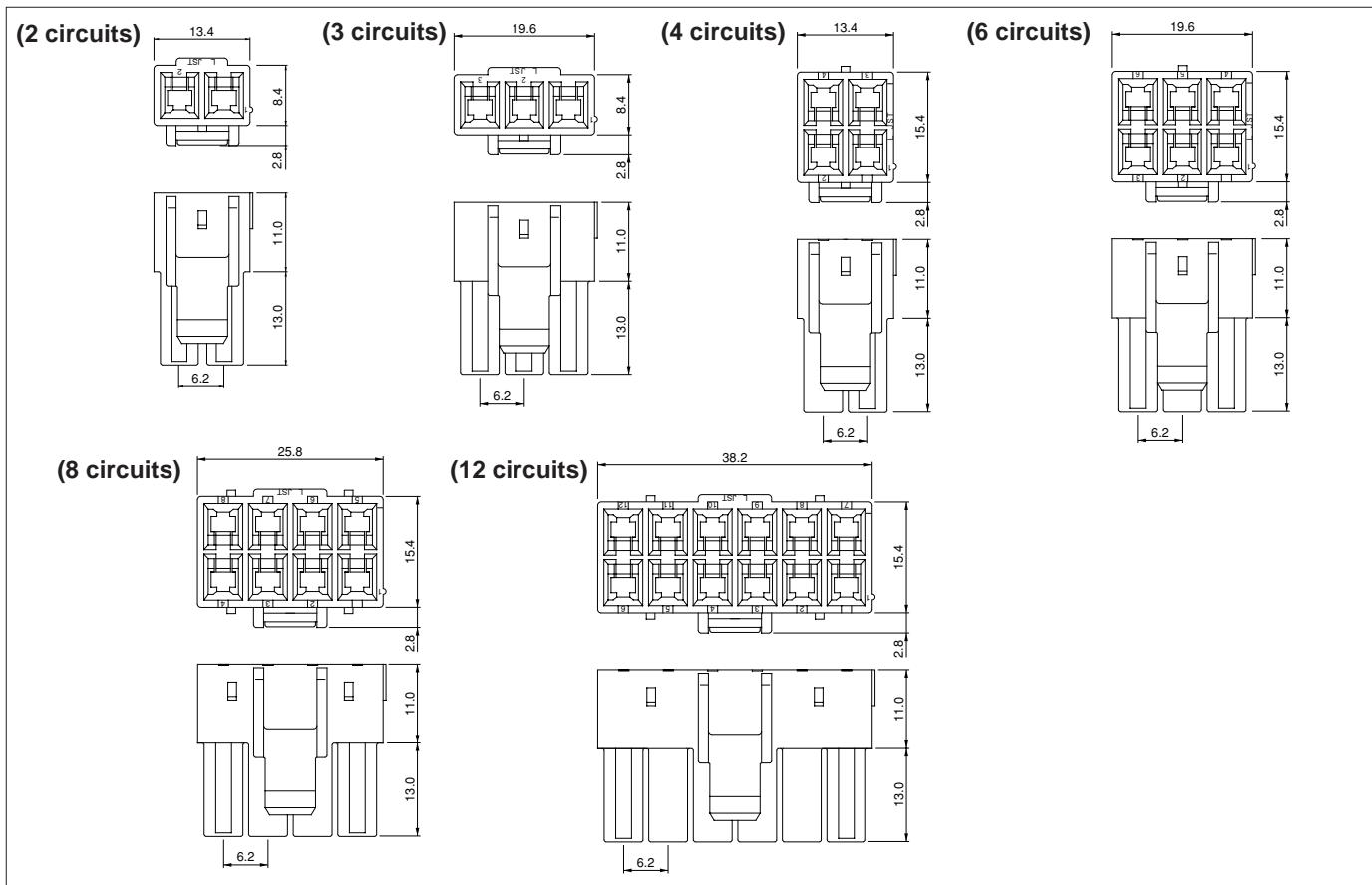
RoHS compliance

Note: *Marked product is not TÜV approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVF-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20
		—	—	—
SVF-61T-P2.0	AP-K2N	MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVF-81T-P2.0	AP-K2N	MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20
—	—	—	—	—

Housing (Inner-housing lock)



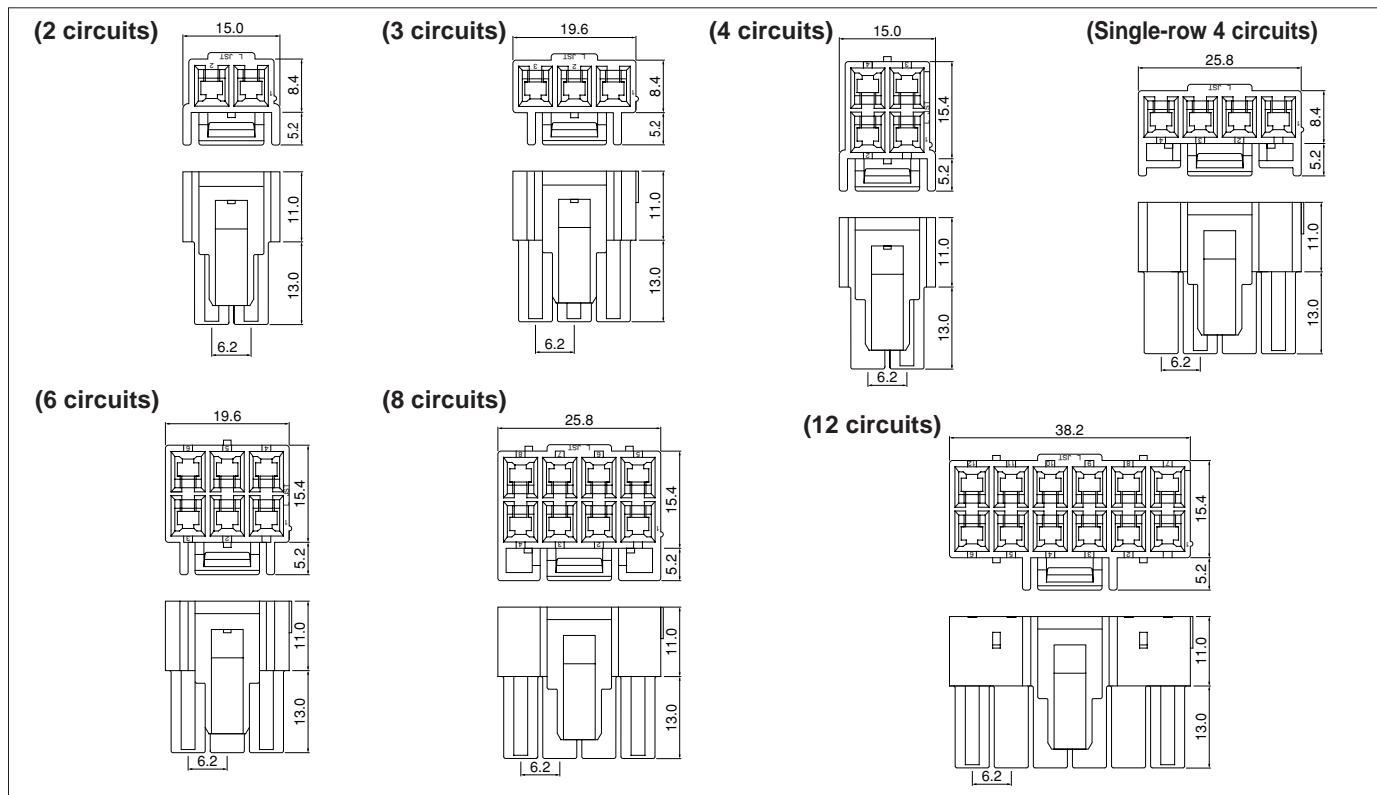
Circuits	Model No.	Q'ty / bag
2	VLP-02V	500
3	VLP-03V	500
4	VLP-04V	500
6	VLP-06V	500
8	VLP-08V	200
12	VLP-12V	100

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Housing (Outer-housing lock)



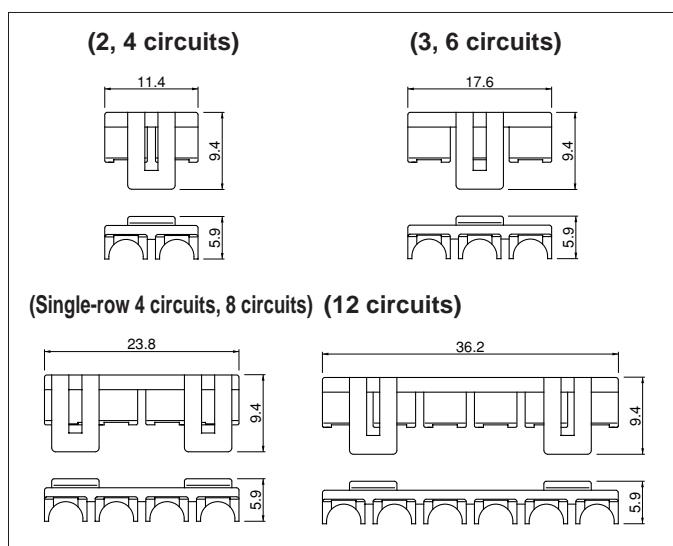
Circuits	Model No.	Q'ty / bag
2	VLP-02V-1	500
3	VLP-03V-1	500
4	VLP-04V-1	500
4(single-row)	VLP-04VN-1	500
6	VLP-06V-1	500
8	VLP-08V-1	200
12	VLP-12V-1	100

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Retainer



Cir-cuits	Model No.	Q'ty / bag
2, 4	VLS-02V	1,000
3, 6	VLS-03V	1,000
4(single-row),8	VLS-08V	1,000
12	VLS-12V	1,000

Material

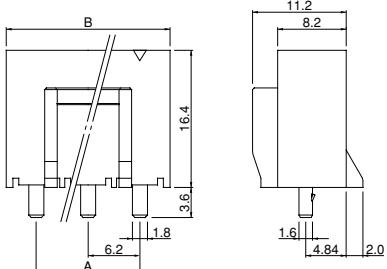
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

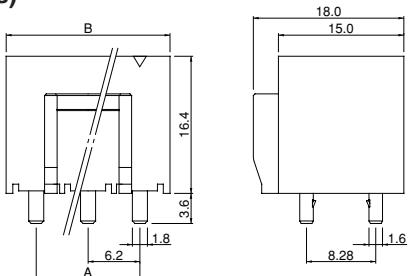
VL CONNECTOR

Shrouded header

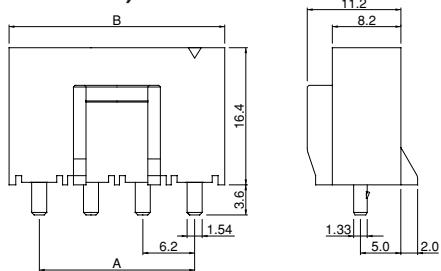
(2, 3 circuits)



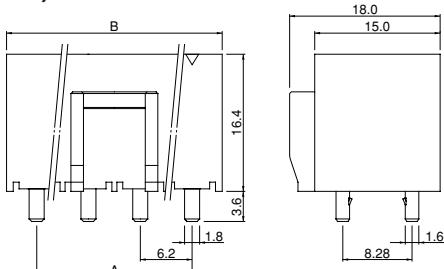
(4, 6 circuits)



(Single-row 4 circuits)



(8, 12 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B02P-VL	6.2	13.4	100
3	B03P-VL	12.4	19.6	100
4	B04P-VL	6.2	13.4	100
4(single-row)	B04P-VL-VN-1.8	18.6	26.2	100
6	B06P-VL	12.4	19.6	50
8	B08P-VL	18.6	26.2	50
12	B12P-VL	31.0	38.6	40

Material and Finish

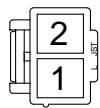
Post: Copper-alloy, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

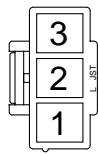
Contact position location numbers

<Inner-housing lock>

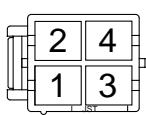
(2 circuits)



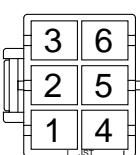
(3 circuits)



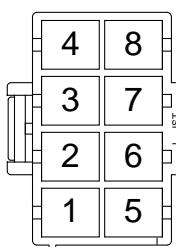
(4 circuits)



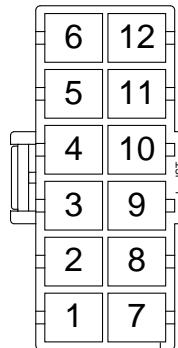
(6 circuits)



(8 circuits)

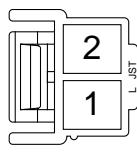


(12 circuits)

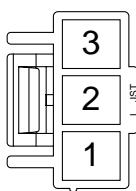


<Outer-housing lock>

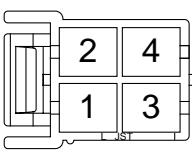
(2 circuits)



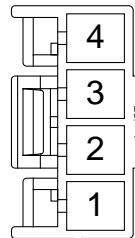
(3 circuits)



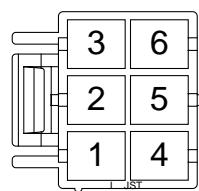
(4 circuits)



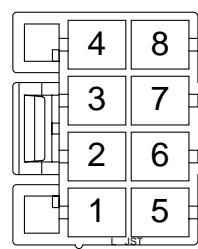
(Single-row
4 circuits)



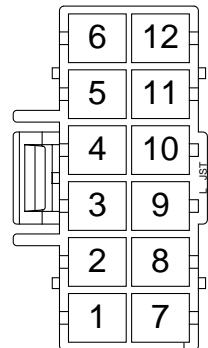
(6 circuits)



(8 circuits)



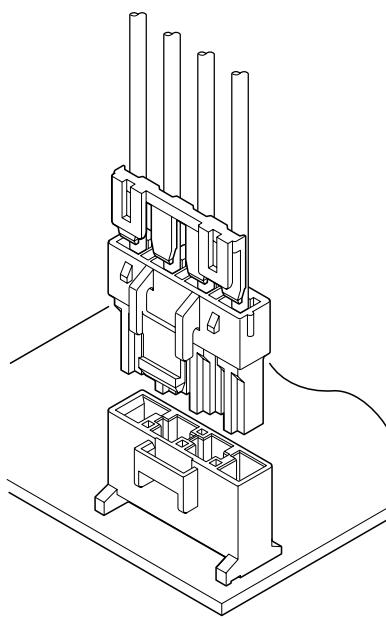
(12 circuits)





VYH CONNECTOR

6.5mm pitch/Disconnectable Crimp style connectors

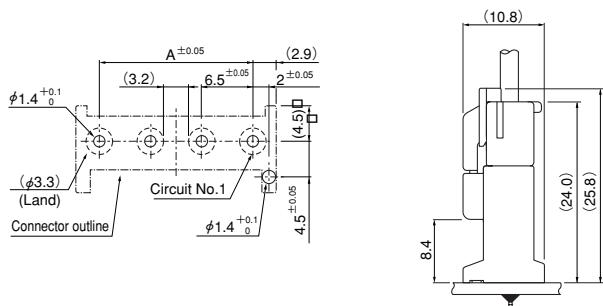


This VYH connector is designed for wire-to-board 6.5mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safely.

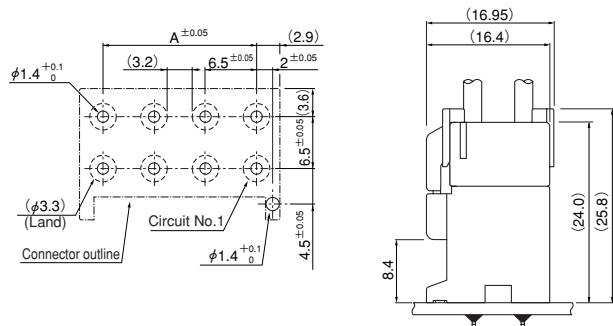
- Corresponding to large current
- Misinsertion prevention
- Housing lance for contact retention
- Secondary retainer

PC board layout (viewed from component side) and Assembly layout

Single-row type



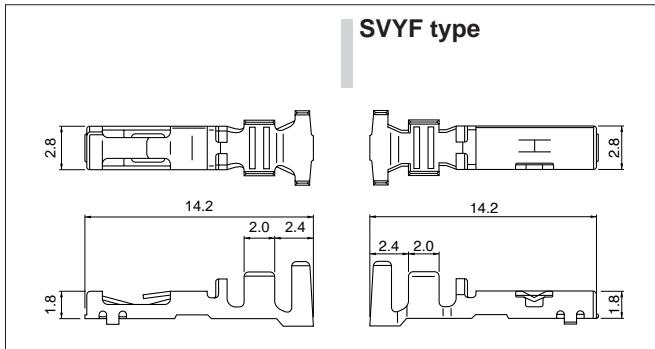
Double-row type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SYF-01T-P0.5A	0.13~0.5	26~20	1.3~2.5	4,000
SYF-41T-P0.5A	0.5 ~1.25	20~16	2.0~3.4	4,000
SYF-61T-P0.5A	0.75~2.0	18~14	2.1~3.4	2,000
*SVYF-41T-P0.5A-13.5	0.5 ~1.25	20~16	2.0~3.4	4,000
*SVYF-61T-P0.5A	0.75~2.0	18~14	2.1~3.6	2,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

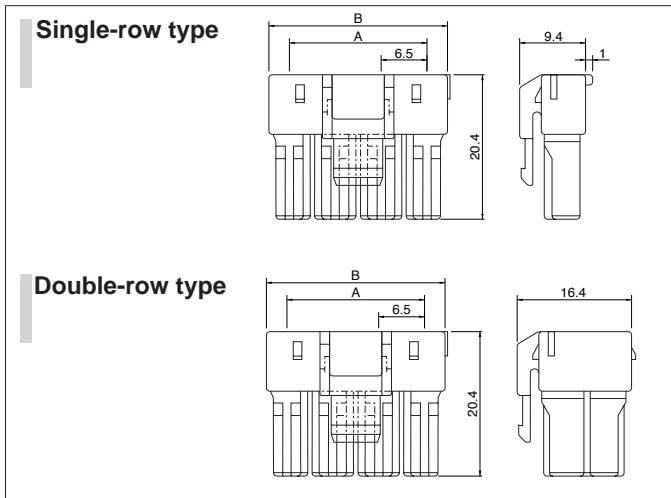
- Note: 1. SVYF type contact was developed only for VYH connector in order to improve the prevention of prying.
 2. Retainer cannot be used when using 41 type contact AWG#16 and 61 type contact.
 3. *Marked products are not TÜV approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYF-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYF-61T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-61-05	APLMK SYF/M61-05
		—	—	—
SVYF-61T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-61-05	APLMK SYF/M61-05
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYF-41T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05
SVYF-41T-P0.5A-13.5	AP-K2N	MKS-L	MK/SYF-41-05-13.5	APLMK SYF41-05-13.5
		—	—	—

Note: *Strip-crimp applicator

Housing



Type	Cir-cuits	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
Single-row type	2	VYHP-02V	6.5	12.3	400
	3	VYHP-03V	13.0	18.8	300
	4	VYHP-04V	19.5	25.3	200
Double-row type	4	VYHP-04VD	6.5	12.3	200
	6	VYHP-06VD	13.0	18.8	150

Material

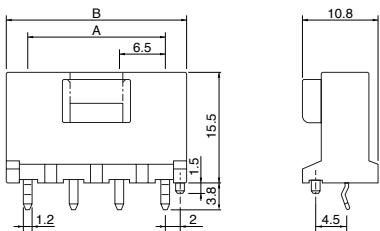
PA 66, UL94V-0, natural (white)

RoHS compliance

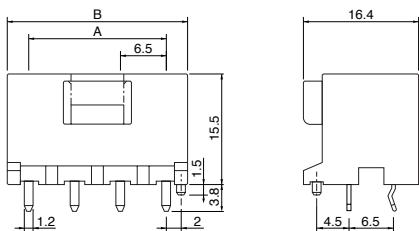
VYH CONNECTOR

Shrouded header

Single-row type



Double-row type



Type	Cir-cuits	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
Single-row type	2	B02B-VYHSK-1	6.5	12.3	400
	3	B03B-VYHSK-1	13.0	18.8	300
	4	B04B-VYHSK-1	19.5	25.3	200
Double-row type	4	B04B-VYHSK-D-1	6.5	12.3	200
	6	B06B-VYHSK-D-1	13.0	18.8	150

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Type	Cir-cuits	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
Single-row type	2	B02B-VYHSK-M-1	6.5	12.3	400
	3	B03B-VYHSK-M-1	13.0	18.8	300
	4	B04B-VYHSK-M-1	19.5	25.3	200
Double-row type	4	B04B-VYHSK-DM-1	6.5	12.3	200
	6	B06B-VYHSK-DM-1	13.0	18.8	150

Material and Finish

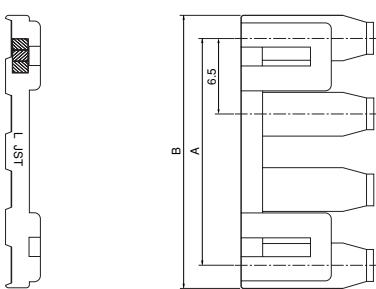
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

Note: Not UL/TÜV approved.

Retainer



Cir-cuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	VYHS-02V-S	6.5	10.3	4,000
3	VYHS-03V-S	13.0	16.8	3,000
4	VYHS-04V-S	19.5	23.3	2,000

Material

Glass-filled PA 66, UL94V-0, natural (ivory)

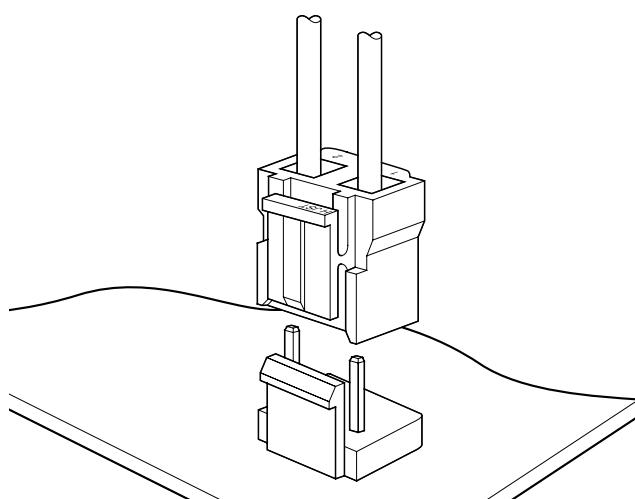
RoHS compliance

Note: Not TÜV approved.



VA CONNECTOR

7.92mm pitch/Disconnectable Crimp style connectors



This 7.92mm pitch large current carrying capacity connector is used with primary power supply circuits and various other circuits requiring large currents. It features an anti-misinsertion construction and a reliable locking mechanism to ensure maximum safety.

- **Box contact**
- **Secure contact and mounting**
- **Compact connector with a large capacity**

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,200V AC/minute
- Applicable wire: AWG #20 to #18
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

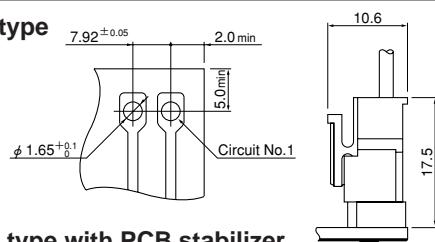
■ Recognized E60389

■ Certified LR20812

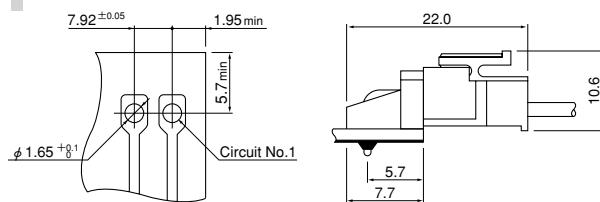
△ R75122

PC board layout (viewed from soldering side) and Assembly layout

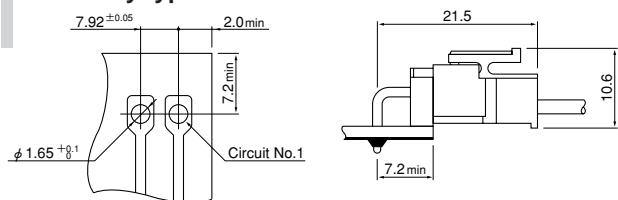
Top entry type



Side entry type with PCB stabilizer

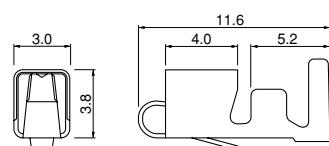


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SVA-41T-P1.1	0.5~0.83	20~18	1.9~3.7	3,500

Material and Finish

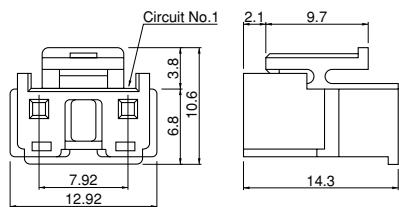
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVA-41T-P1.1	AP-K2N	MKS-L	MK/SVA-41-11	APLMK SVA41-11

VA CONNECTOR

Housing



Circuits	Model No.	Q'ty / bag
2	VAR-2	1,000

Material

PA 6, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

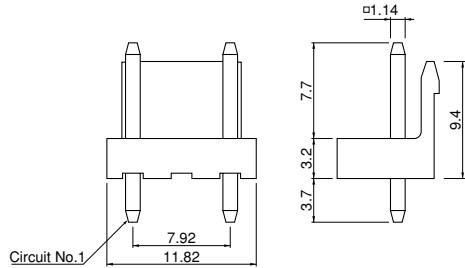
ex. **VAR-2-oo**

(blank)...natural (white)

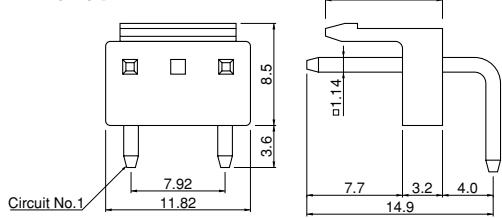
K...black R...red E...blue Y...yellow M...green N...brown

Locking header

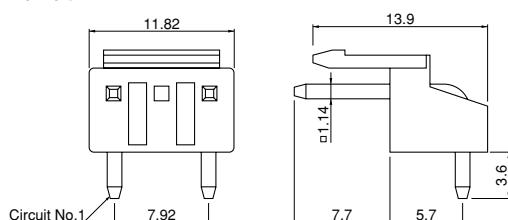
Top entry type



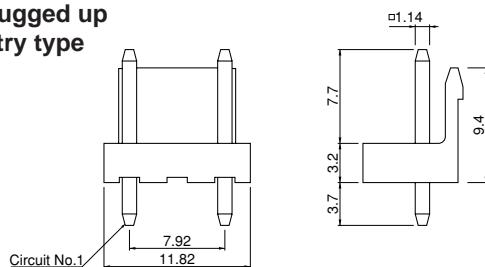
Side entry type



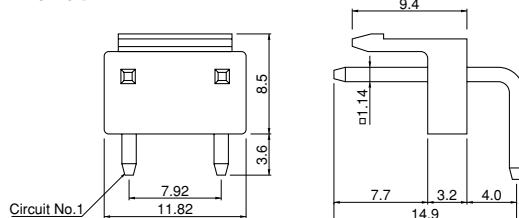
Side entry type with PCB stabilizer



With plugged up Top entry type



Side entry type



	Circuits	Model No.	Q'ty / box
--	----------	-----------	------------

Top entry type	2	B2P3-VH	1,000
Side entry type	2	B2P3S-VH	500
Side entry type with PCB stabilizer	2	S2P3-VH	500

With plugged up

	Circuits	Model No.	Q'ty / box
Top entry type	2	*B2P-VA	1,000
Side entry type	2	*B2PS-VA	500

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

This product displays (LF)(SN) on a label.

Note: *Marked products are not CSA/TÜV approved.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B2P3(S)-VH-oo**

(blank)...natural (white)

BK...black R...red BL...blue Y...yellow M...green N...brown
O...orange PK...pink P...purple H...gray

ex. **S2P3-VH-oo**

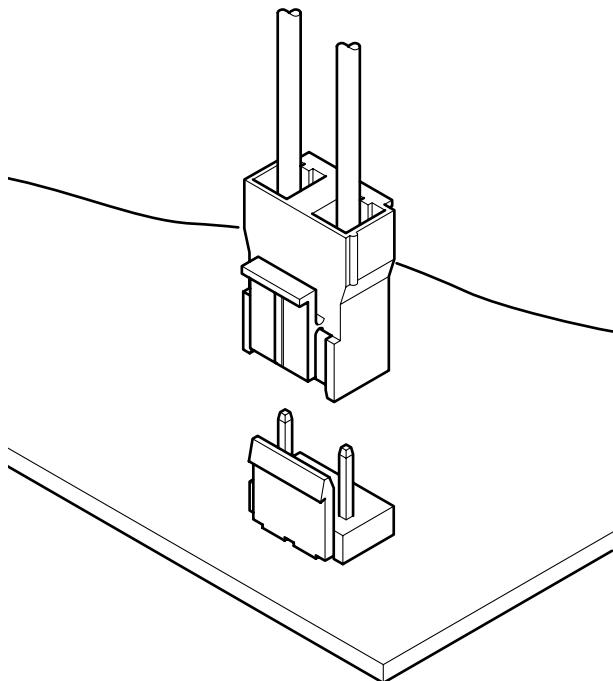
(blank)...natural (white)

BK...black R...red Y...yellow M...green



NVA CONNECTOR

7.92mm pitch/Disconnectable Crimp style connectors



7.92mm pitch crimp style, large current carrying capacity connector, that is best suited for various kinds of power supply circuits. Box-shaped contacts offer reliable connection.

- **Housing lances**
- **Box contact**
- **Secure contact and mounting**
- **Applicable up to 10A**

Specifications

- Current rating: 10A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #20 to #16
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105°C.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

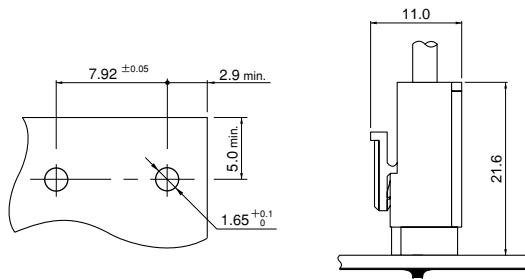
Standards

Recognized E60389

Certified LR20812

R9251675

PC board layout (viewed from component side) and Assembly layout

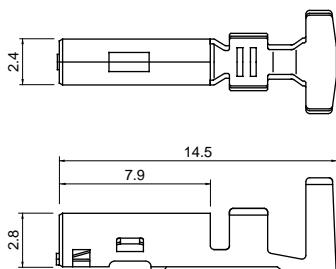


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

NVA CONNECTOR

Contact



Model No.	AWG #	Insulation O.D.(mm)	Q'ty / reel
SVT-41T-P1.1	20 ~16	3.9~2.7	2,500

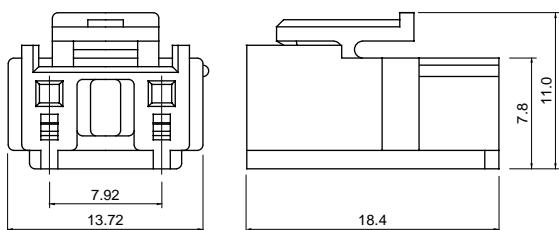
Material and Finish

Alloy (phosphor bronze system), tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVT-41T-P1.1	AP-K2N	MKS-L	MK/SVT-41-11	APLMK SVT41-11

Housing



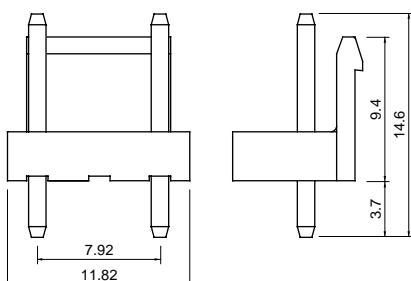
Circuit	Model No.	Q'ty / bag
2	NVAR-02VS	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Locking header



Circuit	Model No.	Q'ty / box
2	B2P3-VH	1,000

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

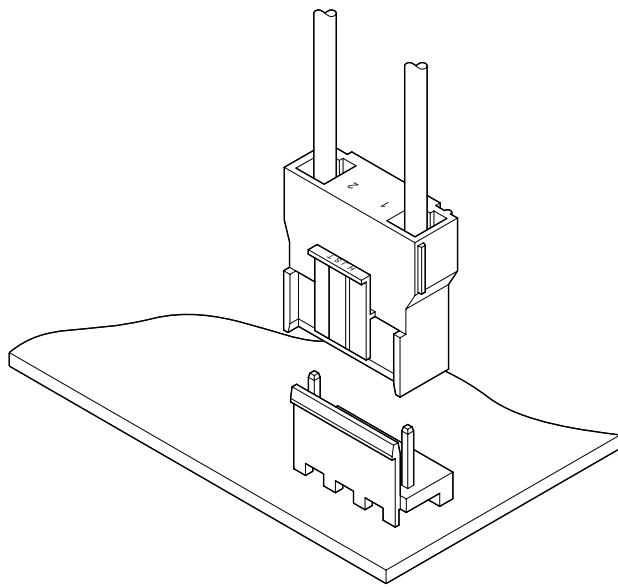
RoHS compliance

This product displays (LF)(SN) on a label.



VT CONNECTOR

11.88mm pitch/Disconnectable Crimp style connectors



The VT connector is a 11.88mm pitch disconnectable crimp style connector with current rating of 12A. It has features such as the PC board locking device, misinsertion preventive construction and arm-lock mechanism. Its header is applicable to reinforced PC boards with eyelets.

- Connectable to vinyl insulated flat cables
- Use of PC board locking device
- Correct and secure mating
- Applicable to reinforced PC boards with eyelets

Specifications

- Current rating: 12A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10mΩ max.
After environmental testing/20mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #20 to #16
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

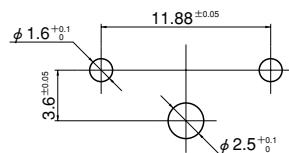
Standards

■ Recognized E60389

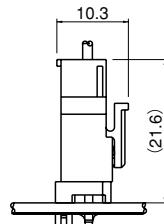
■ Certified LR20812

△ R9151561

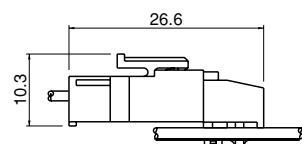
PC board layout (viewed from component side) and Assembly layout



Top entry type



Side entry type

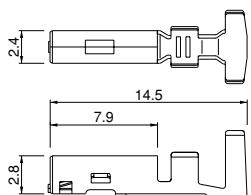


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

VT CONNECTOR

Contact



Model No.	Applicable wire		Q'ty / reel
	AWG #	Insulation O.D. (mm)	
SVT-41T-P1.1	20~16	2.7 ~3.9	2,500

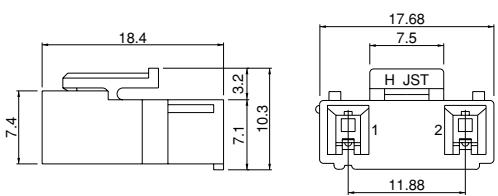
Material and Finish

Alloy (phosphor bronze system), tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVT-41T-P1.1	AP-K2N	MKS-L	MK/SVT-41-11	APLMK SVT41-11

Housing



Circuits	Model No.		Q'ty / bag
	2	VTR-02	

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

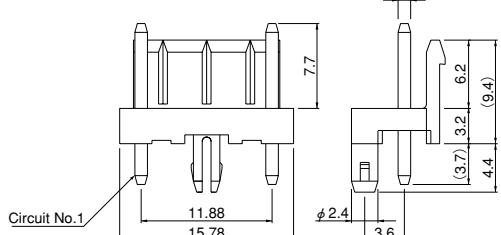
ex. **VTR-02-oo**

(blank)...natural (white)

Z...ivory

Locking header

Top entry type



Circuits	Model No.		Q'ty / box	
	Top entry type	Side entry type	Top entry type	Side entry type
2	B02B-VT	S02B-VT	500	250

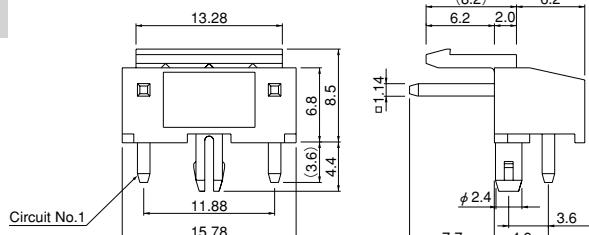
Material and Finish

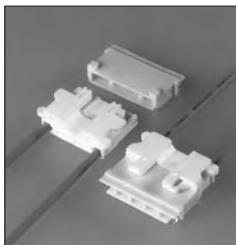
Post: Copper, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

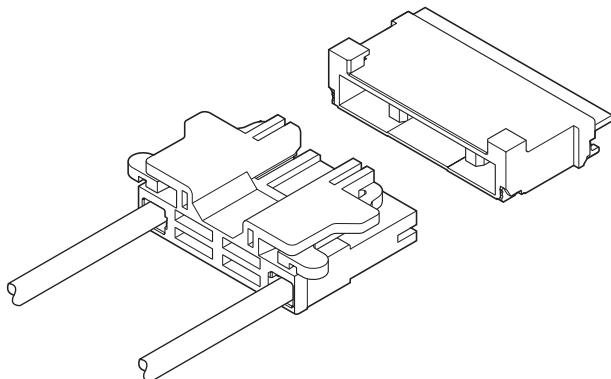
Side entry type





BD CONNECTOR (13mm)

13.0mm pitch/Disconnectable Crimp style connectors



Board-to-wire crimping type connector with high withstand voltage, used for power supply of large LCD (Liquid Crystal Display or Liquid Crystal Television) back light. Secure locking mechanism prevents from coming off housing when handling the wire harness.

- **Secure locking mechanism**
- **Space saving**
- **High withstand voltage design**
- **Crimping special wire**

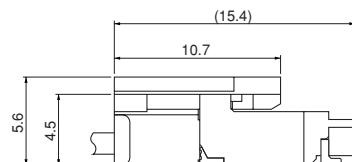
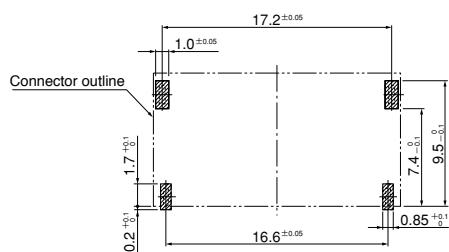
Specifications

- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 3,000V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 5,000V AC/minute
- Applicable wire: AWG #28 to #24
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

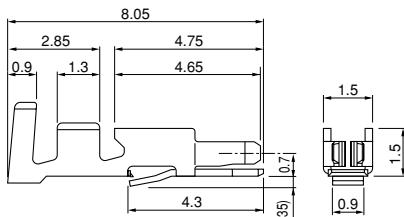
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

BD CONNECTOR (13mm)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SBHS-002T-P0.5A	0.08~0.22	28~24	0.9~1.7	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

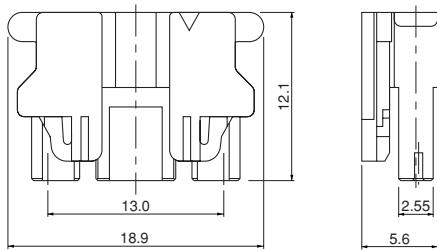
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05-BDA	APLMK SBHS002-05-BDA

Note: When using this housing, standard applicator and dies for SBHS contact can not be applied.

Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



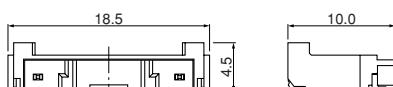
Circuits	Model No.	Q'ty / bag
2	BDAMR-02VAS-3	1,000

Material

PBT·UL94V-0, natural (white)

RoHS compliance

Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02-BDAS-3-TB	1,500

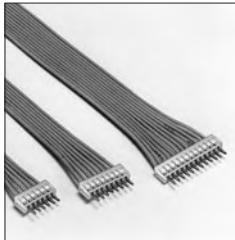
Material and Finish

Press post: Copper alloy, nickel-undercoated, tin/copper alloy-plated
Wafer: PPA, UL94V-0, natural (ivory)
Solder tab: Copper alloy, nickel-undercoated, tin/copper alloy-plated

RoHS compliance

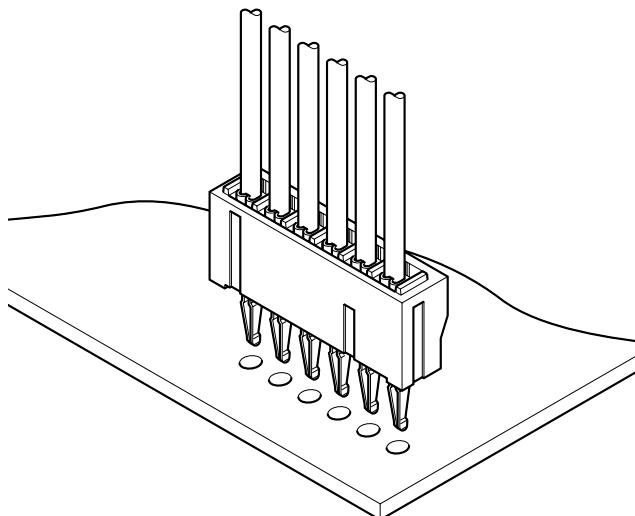
This product displays (LF) on a label.

Note: The product listed above is supplied on embossed tape.



SZN CONNECTOR

1.5mm pitch/Board-in crimp style connectors



This low-profile, board-in connector, with a mounting height of only 4.25mm and a thickness of 2.4mm, is soldered directly onto printed circuit boards. The solder tail of the contact is resilient for easy assembly. The housing lances facilitate insertion of contacts.

- Slim, low-profile design
- Housing lances
- Easy mounting onto printed circuit boards
- Rugged contact construction

Specifications

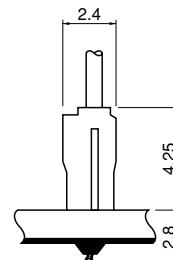
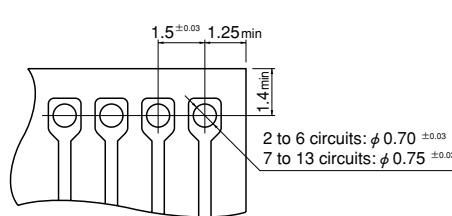
- Current rating: 0.7A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #30 to #26
- Applicable PC board thickness: 0.6 to 1.2mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

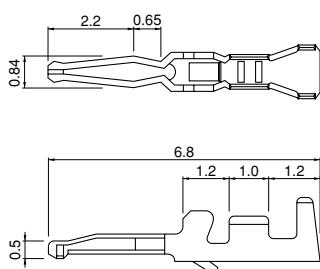


Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

SZN CONNECTOR

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZN-002T-P0.7K	AP-K2N	MKS-L	MK/SZN-002-07	APLMK SZN002-07

Note: *Strip-crimp applicator

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm ²	AWG#		
SZN-002T-P0.7K	0.08~0.13	28~26	0.8~1.1	14,000
SZN-003T-P0.7K	0.05~0.08	30~28	0.7~0.9	15,000

Material and Finish

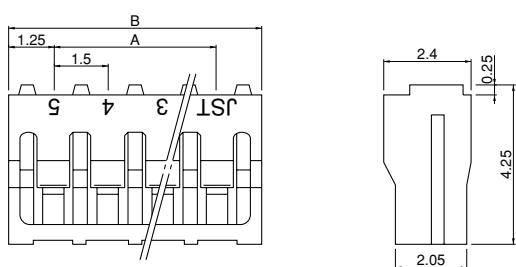
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZN-003T-P0.7K	AP-K2N	MKS-L *MKS-SC	MK/SZN-003-07 SC/SZN-003-07	APLMK SZN003-07 APLSC SZN003-07

Housing

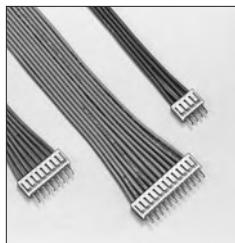


Circuits	Model No.	Dimensions (mm)		Q'ty /bag
		A	B	
2	2P-SZN	1.5	4.0	1,000
3	3P-SZN	3.0	5.5	1,000
4	4P-SZN	4.5	7.0	1,000
5	5P-SZN	6.0	8.5	1,000
6	6P-SZN	7.5	10.0	1,000
7	7P-SZN	9.0	11.5	1,000
8	8P-SZN	10.5	13.0	1,000
9	9P-SZN	12.0	14.5	1,000
10	10P-SZN	13.5	16.0	1,000
11	11P-SZN	15.0	17.5	1,000
12	12P-SZN	16.5	19.0	1,000
13	13P-SZN	18.0	20.5	1,000

Material

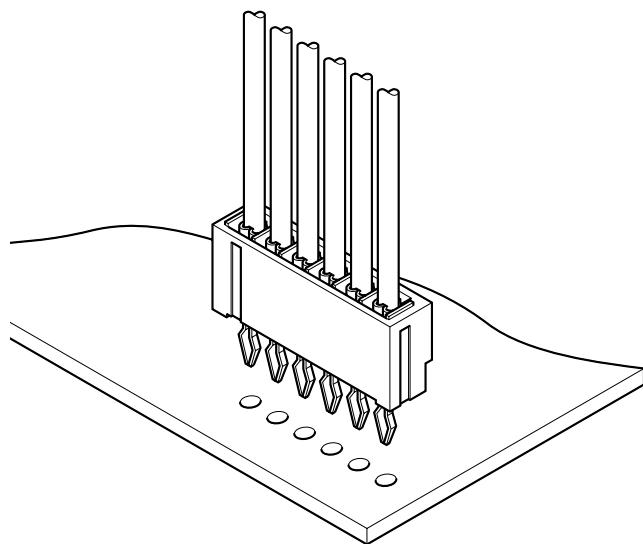
PA 66, UL94V-0, natural (white)

RoHS compliance



SAN CONNECTOR

2.0mm pitch/Board-in Crimp style connectors



Measuring 2.0mm in pitch, 6.0mm in mounting height, and 3.25mm in thickness, this board-in connector meets the needs for high-density mounting on printed circuit boards efficiently and economically. The connector is ideal for VCRs, car stereo systems, audio products and many other consumer oriented electronic products.

- Compact
- Housing lances
- Easy mounting onto printed circuit boards
- Two types of contacts

Specifications

- Current rating: 2A AC, DC (AWG #24)
 - Voltage rating: 250V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 800V AC/minute
 - Applicable wire: AWG #30 to #24
 - Applicable PC board thickness:
 - Type A contact: 1.2mm, 1.6mm
 - Type B contact: 1.6mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

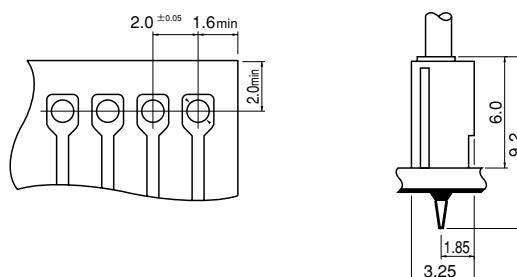
Standards

Recognized E60389

Certified LR20812

R9251673

PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

*Type A 0.8^{+0.1}_{-0.05} dia.

*Type B 2 to 7 circuits: 0.75 ±0.05 dia.

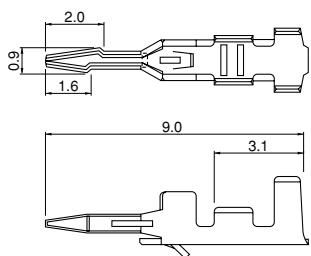
8 to 15 circuits: 0.85 ±0.05 dia.

2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

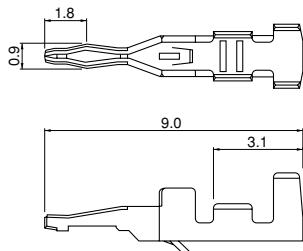
SAN CONNECTOR

Contact

Type A



Type B



Model No.	Type	Applicable wire		Insulation O.D.(mm)	Q'ty/ reel
		mm ²	AWG #		
SAN-002T-0.8A	A	0.05~0.22	30~24	0.9~1.3	14,000
SAN-002T-0.8K	B				

Material and Finish

Brass, tin-plated (reflow treatment)

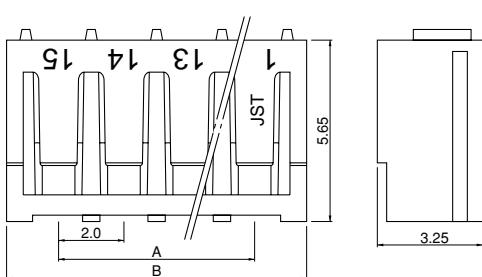
RoHS compliance

Note: Contact JST if you require shielded wires, thin wires or other special wires.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SAN-002T-0.8A	MKS-LS • MKS-L	MKS-SC	MK/SAN-002-08	APLMK SAN002-08
SAN-002T-0.8K	AP-K2N	*MKS-SC	SC/SAN-002-08	APLSC SAN002-08

Note: *Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	2P-SAN	2.0	5.2	1,000
3	3P-SAN	4.0	7.2	1,000
4	4P-SAN	6.0	9.2	1,000
5	5P-SAN	8.0	11.2	1,000
6	6P-SAN	10.0	13.2	1,000
7	7P-SAN	12.0	15.2	1,000
8	8P-SAN	14.0	17.2	1,000
9	9P-SAN	16.0	19.2	1,000
10	10P-SAN	18.0	21.2	1,000
11	11P-SAN	20.0	23.2	1,000
12	12P-SAN	22.0	25.2	1,000
13	13P-SAN	24.0	27.2	1,000
14	14P-SAN	26.0	29.2	1,000
15	15P-SAN	28.0	31.2	1,000

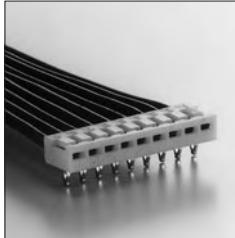
Material

PA 66, UL94V-0, yellow

RoHS compliance

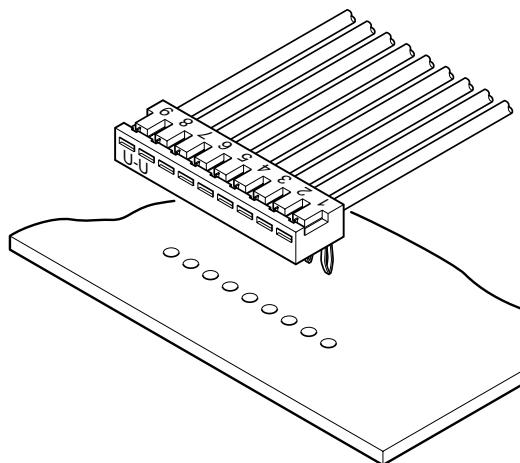
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **2P-SAN-q**
(blank)...yellow K...black W...white R...red



SJN CONNECTOR

2.0mm pitch/Board-in Crimp style connectors



Side entry type board-in connector, with a mounting height of only 2.8mm and a thickness of 4.9mm.

- **Housing lances**
- **Easy mounting onto printed circuit boards**

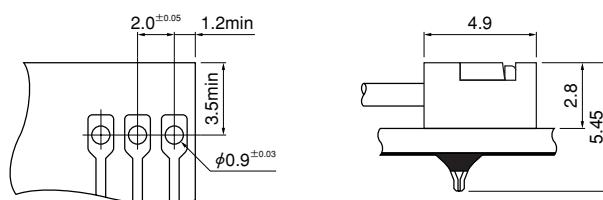
Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.2 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

- Recognized E60389

PC board layout (viewed from soldering side) and Assembly layout

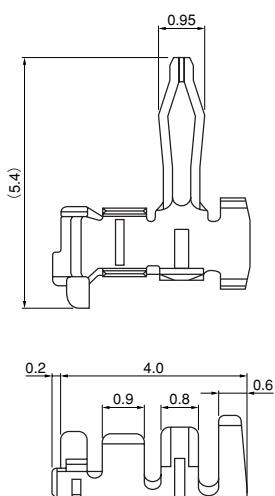


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

SJN CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty/reel
	mm ²	AWG #		
SJN-001PT-0.9	0.20~0.33	24~22	1.1~1.4	15,000
SJN-002PT-0.9	0.08~0.22	28~24	0.9~1.4	18,000

Material and Finish

Brass, tin-plated (reflow treatment)

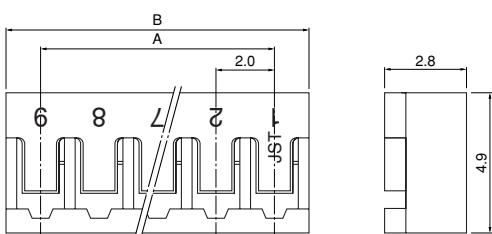
RoHS compliance

Note:

Contact JST if you require shielded wires, thin wires or other special wires.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SJN-001PT-0.9	AP-K2N	MKS-L	MK/SJN-001-09	APLMK SJN001-09
		—	—	—
SJN-002PT-0.9	AP-K2N	MKS-L	MK/SJN-002-09	APLMK SJN002-09
		—	—	—

Housing

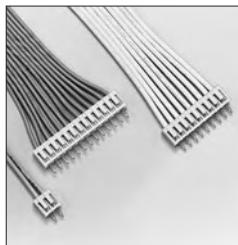


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	02P-SJN	2.0	4.4	2,000
3	03P-SJN	4.0	6.4	1,000
4	04P-SJN	6.0	8.4	1,000
6	06P-SJN	10.0	12.4	1,000
7	07P-SJN	12.0	14.4	1,000
8	08P-SJN	14.0	16.4	1,000
9	09P-SJN	16.0	18.4	1,000
10	10P-SJN	18.0	20.4	1,000

Material

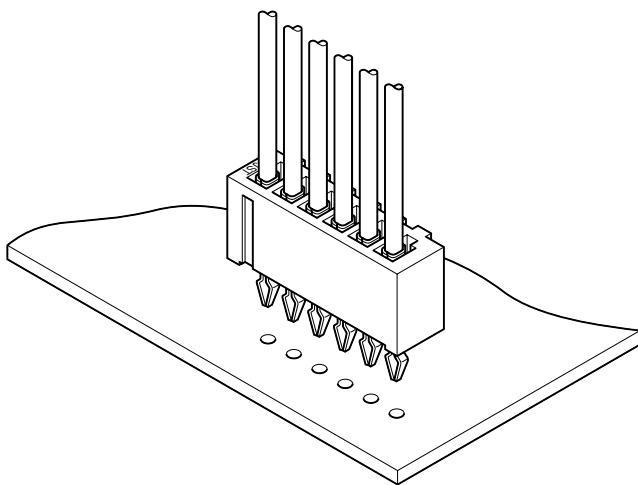
PA 66, UL94V-0, natural (white)

RoHS compliance



SCN CONNECTOR

2.5mm pitch/Board-in Crimp style connectors



This 2.5mm pitch multi-circuit board-in connector meets the needs for high-density mounting on printed circuit boards efficiently and economically. The connector can be used for VCRs, car stereo systems, audio products, and many other consumer-oriented electronic products.

- **Housing lances**
- **Secure mounting on printed circuit boards**
- **Two types of contacts**

Specifications

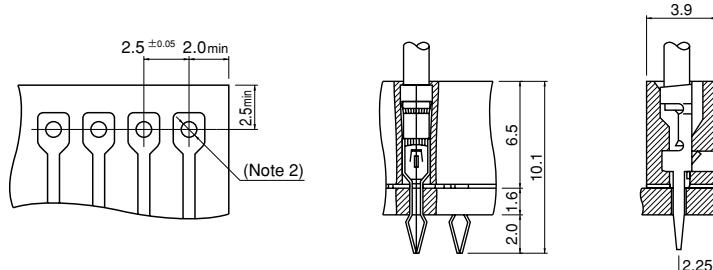
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.2mm, 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Applicable PC board thickness: Type A 1.6mm
Type B 1.6mm and 1.2mm.
2. Tolerances are non-cumulative: ±0.05mm
Type A: 1.0±0.05mm dia.
Type B: 2 to 6 circuits/1.0±0.05mm dia.

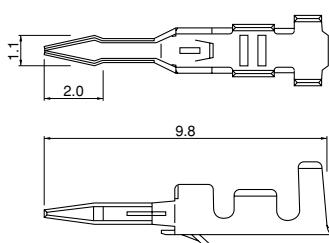
7 circuits and more/Hole dimensions differ from the above values. Contact JST for details.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

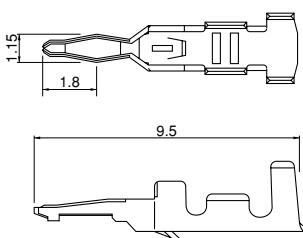
SCN CONNECTOR

Contact

Type A



Type B



Model No.	Type	Applicable wire		Insulation O.D. (mm)	Material	Q'ty / reel
		mm ²	AWG #			
SCN-001T-P1.0	A	0.08~0.33	28~22	0.9~1.7	Phosphor bronze	
SCN-001T-1.0K	B				Brass	11,000

Finish

Tin-plated (reflow treatment)

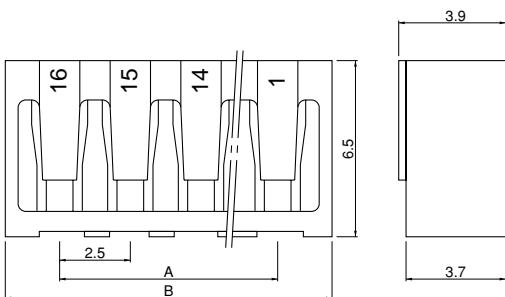
RoHS compliance

Note: 1. Contact JST if you require shielded wires, thin wires or other special wires.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCN-001T-P1.0	MKS-LS • MKS-L	MK/SCN-001-10	APLMK SCN001-10	
SCN-001T-1.0K	AP-K2N *MKS-SC	SC/SCN-001-10	APLSC SCN001-10	

Note: *Strip-crimp applicator

Housing



Cir-cuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	2P-SCN	2.5	6.5	1,000
3	3P-SCN	5.0	9.0	1,000
4	4P-SCN	7.5	11.5	1,000
5	5P-SCN	10.0	14.0	1,000
6	6P-SCN	12.5	16.5	1,000
7	7P-SCN	15.0	19.0	1,000
8	8P-SCN	17.5	21.5	1,000
9	9P-SCN	20.0	24.0	1,000
10	10P-SCN	22.5	26.5	1,000
11	11P-SCN	25.0	29.0	1,000
12	12P-SCN	27.5	31.5	1,000
13	13P-SCN	30.0	34.0	1,000
14	14P-SCN	32.5	36.5	1,000
15	15P-SCN	35.0	39.0	1,000
16	16P-SCN	37.5	41.5	1,000

Material

PA 66, UL94V-0, ivory

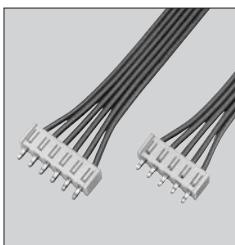
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **2P-SCN-oo**

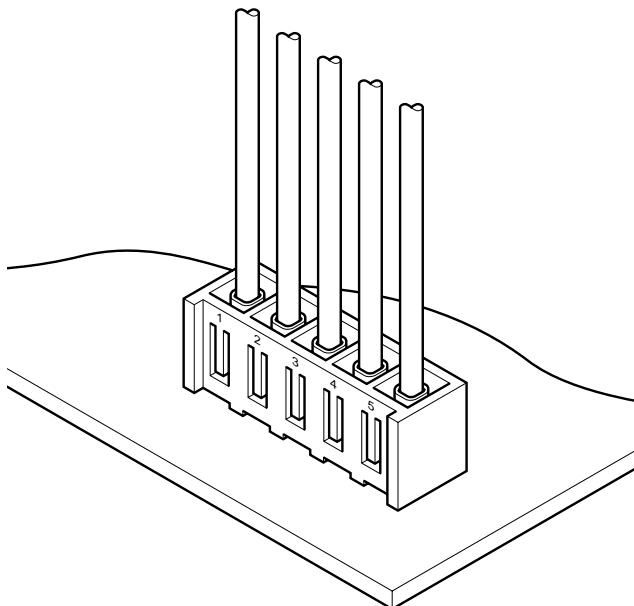
(blank)...ivory

K...black R...red Y...yellow



SDN CONNECTOR

3.96mm pitch/Board-in Crimp style connectors



The SDN connector is a 3.96mm pitch board-in crimp style connector capable of connecting a wide variety of circuits including signal and power supply circuits. The connector features a slim, low-profile design. In addition, it has an exclusive lance construction to reduce insertion force, thus substantially improving the working efficiency in mounting the contact.

- Slim, low-profile design
- Easy and secure contact mounting
- Improved solderability
- Polarizing boss

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105°C.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

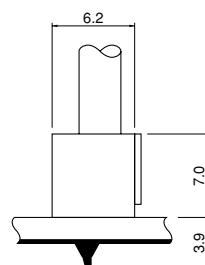
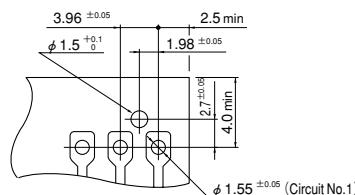
Standards

■ Recognized E60389

■ Certified LR20812

△ R50100763

PC board layout (viewed from soldering side) and Assembly layout

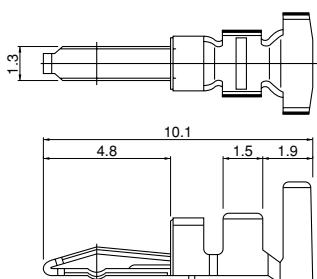


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers. For connectors with 5 or more circuits the hole dimensions will differ from the above values. Contact JST for details.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.

SDN CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
	mm ²	AWG #		
SDN-21T-P1.5	0.33~0.83	22~18	1.6~3.0	5,000

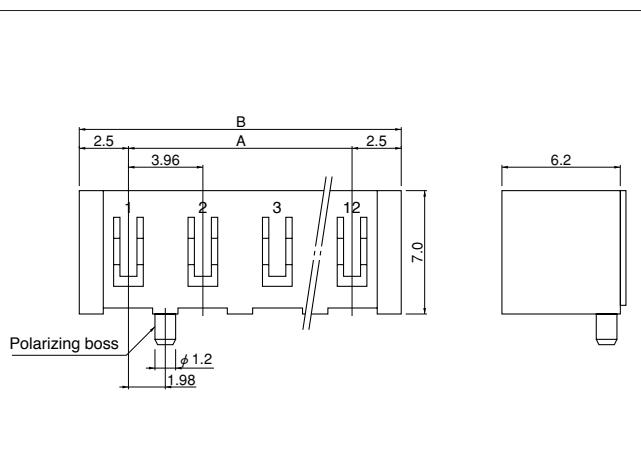
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SDN-21T-P1.5	AP-K2N	MKS-L	MK/SDN-21-15	APLMK SDN21-15

Housing



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / bag
	With polarizing boss	Without polarizing boss	A	B	
2	2P-SDN	2P-SDN-A	3.96	8.96	1,000
3	3P-SDN	3P-SDN-A	7.92	12.92	1,000
4	4P-SDN	4P-SDN-A	11.88	16.88	1,000
5	5P-SDN	5P-SDN-A	15.84	20.84	1,000
6	6P-SDN	6P-SDN-A	19.80	24.80	500
7	7P-SDN	7P-SDN-A	23.76	28.76	500
8	8P-SDN	8P-SDN-A	27.72	32.72	500
9	9P-SDN	9P-SDN-A	31.68	36.68	500
10	10P-SDN	10P-SDN-A	35.64	40.64	500
11	11P-SDN	11P-SDN-A	39.60	44.60	500
12	12P-SDN	12P-SDN-A	43.56	48.56	500

Material

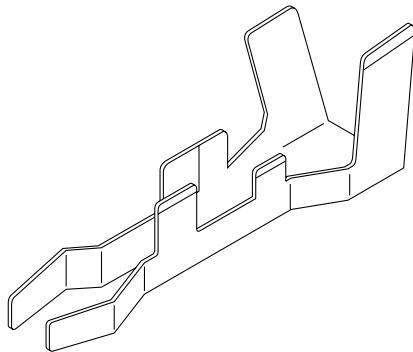
PA 66, UL94V-0, natural (white)

RoHS compliance



SIN TERMINAL

Single-circuit/Board-in Crimp style terminals



It is time consuming to directly solder the many wires that are required on densely packed printed circuit boards.

The SIN terminal is crimped to a wire, inserted into a hole in a printed circuit board, then soldered. Solderability is enhanced because solder does not enter the wire, thus ensuring a safe and secure connection.

This terminal is ideal for permanent connection of jumper wires onto a printed circuit board or for connection to external circuits.

Specifications

- Current rating: Depends on applicable wires
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Applicable wire: AWG #30 to #12
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

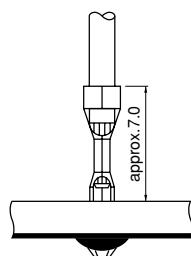
Standards

Recognized E60389

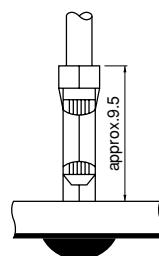
Certified LR20812

Assembly layout

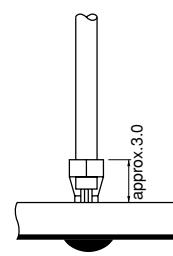
SIN-001T-1.2B



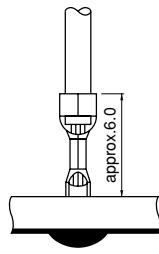
SIN-21T-1.8



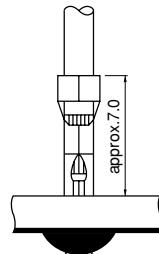
SIN-002T-1.0
SIN-002T-1.2N



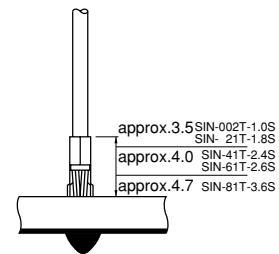
SIN-001T-1.2
SIN-01T-1.2



SIN-01T-1.8
SIN-01T-1.8N

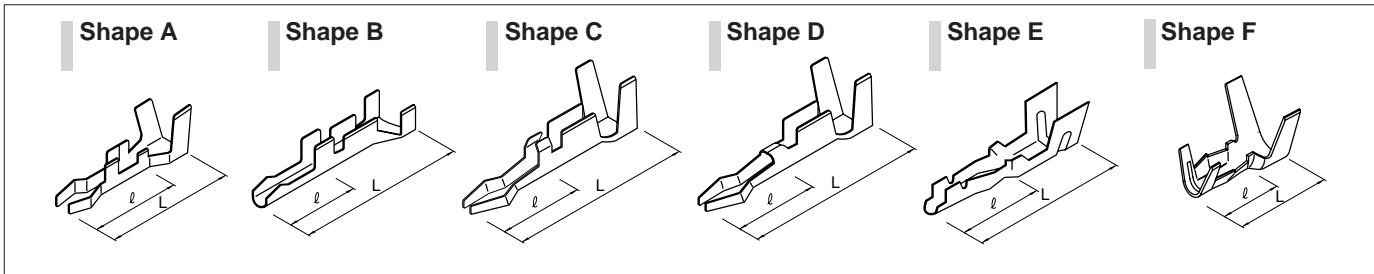


SIN-002T-1.0S SIN-41T-2.4S
SIN-21T-1.8S SIN-61T-2.6S
SIN-81T-3.6S



SIN TERMINAL

Terminal



Model No.	Shape	Applicable wire		Insulation O.D. (mm)	L(mm)	l(mm)	Applicable PCB		Q'ty / reel
		mm ²	AWG #				Thickness(mm)	Hole diameter(mm)	
SIN-002T-1.0	A	0.08~0.13	28~26	0.8~1.3	5.8	3.1	1.6	1.0 ^{+0.05} _{-0.05}	9,000
SIN-002T-1.2N		0.08~0.13	28~26	0.9~1.4	6.0	3.3		1.2 ^{+0.05} _{-0.05}	9,000
SIN-01T-1.8	C	0.13~0.5	26~20	1.2~2.5	10.0	3.55		1.8 ^{+0.1} _{-0.1}	7,000
SIN-001T-1.2B	D	0.05~0.22	30~24	0.9~1.5	10.0	3.5	1.6	1.2 ^{+0.05} _{-0.05}	11,000
SIN-21T-1.8		0.30~0.83	22~18	1.7~3.8	12.6	3.6		1.8 ^{+0.1} _{-0.1}	3,000
SIN-002T-1.0S	E	0.08~0.13	28~26	0.8~1.3	7.0	3.5	1.2~1.6	1.0 ^{+0.05} _{-0.05}	13,000
*SIN-21T-1.8S	F	0.30~0.83	22~18	1.5~3.0	7.6	4.1		1.8 ^{+0.1} _{-0.1}	4,500
*SIN-41T-2.4S		0.83~1.31	18,16	2.8~3.4	8.3	4.3	1.6	2.4 ^{+0.05} _{-0.05}	3,000
*SIN-61T-2.6S		2.0	14	3.4~3.8	8.3	4.3		2.5 ^{+0.1} _{-0.1}	3,000
*SIN-81T-3.6S		3.3	12	4.0~4.2	9.2	4.5		3.55 ^{+0.05} _{-0.05}	2,000

Material and Finish

Brass, tin-plated (reflow treatment)

Model No.	Shape	Applicable wire		Insulation O.D. (mm)	L(mm)	l(mm)	Applicable PCB		Q'ty / reel
		mm ²	AWG #				Thickness(mm)	Hole diameter(mm)	
SIN-001T-1.2	B	0.05~0.15	30~26	0.8~1.4	9.1	3.05	1.2	(1.20)	7,500
SIN-01T-1.2		0.2 ~0.5	24~20	1.5~2.3	9.1	3.05			5,000
SIN-01T-1.8N	C	0.13~0.5	26~20	1.2~2.5	10.0	3.55	1.6	1.8 ^{+0.1} _{-0.1}	7,000

Material and Finish

Brass, copper-undercoated, tin-plated

RoHS compliance

- Note: 1. The SIN-01T-1.8N terminal requires less force for insertion into a PC board.
2. *marked terminals are for the use of larger wires (Wire conductors are to be soldered). Contact JST for the details of regarding specifications.
3. Hole dimensions may differ according to the kind of PC board and piercing method.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIN-002T-1.0	AP-K2N	MKS-L	MK/SIN-002-10	APLMK SIN002-10
*MKS-SC		SC/SIN-002-10	APLSC SIN002-10	
MKS-L		MK/SIN-001-12	APLMK SIN001-12	
*MKS-SC		SC/SIN-001-12	APLSC SIN001-12	
MKS-L		MK/SIN-01-12	APLMK SIN01-12	
*MKS-SC		SC/SIN-01-12	APLSC SIN01-12	
MKS-L		MK/SIN-01-18	APLMK SIN01-18	
*MKS-SC		SC/SIN-01-18	APLSC SIN01-18	
MKS-L		MK/SIN-001-12B	APLMK SIN001-12B	
*MKS-SC		SC/SIN-001-12B	APLSC SIN001-12B	
MKS-L	AP-K2N	MK/SIN-002-12N	APLMK SIN002-12N	
*MKS-SC		SC/SIN-002-12N	APLSC SIN002-12N	

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIN-21T-1.8	AP-K2N	MKS-L	MK/SIN-21-18	APLMK SIN21-18
—		—	—	—
MKS-L-IN		MK/SIN-002-10S	APLMK SIN002-10S	
—		—	—	
MKS-L-SIN		MK/SIN-21-18S	APLMK SIN21-18S	
*MKS-SC		SC/SIN-21-18S	APLSC SIN21-18S	
MKS-L-SIN		MK/SIN-41-24S	APLMK SIN41-24S	
—		—	—	
MKS-L-SIN		MK/SIN-61-26S	APLMK SIN61-26S	
—		—	—	
MKS-L-SIN3		MK/SIN-81-36S	APLMK SIN81-36S	
—		—	—	



XSR CONNECTOR

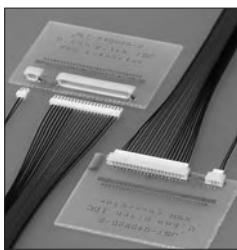
1-B

Wire to Board Insulation Displacement Connectors

TABLE OF CONTENTS

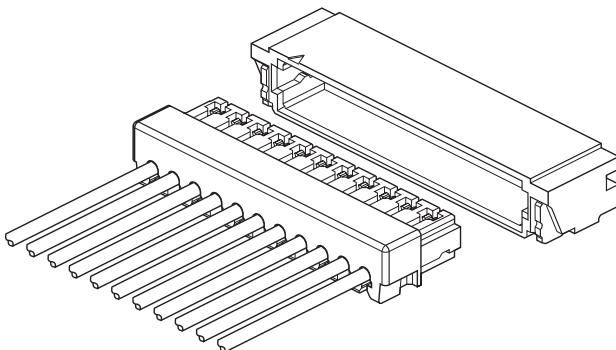
<Disconnectable>	DISCONNECTABLE CONNECTORS
• 0.6mm pitch	XSR CONNECTOR
• 0.8mm pitch	SUR CONNECTOR
• 1.0mm pitch	SR CONNECTOR
	SSR CONNECTOR
	ASR CONNECTOR
• 1.5mm pitch	ZR CONNECTOR
• 2.0mm pitch	KR CONNECTOR
	CK CONNECTOR
• 2.5mm pitch	KRD CONNECTOR
	HR CONNECTOR
<Board-in>	BOARD-IN CONNECTORS
• 1.5mm pitch	ZA CONNECTOR
• 2.0mm pitch	DA CONNECTOR
	DD/DS CONNECTOR

and/or the trademarks or service marks of their respective owners. The XSR CONNECTOR is a registered trademark of Amphenol Corporation.



XSR CONNECTOR

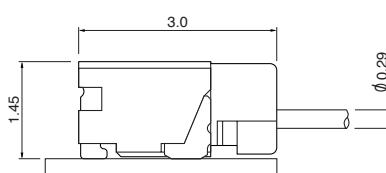
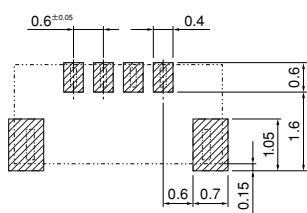
0.6mm pitch/Disconnectable Insulation displacement connectors



This is the world's smallest 0.6mm pitch ID connector for discrete wires.
This Wire to Board miniaturized connector has a mounting height of 1.45mm and depth of 3.0mm.

- Space saving
- Twin U-slot insulation displacement section
- New strain relief structure
- Suitable for fine wires
- Applicable to automatic ID machines

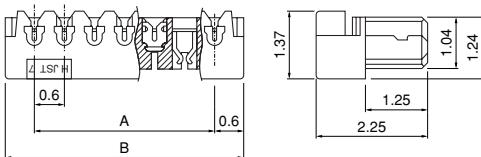
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

XSR CONNECTOR

Socket



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02XSR-36S	0.6	1.8	4,000
4	04XSR-36S	1.8	3.0	4,000
6	06XSR-36S	3.0	4.2	4,000
10	10XSR-36S	5.4	6.6	4,000
16	16XSR-36S	9.0	10.2	4,000
20	20XSR-36S	11.4	12.6	4,000
22	*22XSR-36S	12.6	13.8	4,000

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)

Housing: PA, UL94V-0, natural

RoHS compliance

Note: *Marked products are not UL/CSA approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

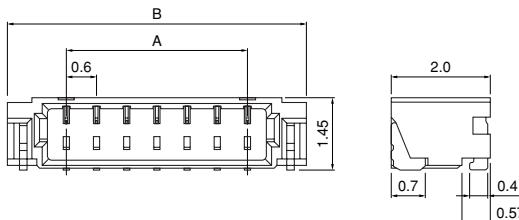
ex. **02XSR-36S**

S...natural (standard color)

LG...light green LP...light purple L...lemon yellow

PK...pink LE...light blue O...orange

Header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	SM02B-XSRS-ETB	0.6	3.0	3,500
4	SM04B-XSRS-ETB	1.8	4.2	3,500
6	SM06B-XSRS-ETB	3.0	5.4	3,500
10	SM10B-XSRS-ETB	5.4	7.8	3,500
16	SM16B-XSRS-ETB	9.0	11.4	3,500
20	SM20B-XSRS-ETB	11.4	13.8	3,500
22	*SM22B-XSRS-ETB	12.6	15.0	3,500

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA, UL94V-0, natural

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. This products listed above are supplied on embossed-tape.

2. *Marked products are not UL/CSA approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

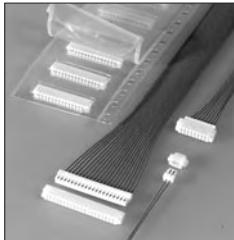
For availability, delivery and minimum order quantity, contact JST.

ex. **SM02B-XSRS-TB**

S...natural (standard color)

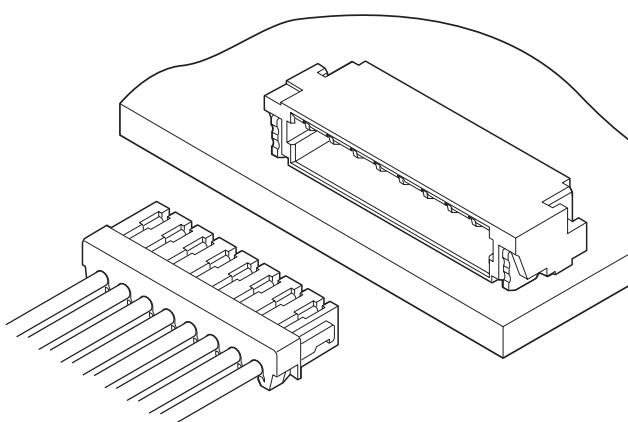
LG...light green LP...light purple L...lemon yellow

PK...pink LE...light blue O...orange



SUR CONNECTOR

0.8mm pitch/Disconnectable Insulation displacement connectors



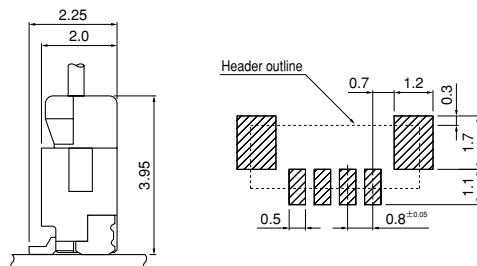
The world's first 0.8mm pitch wire-to-board insulation displacement connector. Side entry type is only 3.9mm depth and 1.75mm height after mounting on the PC board, and top entry type is only 2.2mm depth and 3.9mm height.

Compared to the conventional 1.0mm pitch SSR connector, occupation space on the board is reduced by 34% (side entry type).

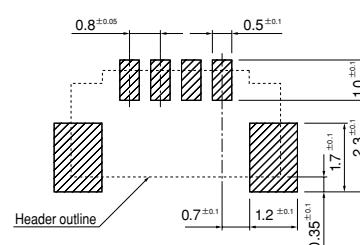
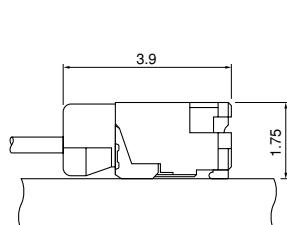
- 3-point grip construction
- Super fine wires are applicable
- Shrouded header
- Twin U-slot insulation displacement section

PC board layout (viewed from component side) and Assembly layout

Top entry type



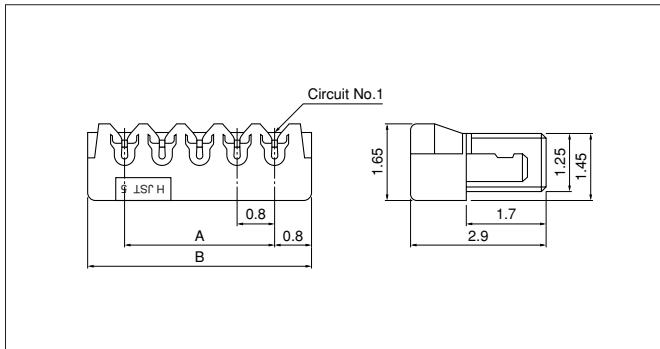
Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Dimensions above should serve as a guideline. Contact JST for details.

Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty/ box
	#32(Natural)	#36(Lemon yellow)	A	B	
2	02SUR-32S	02SUR-36L	0.8	2.4	2,000
3	03SUR-32S	03SUR-36L	1.6	3.2	2,000
4	04SUR-32S	04SUR-36L	2.4	4.0	2,000
5	05SUR-32S	05SUR-36L	3.2	4.8	2,000
6	06SUR-32S	06SUR-36L	4.0	5.6	2,000
8	08SUR-32S	08SUR-36L	5.6	7.2	2,000
10	10SUR-32S	10SUR-36L	7.2	8.8	2,000
12	12SUR-32S	12SUR-36L	8.8	10.4	2,000
14	14SUR-32S	14SUR-36L	10.4	12.0	2,000
15	15SUR-32S	15SUR-36L	11.2	12.8	2,000
16	16SUR-32S	16SUR-36L	12.0	13.6	2,000
17	17SUR-32S	17SUR-36L	12.8	14.4	2,000
20	20SUR-32S	20SUR-36L	15.2	16.8	2,000
22	22SUR-32S	22SUR-36L	16.8	18.4	2,000

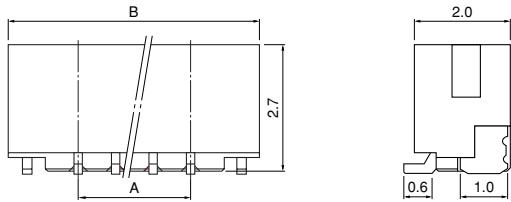
Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: PA, UL94V-0

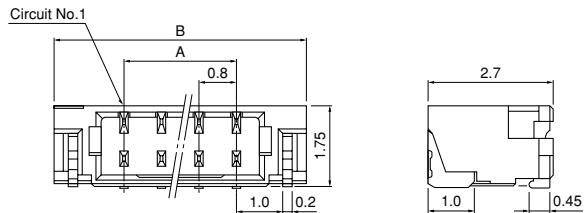
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty/ reel
	Top entry type	Side entry type	A	B	
2	BM02B-SURS-TF	SM02B-SURS-TF	0.8	3.8	2,500
3	BM03B-SURS-TF	SM03B-SURS-TF	1.6	4.6	2,500
4	BM04B-SURS-TF	SM04B-SURS-TF	2.4	5.4	2,500
5	—	SM05B-SURS-TF	3.2	6.2	—
6	—	SM06B-SURS-TF	4.0	7.0	—
8	BM08B-SURS-TF	SM08B-SURS-TF	5.6	8.6	2,500
10	BM10B-SURS-TF	SM10B-SURS-TF	7.2	10.2	2,500
12	BM12B-SURS-TF	SM12B-SURS-TF	8.8	11.8	2,500
14	—	SM14B-SURS-TF	10.4	13.4	—
15	BM15B-SURS-TF	SM15B-SURS-TF	11.2	14.2	2,500
16	—	SM16B-SURS-TF	12.0	15.0	—
17	—	SM17B-SURS-TF	12.8	15.8	—
20	BM20B-SURS-TF	SM20B-SURS-TF	15.2	18.2	2,500
22	—	SM22B-SURS-TF	16.8	19.8	—

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

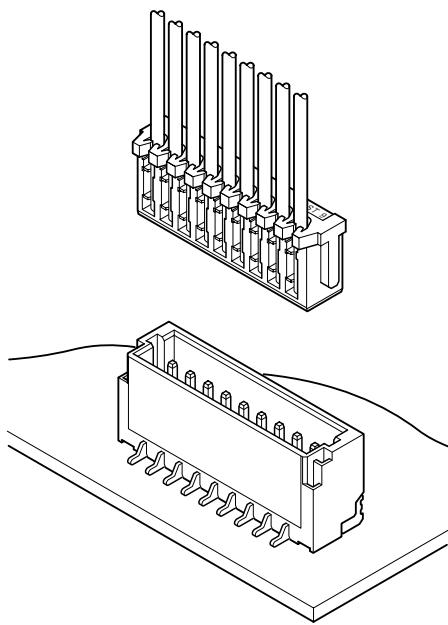
RoHS compliance

This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.



SR CONNECTOR

1.0mm pitch/Disconnectable Insulation displacement connectors



- Compact insulation displacement connector
- Header designed for vacuum pick and place robotics
- Twin U-slot insulation displacement section
- 3-point grip construction

Specifications

- Current rating: 0.7A DC
 - Voltage rating: 50V DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
 - Insulation resistance: 100M Ω min.
 - Withstanding voltage: 500V AC/minute
 - Applicable wire: Conductor size/AWG #30
Conductor/7 strands,
tin-coated annealed copper
Insulation O.D./0.54 to 0.58mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

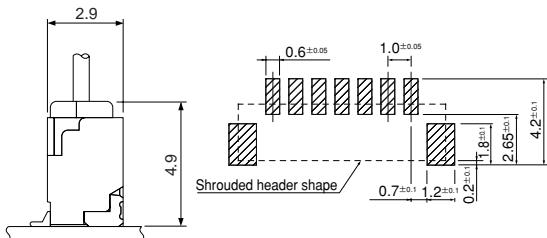
Standards

■ Recognized E60389

■ Certified LR20812

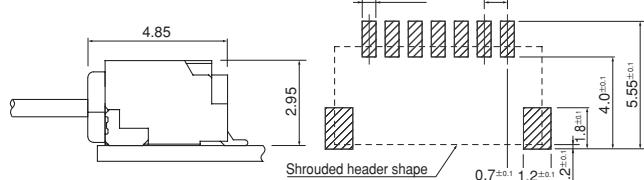
PC board layout (viewed from component side) and Assembly layout

Top entry type

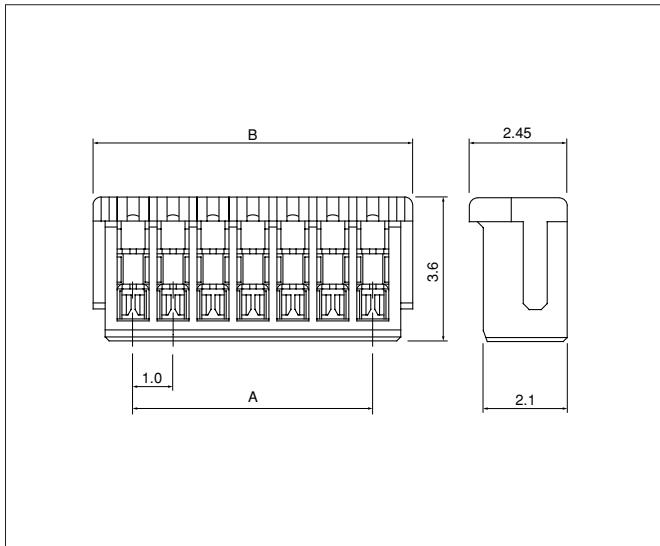


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Dimensions above should serve as a guideline. Contact JST for details.

Side entry type



Receptacle



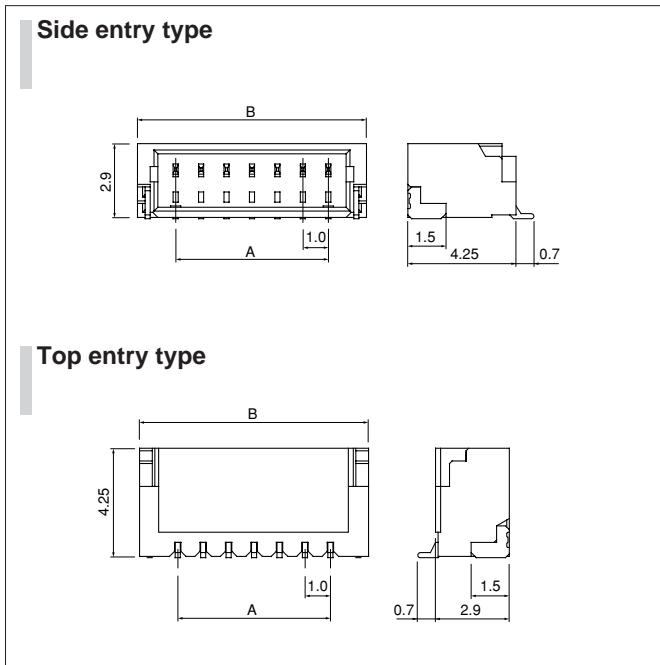
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02SR-3S	1.0	3.0	2,000
3	03SR-3S	2.0	4.0	2,000
4	04SR-3S	3.0	5.0	2,000
5	05SR-3S	4.0	6.0	2,000
6	06SR-3S	5.0	7.0	2,000
7	07SR-3S	6.0	8.0	2,000
8	08SR-3S	7.0	9.0	2,000
9	09SR-3S	8.0	10.0	2,000
10	10SR-3S	9.0	11.0	2,000
11	11SR-3S	10.0	12.0	2,000
12	12SR-3S	11.0	13.0	2,000
13	13SR-3S	12.0	14.0	2,000
14	14SR-3S	13.0	15.0	2,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural

RoHS compliance

Shrouded header



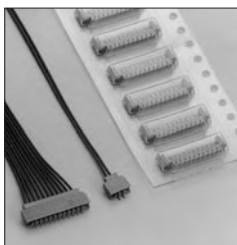
Circuits	Top entry type	Side entry type	Dimensions (mm)		Q'ty / reel	Top entry type	Side entry type
			A	B			
2	BM02B-SRSS-TB	SM02B-SRSS-TB	1.0	4.0	1,500	3,000	
3	BM03B-SRSS-TB	SM03B-SRSS-TB	2.0	5.0	1,500	3,000	
4	BM04B-SRSS-TB	SM04B-SRSS-TB	3.0	6.0	1,500	3,000	
5	BM05B-SRSS-TB	SM05B-SRSS-TB	4.0	7.0	1,500	3,000	
6	BM06B-SRSS-TB	SM06B-SRSS-TB	5.0	8.0	1,500	3,000	
7	BM07B-SRSS-TB	SM07B-SRSS-TB	6.0	9.0	1,500	3,000	
8	BM08B-SRSS-TB	SM08B-SRSS-TB	7.0	10.0	1,500	3,000	
9	BM09B-SRSS-TB	SM09B-SRSS-TB	8.0	11.0	1,500	3,000	
10	BM10B-SRSS-TB	SM10B-SRSS-TB	9.0	12.0	1,500	3,000	
11	BM11B-SRSS-TB	SM11B-SRSS-TB	10.0	13.0	1,500	3,000	
12	BM12B-SRSS-TB	SM12B-SRSS-TB	11.0	14.0	1,500	3,000	
13	BM13B-SRSS-TB	SM13B-SRSS-TB	12.0	15.0	1,500	3,000	
14	BM14B-SRSS-TB	SM14B-SRSS-TB	13.0	16.0	1,500	3,000	

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

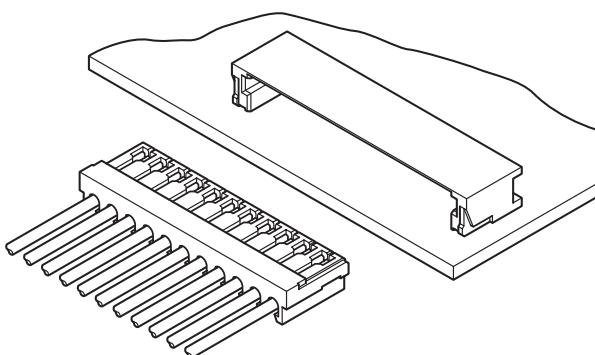
RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the top entry type headers with suction cap.



SSR CONNECTOR

1.0mm pitch/Disconnectable Insulation displacement connectors



- **Compact**
- **Twin U-slot insulation displacement section**
- **3-point grip construction**
- **Header designed for vacuum pick and place robotics**

Specifications

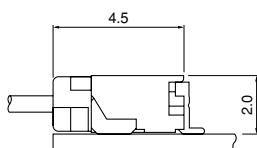
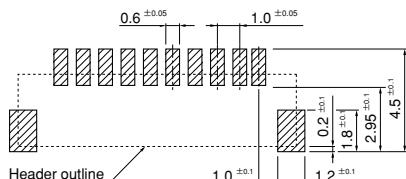
- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
 - Insulation resistance: 100M Ω min.
 - Withstanding voltage: 500V AC/minute
 - Applicable wire: Conductor size/AWG #32
Conductor/7 strands,
tin-coated annealed copper
Insulation O.D./0.52 to 0.56mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

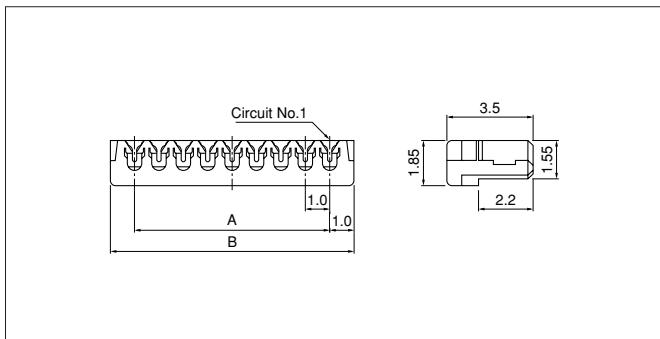
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

SSR CONNECTOR

Receptacle



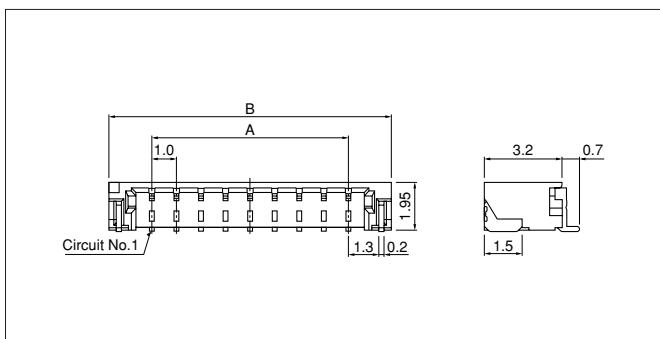
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02SSR-32H	1.0	3.0	2,000
3	03SSR-32H	2.0	4.0	2,000
4	04SSR-32H	3.0	5.0	2,000
5	05SSR-32H	4.0	6.0	2,000
6	06SSR-32H	5.0	7.0	2,000
8	08SSR-32H	7.0	9.0	2,000
9	09SSR-32H	8.0	10.0	2,000
10	10SSR-32H	9.0	11.0	2,000
11	11SSR-32H	10.0	12.0	2,000
12	12SSR-32H	11.0	13.0	2,000
13	13SSR-32H	12.0	14.0	2,000
14	14SSR-32H	13.0	15.0	2,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 46, UL94V-0, gray

RoHS compliance

Shrouded header

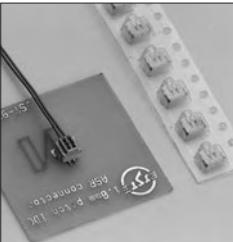


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	SM02B-SSR-H-TB	1.0	4.6	4,500
3	SM03B-SSR-H-TB	2.0	5.6	4,500
4	SM04B-SSR-H-TB	3.0	6.6	4,500
5	SM05B-SSR-H-TB	4.0	7.6	4,500
6	SM06B-SSR-H-TB	5.0	8.6	4,500
8	SM08B-SSR-H-TB	7.0	10.6	4,500
9	SM09B-SSR-H-TB	8.0	11.6	4,500
10	SM10B-SSR-H-TB	9.0	12.6	4,500
11	SM11B-SSR-H-TB	10.0	13.6	4,500
12	SM12B-SSR-H-TB	11.0	14.6	4,500
13	SM13B-SSR-H-TB	12.0	15.6	4,500
14	SM14B-SSR-H-TB	13.0	16.6	4,500

Material and Finish

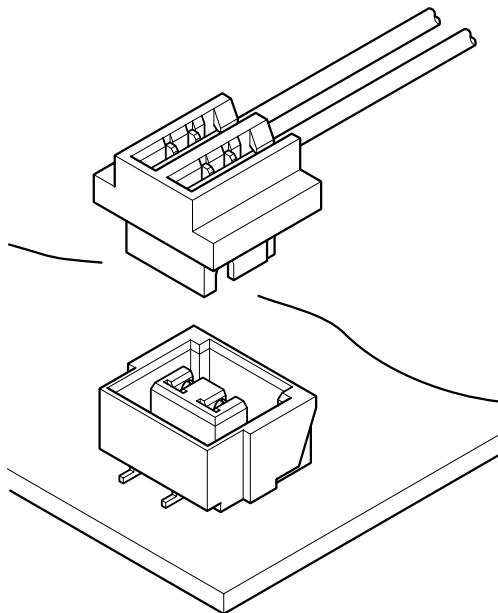
Contact: Copper-alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, gray
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.



ASR CONNECTOR

1.0mm pitch/Disconnectable Insulation displacement connectors



- **Compact**
- **Twin U-slot insulation displacement section**
- **3-point grip construction**
- **Header designed for vacuum pick and place robotics**

Specifications

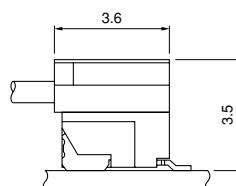
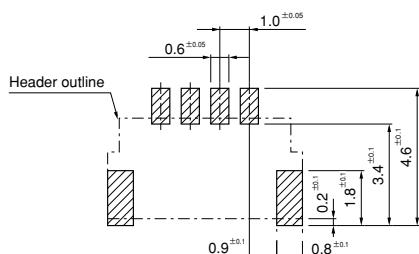
- Current rating: 0.7A DC
 - Voltage rating: 50V DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/30m Ω max.
After environmental testing/40m Ω max.
 - Insulation resistance: 100M Ω min.
 - Withstanding voltage: 500V AC/minute
 - Applicable wire: Conductor size/AWG #30
Conductor/7 strands,
tin-coated annealed copper
Insulation O.D./0.54 to 0.58mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

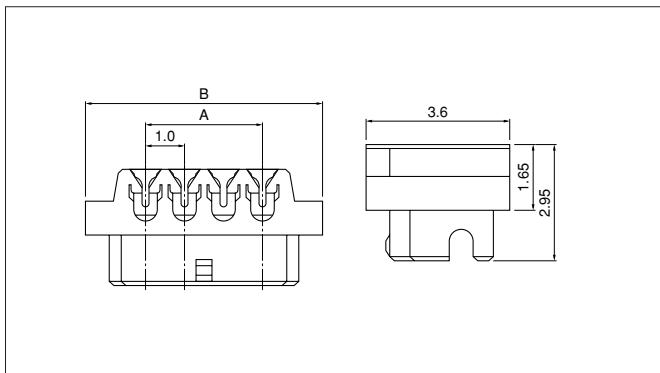
Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



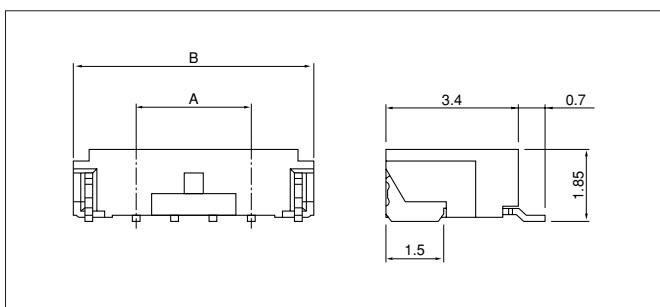
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02ASR-30S	1.0	4.0	3,000
3	03ASR-30S	2.0	5.0	3,000
4	04ASR-30S	3.0	6.0	3,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0, natural

RoHS compliance

Shrouded header

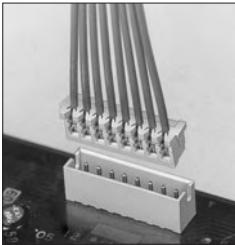


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	BM02B-ASRS-TF	1.0	4.4	3,500
3	BM03B-ASRS-TF	2.0	5.4	3,500
4	BM04B-ASRS-TF	3.0	6.4	3,500

Material and Finish

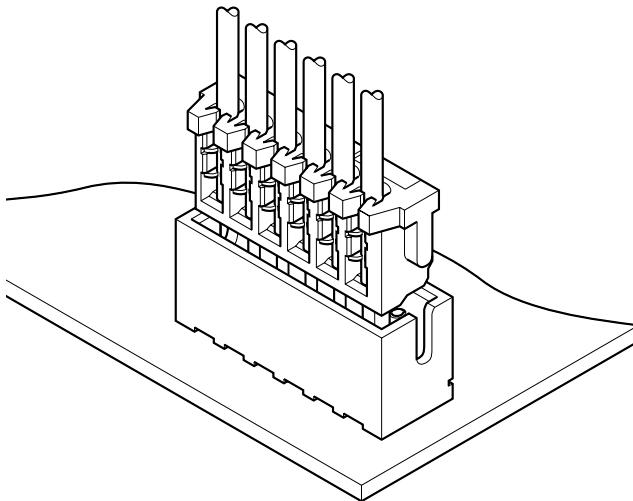
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.



ZR CONNECTOR

1.5mm pitch/Disconnectable Insulation displacement connectors



The twin U-slots (IDC slots), the 3-point insulation grip, and the distortion resistant disconnectable construction ensure a reliable connection even during severe environmental conditions.

- **Compact**
- **Twin U-slot insulation displacement section**
- **3-point grip construction**
- **Distortion resistant construction**
- **Compatible with the ZH crimp style connector**

Specifications

- Current rating: 0.7A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: UL1571(Contact JST for details regarding other UL styles.)
AWG #30, #28
Conductor/7 strands, tin-coated
Insulation O.D./0.7 to 0.8mm
(Contact JST for diameters greater than 0.8mm.)
- Applicable PC board thickness: 0.6 to 1.2mm, 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

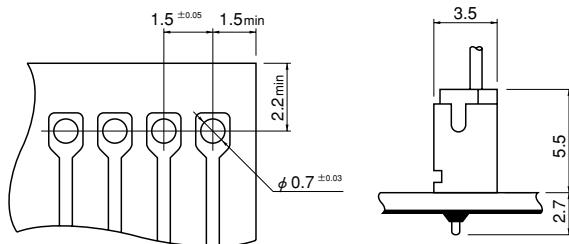
■ Recognized E60389

■ Certified LR20812

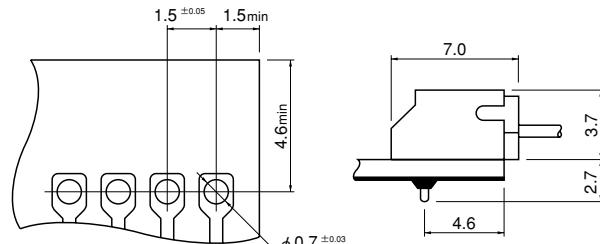
△ R9351092

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type

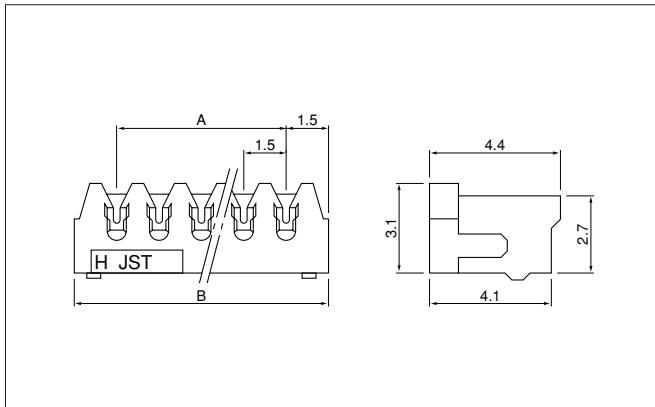


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

3. As for the PC board layout for the SMT type shrouded headers, refer to that of the ZH connector.

Receptacle



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #30(natural/gray)	AWG #28(green)	A	B	
2	02ZR-3H-P	02ZR-8M-P	1.5	4.5	2,000
3	03ZR-3H-P	03ZR-8M-P	3.0	6.0	2,000
4	04ZR-3H-P	04ZR-8M-P	4.5	7.5	2,000
5	05ZR-3H-P	05ZR-8M-P	6.0	9.0	2,000
6	06ZR-3H-P	06ZR-8M-P	7.5	10.5	2,000
7	07ZR-3H-P	07ZR-8M-P	9.0	12.0	2,000
8	08ZR-3H-P	08ZR-8M-P	10.5	13.5	2,000
9	09ZR-3H-P	09ZR-8M-P	12.0	15.0	2,000
10	10ZR-3H-P	10ZR-8M-P	13.5	16.5	2,000
11	11ZR-3H-P	11ZR-8M-P	15.0	18.0	2,000
12	12ZR-3H-P	12ZR-8M-P	16.5	19.5	2,000
13	13ZR-3H-P	13ZR-8M-P	18.0	21.0	2,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

Note: Not TÜV approved.

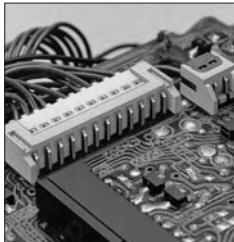
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02ZR-3H-P**

standard color AWG#30: H...gray
AWG#28: M...green
K...black R...red E...blue

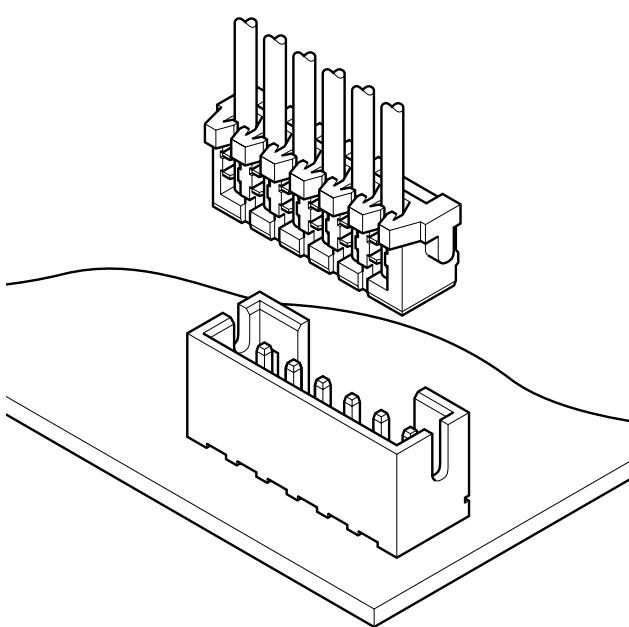
Shrouded header

The shrouded headers are interchangeable with those of the ZH crimp style connectors.



KR CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement connectors



The KR connector features a mounting height as low as 6.9mm and a thickness as thin as 4.8mm (for top entry type). It is suitable for interconnection of a wide range of electronic equipment such as VCRs, video cameras, car stereo systems and communication equipment.

- **Folded beam double-leaf contact construction**
- **Twin U-slot insulation displacement section**
- **Strain relief**
- **Compatible with the PH crimp style connector**
- **Surface mount model (SMT)**

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
 - Voltage rating: 100V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 800V AC/minute
 - Applicable wire: UL1571, 1061 (Contact JST for details regarding other UL styles.)
AWG #28 to #26
Conductor/7 strands, tin-coated
Insulation O.D./0.9 to 1.0mm
(The standard applicable wire for connectors having 13 circuits or more is UL 1061.)
 - Applicable panel thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

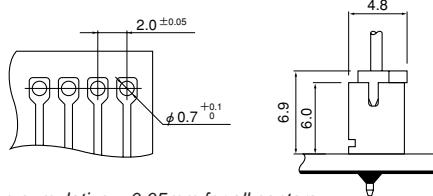
Recognized E60389

Certified LR20812

R75088

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

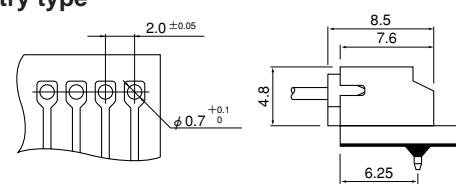
Top entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC board made of hard material are used, the hole dimensions should be larger. The hole dimensions above should serve as a guideline. Contact JST for details.

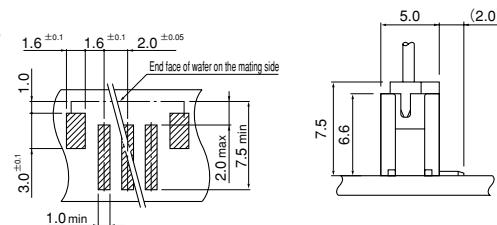
Side entry type



SMT type PC board layout (viewed from component side) and Assembly layout

<SM4 type>

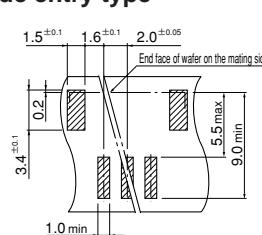
Top entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

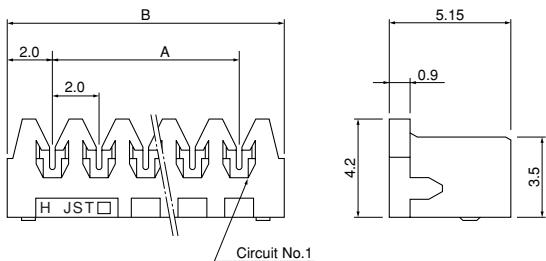
2. The dimensions above should serve as a guideline. Contact JST for details.

Side entry type

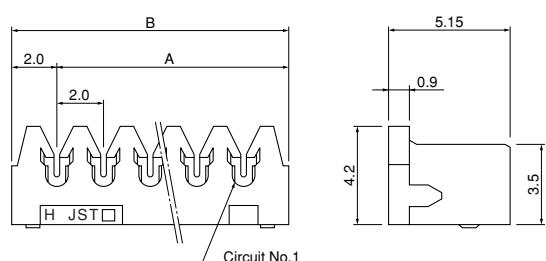


Receptacle

(2 to 12 circuits)



(13 to 16 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02KR-6H-P	2.0	6.0	2,000
3	03KR-6H-P	4.0	8.0	2,000
4	04KR-6H-P	6.0	10.0	2,000
5	05KR-6H-P	8.0	12.0	2,000
6	06KR-6H-P	10.0	14.0	2,000
7	07KR-6H-P	12.0	16.0	1,000
8	08KR-6H-P	14.0	18.0	1,000
9	09KR-6H-P	16.0	20.0	1,000
10	10KR-6H-P	18.0	22.0	1,000
11	11KR-6H-P	20.0	24.0	1,000
12	12KR-6H-P	22.0	26.0	1,000
13	13KR-6H-P	24.0	28.0	500
14	14KR-6H-P	26.0	30.0	500
15	15KR-6H-P	28.0	32.0	500
16	16KR-6H-P	30.0	34.0	500

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
 Housing: 2 to 12 circuits/PA 66, UL94V-0,gray
 13 to 16 circuits/Glass-filled PA 66, UL94V-0, gray

RoHS compliance

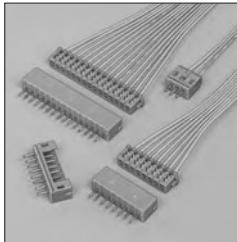
<For reference> As the color identification,
 the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

ex. **02KR-6H-P**

H...gray K...black E...blue R...red

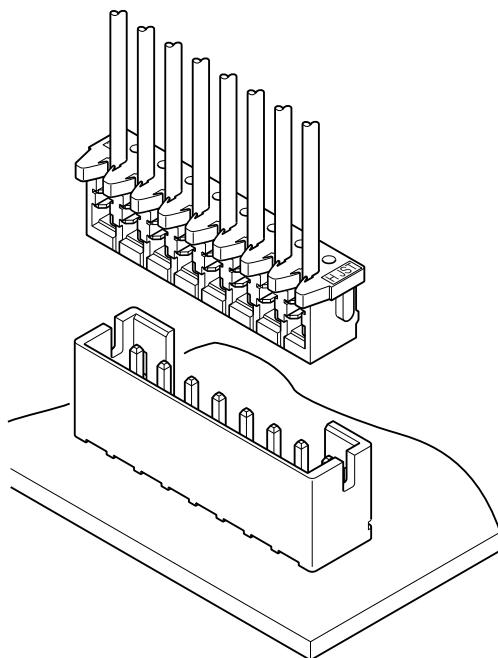
Shrouded header

The shrouded headers are interchangeable with those of the PH crimp style connectors and CR and KRD insulation displacement connectors.



CK CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement connectors

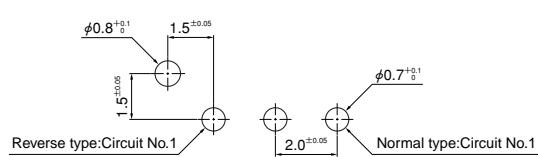


Multi-harness of CK connector (2.0mm) and CZ connector (1.5mm) combination has been realized. The in-line type IDC features low profile design with 6.9mm mounting height and 4.8mm thickness (top entry type).

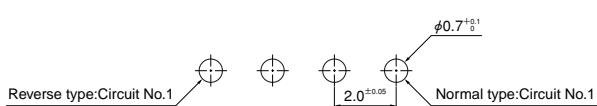
- UL10272 wire is applicable
- Folded beam double-leaf contact construction
- Twin U-slot insulation displacement section
- Strain relief

PC board layout (viewed from component side) and Assembly layout

Top entry type



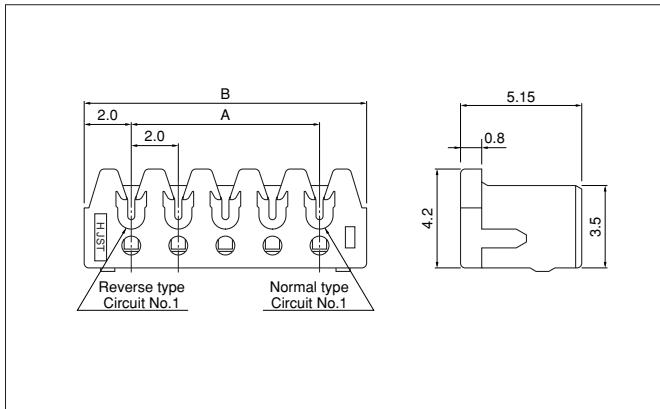
Side entry type



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Normal type	Reverse type	A	B	
2	02CK-6H-P	02CK-6H-PC	2.0	6.0	2,000
3	03CK-6H-P	03CK-6H-PC	4.0	8.0	2,000
4	04CK-6H-P	04CK-6H-PC	6.0	10.0	2,000
5	05CK-6H-P	05CK-6H-PC	8.0	12.0	2,000
6	06CK-6H-P	06CK-6H-PC	10.0	14.0	2,000
7	07CK-6H-P	07CK-6H-PC	12.0	16.0	1,000
8	08CK-6H-P	08CK-6H-PC	14.0	18.0	1,000
9	09CK-6H-P	09CK-6H-PC	16.0	20.0	1,000
10	10CK-6H-P	10CK-6H-PC	18.0	22.0	1,000
11	11CK-6H-P	11CK-6H-PC	20.0	24.0	1,000
12	12CK-6H-P	12CK-6H-PC	22.0	26.0	1,000
13	13CK-6H-P	13CK-6H-PC	24.0	28.0	500
14	14CK-6H-P	14CK-6H-PC	26.0	30.0	500
15	15CK-6H-P	15CK-6H-PC	28.0	32.0	500

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)

Housing: Glass-filled PA 66

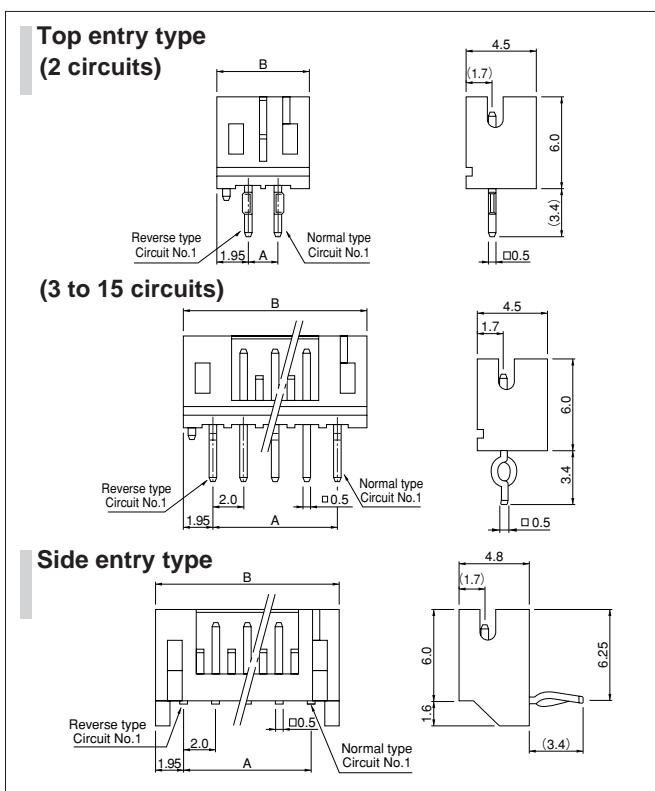
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CK-6H-P**

H...gray Y...yellow R...red N...brown

Single-row shrouded header (Through-hole type)



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Normal type	Reverse type	A	B	
2	B2B-PH-KBL-H	S2B-PH-KL	B2B-PH-KBLC-H	S2B-PH-KLC-H	2.0 5.9 1,000 1,000
3	B3B-PH-KBL-H	S3B-PH-KL	B3B-PH-KBLC-H	S3B-PH-KLC-H	4.0 7.9 1,000 1,000
4	B4B-PH-KBL-H	S4B-PH-KL	B4B-PH-KBLC-H	S4B-PH-KLC-H	6.0 9.9 1,000 500
5	B5B-PH-KBL-H	S5B-PH-KL	B5B-PH-KBLC-H	S5B-PH-KLC-H	8.0 11.9 1,000 500
6	B6B-PH-KBL-H	S6B-PH-KL	B6B-PH-KBLC-H	S6B-PH-KLC-H	10.0 13.9 1,000 500
7	B7B-PH-KBL-H	S7B-PH-KL	B7B-PH-KBLC-H	S7B-PH-KLC-H	12.0 15.9 500 500
8	B8B-PH-KBL-H	S8B-PH-KL	B8B-PH-KBLC-H	S8B-PH-KLC-H	14.0 17.9 500 250
9	B9B-PH-KBL-H	S9B-PH-KL	B9B-PH-KBLC-H	S9B-PH-KLC-H	16.0 19.9 500 250
10	B10B-PH-KBL-H	S10B-PH-KL	B10B-PH-KBLC-H	S10B-PH-KLC-H	18.0 21.9 500 250
11	B11B-PH-KBL-H	S11B-PH-KL	B11B-PH-KBLC-H	S11B-PH-KLC-H	20.0 23.9 500 250
12	B12B-PH-KBL-H	S12B-PH-KL	B12B-PH-KBLC-H	S12B-PH-KLC-H	22.0 25.9 500 250
13	B13B-PH-KBL-H	S13B-PH-KL	B13B-PH-KBLC-H	S13B-PH-KLC-H	24.0 27.9 250 250
14	B14B-PH-KBL-H	S14B-PH-KL	B14B-PH-KBLC-H	S14B-PH-KLC-H	26.0 29.9 250 200
15	B15B-PH-KBL-H	S15B-PH-KL	B15B-PH-KBLC-H	S15B-PH-KLC-H	28.0 31.9 250 200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, gray

RoHS compliance

This product displays (LF)(SN) on a label.

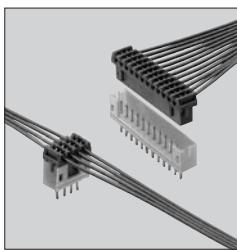
Note: Top entry type headers without bosses are also available.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

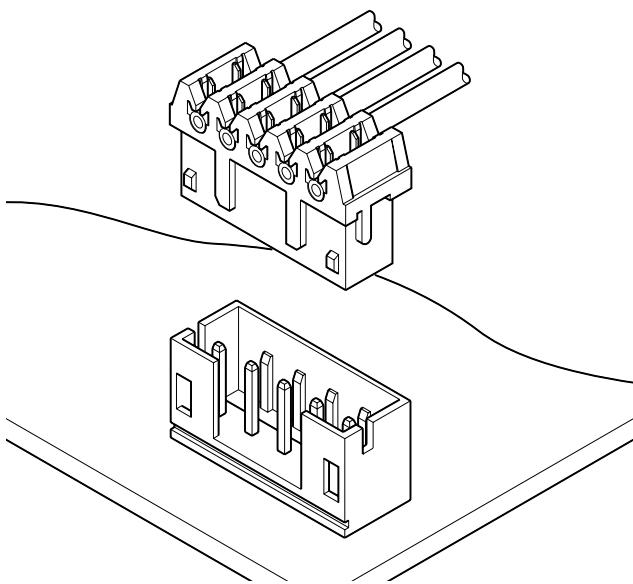
ex. **B2B-PH-KBL-H**

H...gray Y...yellow R...red N...brown
(blank)...gray (normal side entry type only)



KRD CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement connectors



This 2.0mm pitch insulation displacement connector is another version of the NRD connector for printed circuit boards. The KRD connector allows daisy chaining and is very useful in simplifying connection systems in electronic equipment.

- **Daisy chain connection**
- **Twin slot insulation displacement section**
- **Distortion resistant construction**
- **Interchangeability**
- **Low profile design - a mere 9.0mm high from the PC board surface**

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, UL1061 (Contact JST for details regarding other UL styles.)
AWG #28, #26
Conductor/7 strands, tin-coated
Insulation O.D./0.9 to 1.0mm
- Applicable PC board thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

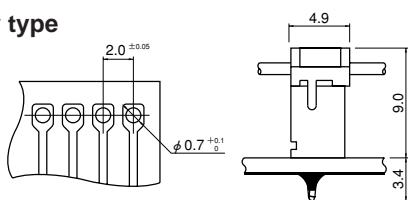
Standards

■ Recognized E60389

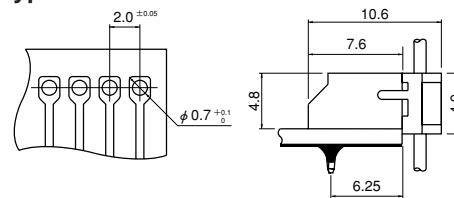
■ Certified LR20812

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



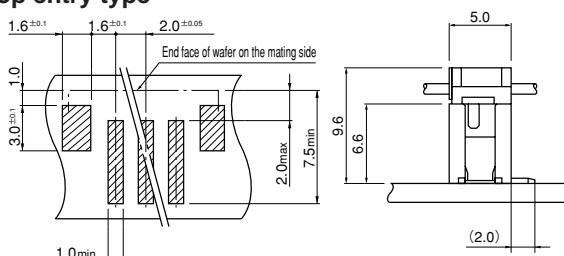
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC boards and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

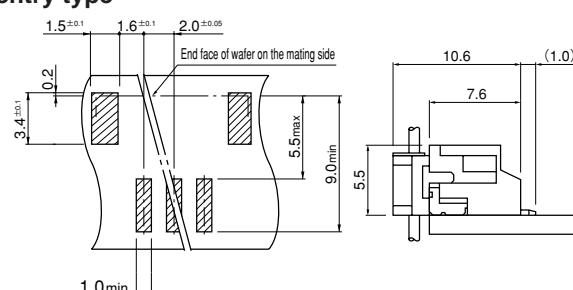
SMT type PC board layout (viewed from component side) and Assembly layout

<SM4 type>

Top entry type



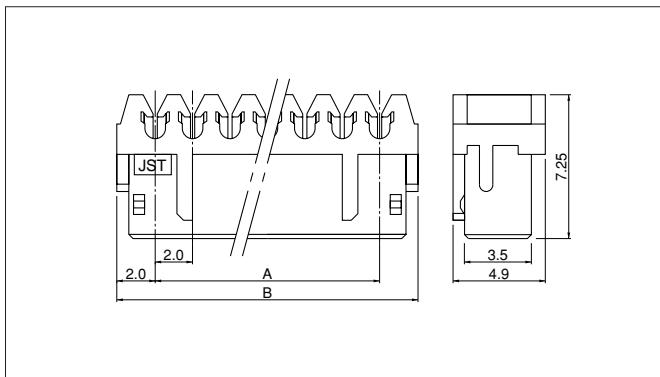
Side entry type



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #28(green)	AWG #26(natural/white)	A	B	
2	02KR-D8M-P	02KR-D6S-P	2.0	6.0	2,000
3	03KR-D8M-P	03KR-D6S-P	4.0	8.0	2,000
4	04KR-D8M-P	04KR-D6S-P	6.0	10.0	2,000
5	05KR-D8M-P	05KR-D6S-P	8.0	12.0	1,000
6	06KR-D8M-P	06KR-D6S-P	10.0	14.0	1,000
7	07KR-D8M-P	07KR-D6S-P	12.0	16.0	1,000
8	08KR-D8M-P	08KR-D6S-P	14.0	18.0	1,000
9	09KR-D8M-P	09KR-D6S-P	16.0	20.0	500
10	10KR-D8M-P	10KR-D6S-P	18.0	22.0	500
11	11KR-D8M-P	11KR-D6S-P	20.0	24.0	500
12	12KR-D8M-P	12KR-D6S-P	22.0	26.0	500
13	13KR-D8M-P	13KR-D6S-P	24.0	28.0	500
14	14KR-D8M-P	14KR-D6S-P	26.0	30.0	500
15	15KR-D8M-P	15KR-D6S-P	28.0	32.0	500
16	16KR-D8M-P	16KR-D6S-P	30.0	34.0	500

Material and Finish

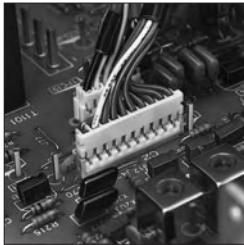
Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **02KR-D6S-P**
S...natural (white) [standard color for AWG#26]
M...green [standard color for AWG#28]

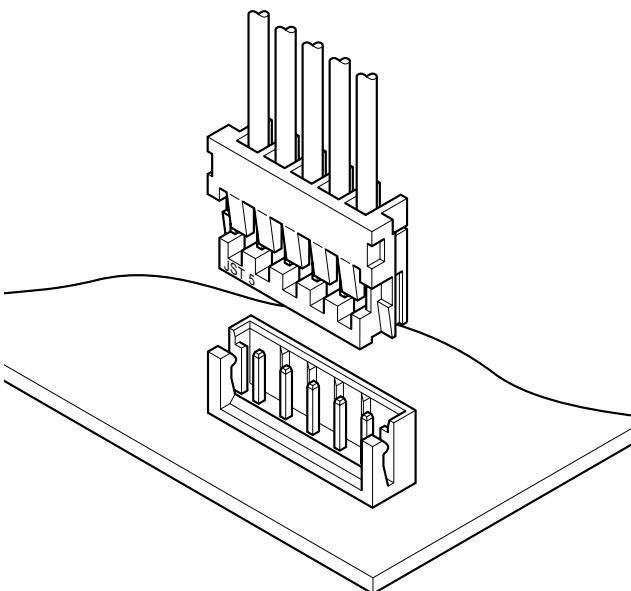
Shrouded header

The shrouded headers are interchangeable with the PH crimp style connectors and with CR and KR insulation displacement connectors.



HR CONNECTOR

2.5mm pitch/Disconnectable Insulation displacement connectors

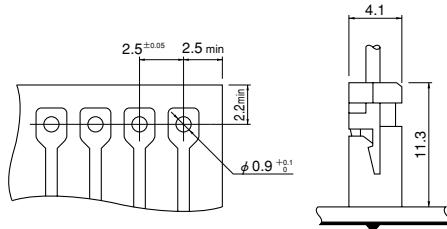


This 2.5mm pitch connector for printed circuit boards has a thin construction. The in-line method provides high-density capability to the end user.

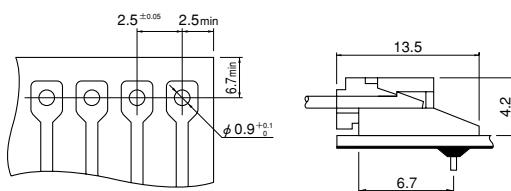
- Twin U-slot insulation displacement section
- Thin design
- High reliability
- Strain relief
- Interchangeability

PC board layout (viewed from soldering side) and Assembly layout

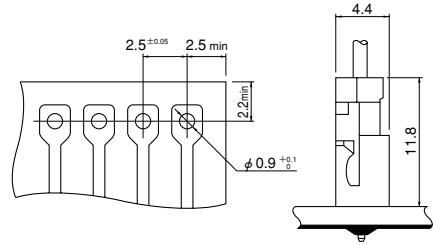
Top entry type



Side entry type



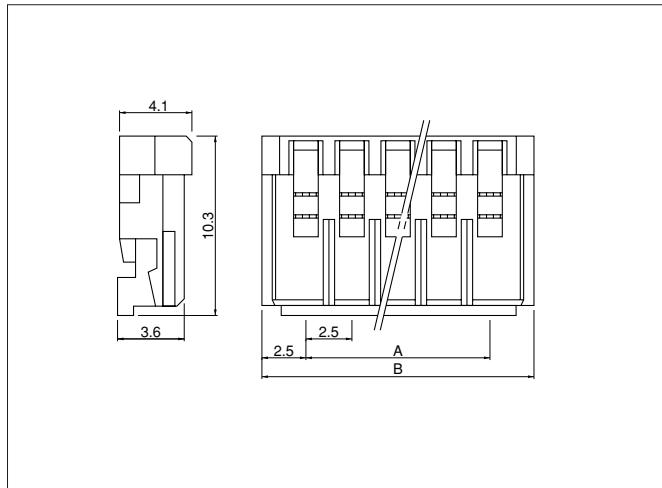
Top entry type on radial-tape



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



Cir-cuits	Model No.			Dimensions (mm)		Q'ty / box
	AWG #28 (green)	AWG #26 (natural/white)	AWG #24 (black)	A	B	
2	02HR-8M-P-N	02HR-6S-P-N	02HR-4K-P-N	2.5	7.5	1,000
3	03HR-8M-P-N	03HR-6S-P-N	03HR-4K-P-N	5.0	10.0	1,000
4	04HR-8M-P-N	04HR-6S-P-N	04HR-4K-P-N	7.5	12.5	1,000
5	05HR-8M-P-N	05HR-6S-P-N	05HR-4K-P-N	10.0	15.0	1,000
6	06HR-8M-P-N	06HR-6S-P-N	06HR-4K-P-N	12.5	17.5	1,000
7	07HR-8M-P-N	07HR-6S-P-N	07HR-4K-P-N	15.0	20.0	500
8	08HR-8M-P-N	08HR-6S-P-N	08HR-4K-P-N	17.5	22.5	500
9	09HR-8M-P-N	09HR-6S-P-N	09HR-4K-P-N	20.0	25.0	500
10	10HR-8M-P-N	10HR-6S-P-N	10HR-4K-P-N	22.5	27.5	500
11	11HR-8M-P-N	11HR-6S-P-N	11HR-4K-P-N	25.0	30.0	500
12	12HR-8M-P-N	12HR-6S-P-N	12HR-4K-P-N	27.5	32.5	500
13	13HR-8M-P-N	13HR-6S-P-N	13HR-4K-P-N	30.0	35.0	250
15	—	15HR-6S-P-N	15HR-4K-P-N	35.0	40.0	250

Material and Finish

Contact: coppa alloy, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0

Note: 1. Not TÜV approved.

2. 15HR-6S-P-N and 15HR-4K-P-N are not also UL/CSA approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02HR-4K-P-N**

standard color AWG#28: M...green, AWG#26: S...natural (white)

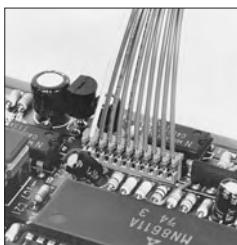
AWG#24: K...black

R...red TR...tomato red Y...yellow L...lemon yellow

N...brown E...blue O...orange

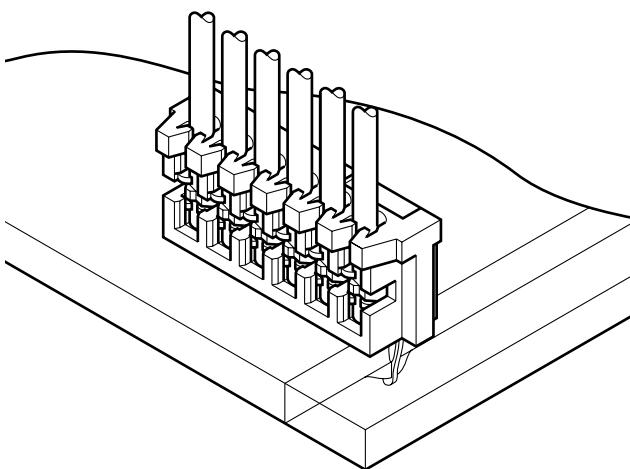
Shrouded header

The shrouded headers are interchangeable with those of the EH and HR crimp style connectors.



ZA CONNECTOR

1.5mm pitch/Board-in Insulation displacement connectors



This newly designed insulation displacement board-in connector features twin slots provided at the insulation displacement section. This is the most important section of the insulation displacement connector contact, and has an insulation barrel located between the twin slots. The insulation barrel firmly grips and secures the wire during insulation displacement connection to protect the insulation displacement section from possible damage. Due to significant increases in connection reliability, insulation displacement connection has become possible with this 1.5mm pitch board-in connector.

- Compact, direct mounting 1.5mm pitch insulation displacement board-in connector
- Twin-slot insulation displacement section
- Insulation barrel construction
- 3-point grip construction

Specifications

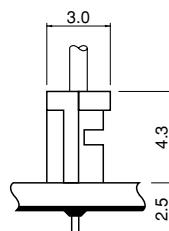
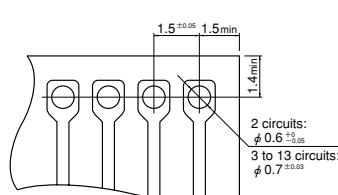
- Current rating: 0.7A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: UL1571(Contact JST for details regarding other UL styles.)
AWG #30, #28
(Contact JST if AWG #30 wire is to be used.)
Conductor/7 strands, tin-coated
Insulation O.D./0.7 to 0.8mm
(Contact JST for diameters greater than 0.8mm)
- Applicable PC board thickness: 0.6 to 1.2mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

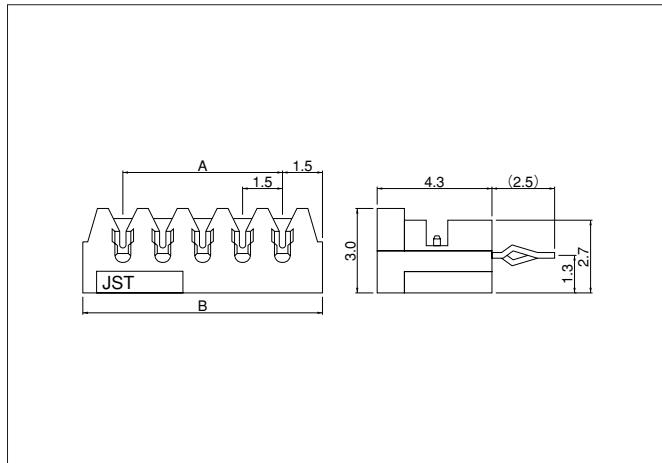
PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse connectors that were previously soldered and then removed from a PC board.

Connector



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #30(natural/gray)	AWG #28(green)	A	B	
2	02ZA-3H	02ZA-8M	1.5	4.5	2,000
3	03ZA-3H	03ZA-8M	3.0	6.0	2,000
4	04ZA-3H	04ZA-8M	4.5	7.5	2,000
5	05ZA-3H	05ZA-8M	6.0	9.0	2,000
6	06ZA-3H	06ZA-8M	7.5	10.5	2,000
7	07ZA-3H	07ZA-8M	9.0	12.0	1,000
8	08ZA-3H	08ZA-8M	10.5	13.5	1,000
9	09ZA-3H	09ZA-8M	12.0	15.0	1,000
10	10ZA-3H	10ZA-8M	13.5	16.5	1,000
11	11ZA-3H	11ZA-8M	15.0	18.0	1,000
12	12ZA-3H	12ZA-8M	16.5	19.5	1,000
13	13ZA-3H	13ZA-8M	18.0	21.0	500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

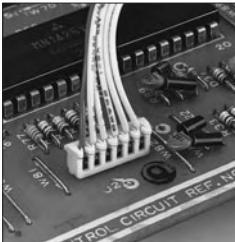
Note: Contact JST if AWG #30 wire is to be used.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02ZA-3H**

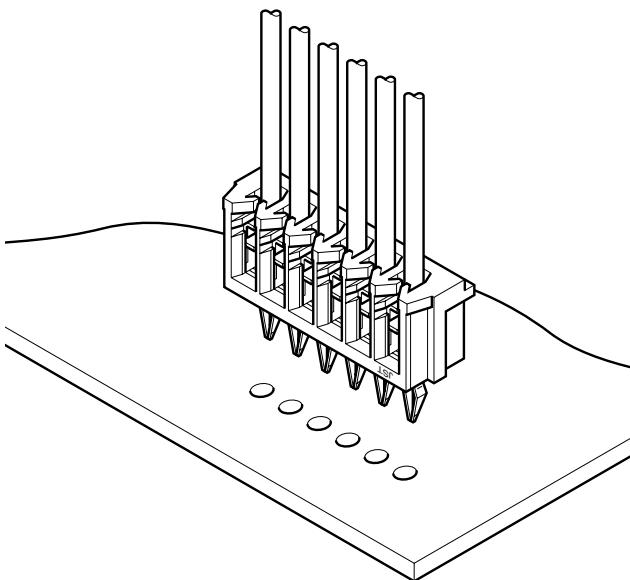
H...gray [standard color for AWG#30]

M...green [standard color for AWG#28]



DA CONNECTOR

2.0mm pitch/Board-in Insulation displacement connectors



Measuring 2.0mm in pitch, 5.0mm in mounting height, and 4.0mm in thickness, this board-in connector is useful in miniaturizing the connections of small electronic products, such as VCRs, cameras, stereo systems, and car radios. This connector can be used by itself or in combination with the DR connector.

- **Compact and low profile**
- **Twin U-slot insulation displacement section**
- **Easy mounting onto printed circuit boards**
- **Strain relief**
- **Interchangeability**

Specifications

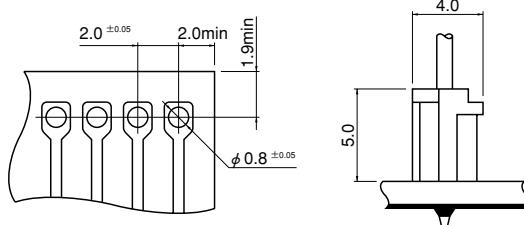
- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061(Contact JST for details regarding other UL styles.)
AWG #28, #26
Conductor/7 strands, tin-coated
Insulation O.D. / 0.9 to 1.0mm
- Applicable PC board thickness: 1.2, 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

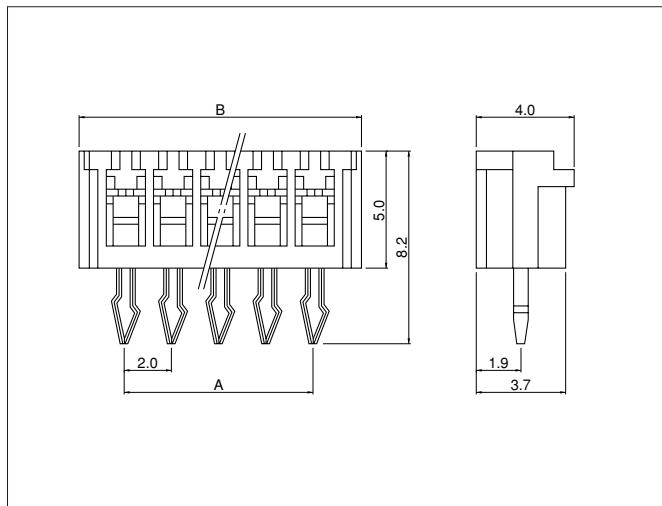
PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse any connectors that were previously soldered and then removed from a PC board.

Connector



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #28(green)	AWG #26(natural/white)	A	B	
2	02DA-8M	02DA-6S	2.0	5.9	2,000
3	03DA-8M	03DA-6S	4.0	7.9	2,000
4	04DA-8M	04DA-6S	6.0	9.9	1,000
5	05DA-8M	05DA-6S	8.0	11.9	1,000
6	06DA-8M	06DA-6S	10.0	13.9	1,000
7	07DA-8M	07DA-6S	12.0	15.9	1,000
8	08DA-8M	08DA-6S	14.0	17.9	1,000
9	09DA-8M	09DA-6S	16.0	19.9	500
10	10DA-8M	10DA-6S	18.0	21.9	500
11	11DA-8M	11DA-6S	20.0	23.9	500
12	12DA-8M	12DA-6S	22.0	25.9	500
13	13DA-8M	13DA-6S	24.0	27.9	500
14	14DA-8M	14DA-6S	26.0	29.9	500
15	15DA-8M	15DA-6S	28.0	31.9	250

Material and Finish

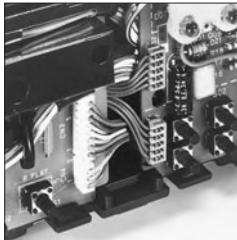
Contact: Phosphor bronze, nickel-undercoated, tin-plated
Housing: PA 66, UL94V-0

RoHS compliance This product displays (LF) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

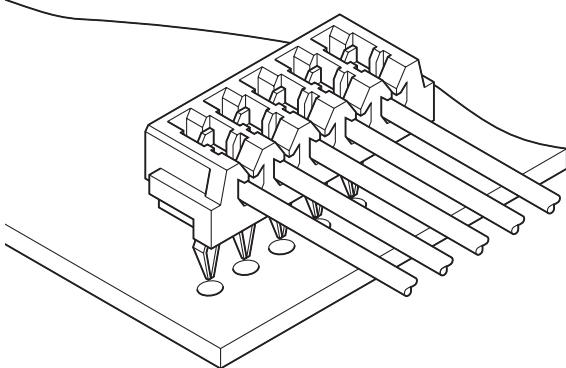
ex. **02DA-8M**

S...natural (white) [standard color for AWG#26]
M...green [standard color for AWG#28]



DD/DS CONNECTOR

2.0mm pitch/Board-in Insulation displacement connectors

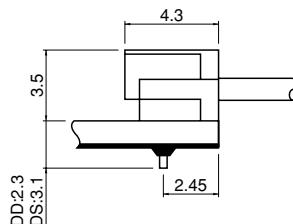
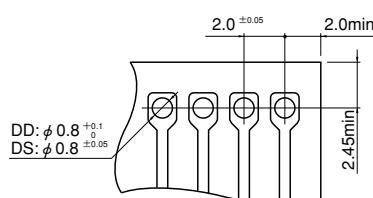


The DD and DS right angle board-in insulation displacement connectors measure just 3.5mm in mounting height and 4.3mm in width.

Since these right angle connectors are connected to wires running parallel to the printed circuit board, electronic equipment can have a lower profile. These connectors are suited for the high density wiring of electronic products.

- **Compact and low profile**
- **Twin U-slot insulation displacement section**
- **Compliant locking solder tails**
- **Strain relief**

PC board layout (viewed from soldering side) and Assembly layout

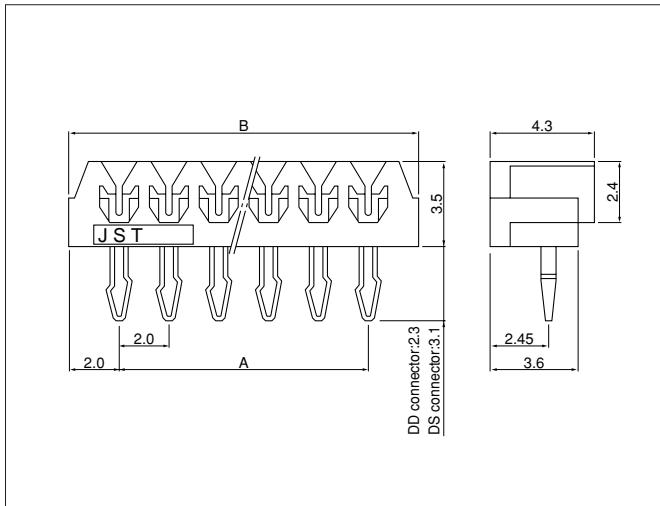


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse any connectors that were previously soldered to and then removed from a PC board.

DD/DS CONNECTOR

Connector



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / box	
	DD connector AWG #28(green)	DS connector AWG #28(blue)	A	B		
	02DD-8M	02DS-8E				
2	02DD-8M	02DS-8E	2.0	6.0	2,000	
3	03DD-8M	03DS-8E	4.0	8.0	2,000	
4	04DD-8M	04DS-8E	6.0	10.0	1,000	
5	05DD-8M	05DS-8E	8.0	12.0	1,000	
6	06DD-8M	06DS-8E	10.0	14.0	1,000	
7	07DD-8M	07DS-8E	12.0	16.0	1,000	
8	08DD-8M	08DS-8E	14.0	18.0	500	
9	09DD-8M	09DS-8E	16.0	20.0	500	
10	10DD-8M	10DS-8E	18.0	22.0	500	
11	11DD-8M	11DS-8E	20.0	24.0	500	
12	12DD-8M	12DS-8E	22.0	26.0	500	
13	13DD-8M	13DS-8E	24.0	28.0	500	
14	14DD-8M	14DS-8E	26.0	30.0	500	
15	15DD-8M	15DS-8E	28.0	32.0	500	

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: 2 to 11 circuits/PA 66, UL94V-0
12 to 15 circuits/Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02DD-8M**

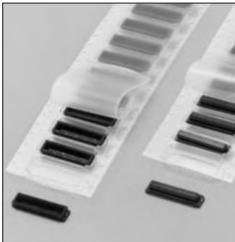
M...(DD connector) green
E...(DS connector) blue

1 - C

Board to Board Connectors

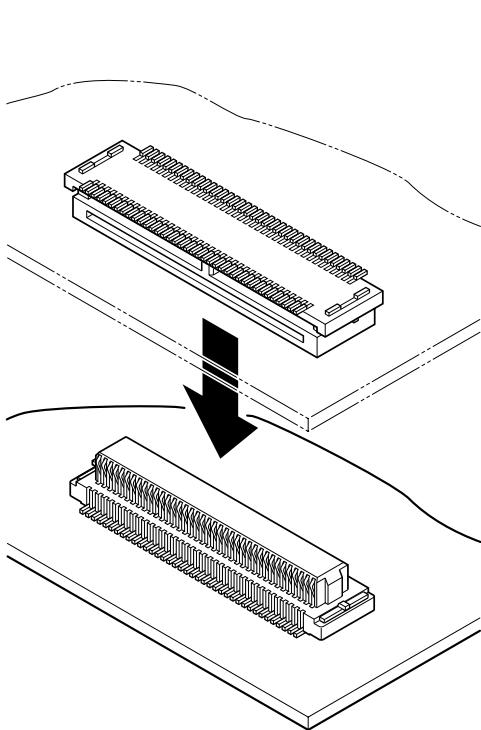
TABLE OF CONTENTS

<ul style="list-style-type: none"> • 0.4mm pitch • 0.5mm pitch • 0.6mm pitch • 1.25mm pitch • 1.5mm pitch • 2.0mm pitch • 2.5mm pitch 	<table border="0"> <tr><td>JAS CONNECTOR</td><td>142</td></tr> <tr><td>JAV CONNECTOR.....</td><td>144</td></tr> <tr><td>JAN CONNECTOR.....</td><td>146</td></tr> <tr><td>JMC CONNECTOR.....</td><td>148</td></tr> <tr><td>JU CONNECTOR</td><td>151</td></tr> <tr><td>JE CONNECTOR</td><td>153</td></tr> <tr><td>1.25FJ CONNECTOR</td><td>155</td></tr> <tr><td>1.5FJ CONNECTOR</td><td>157</td></tr> <tr><td>JDV CONNECTOR.....</td><td>159</td></tr> <tr><td>FJ CONNECTOR</td><td>161</td></tr> <tr><td>MQ CONNECTOR</td><td>163</td></tr> <tr><td>JQ CONNECTOR</td><td>165</td></tr> <tr><td>JL CONNECTOR</td><td>167</td></tr> <tr><td>2.5FJ CONNECTOR.....</td><td>169</td></tr> </table>	JAS CONNECTOR	142	JAV CONNECTOR.....	144	JAN CONNECTOR.....	146	JMC CONNECTOR.....	148	JU CONNECTOR	151	JE CONNECTOR	153	1.25FJ CONNECTOR	155	1.5FJ CONNECTOR	157	JDV CONNECTOR.....	159	FJ CONNECTOR	161	MQ CONNECTOR	163	JQ CONNECTOR	165	JL CONNECTOR	167	2.5FJ CONNECTOR.....	169
JAS CONNECTOR	142																												
JAV CONNECTOR.....	144																												
JAN CONNECTOR.....	146																												
JMC CONNECTOR.....	148																												
JU CONNECTOR	151																												
JE CONNECTOR	153																												
1.25FJ CONNECTOR	155																												
1.5FJ CONNECTOR	157																												
JDV CONNECTOR.....	159																												
FJ CONNECTOR	161																												
MQ CONNECTOR	163																												
JQ CONNECTOR	165																												
JL CONNECTOR	167																												
2.5FJ CONNECTOR.....	169																												



JAS CONNECTOR

0.4mm pitch/Board-to-board connectors



- **The plug housing is constructed of two separate parts. This allows the connector to be put under greater torsion strain than similar connectors without any damage being done to the solder joints.**
- **Both plug and receptacle have the double I type solder tabs, which reduces the stress by the distorted mating/unmating applied to the solder tails.**

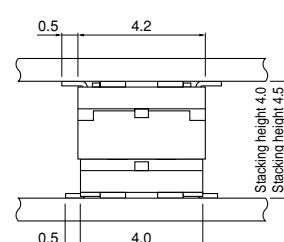
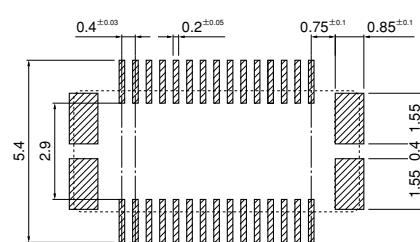
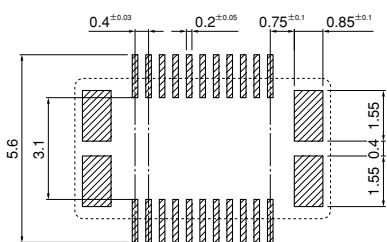
Specifications

- Current rating: 0.3A AC,DC
- Voltage rating: 30V AC,DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

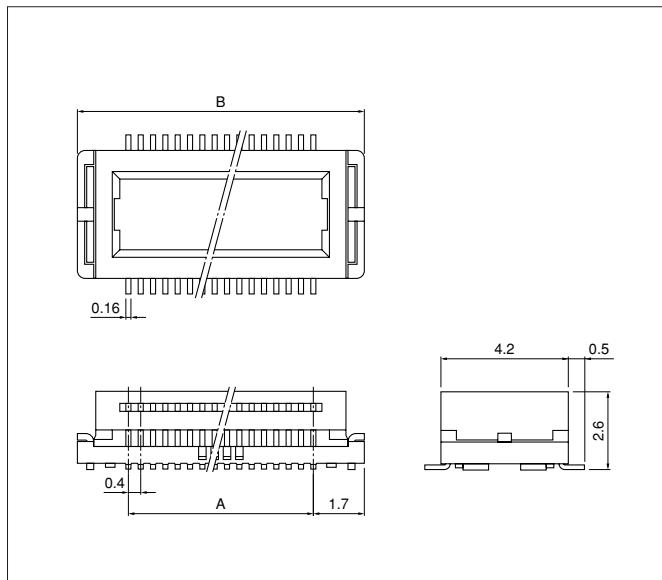
Plug

Receptacle



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
80	80P-JASKS-GE-TF	15.6	19.0	2,500
100	100P-JASKS-GE-TF	19.6	23.0	2,500
120	120P-JASKS-GE-TF2	23.6	27.0	1,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated

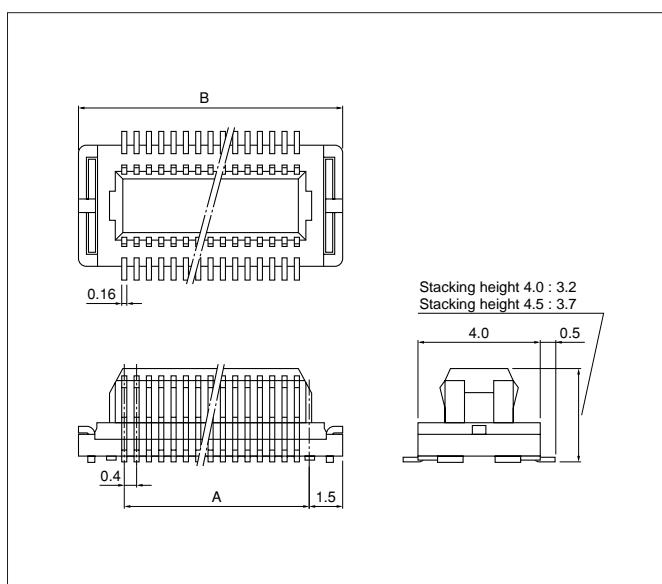
Housing: PPS, UL94V-0

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed-tape.

Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Stacking height		A	B		
	4.0mm	4.5mm				
80	80R-JASKS-GWAN-TF	—	—	15.6	18.6	2,500
100	100R-JASKS-GWAN-TF	100R4.5-JASKS-GWAN-TF	19.6	22.6	2,500	
120	—	120R4.5-JASKS-GWAN-TF2	23.6	26.6	1,500	

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)

Housing: LCP, UL94V-0

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

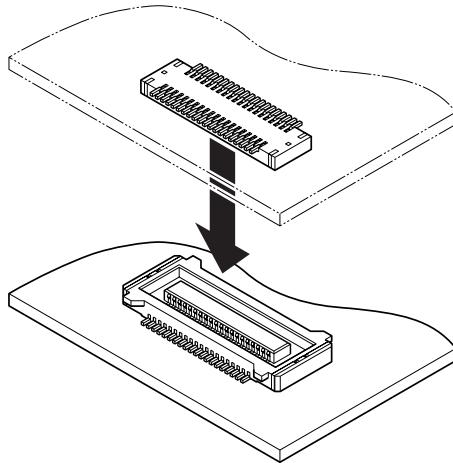
RoHS compliance This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed-tape.

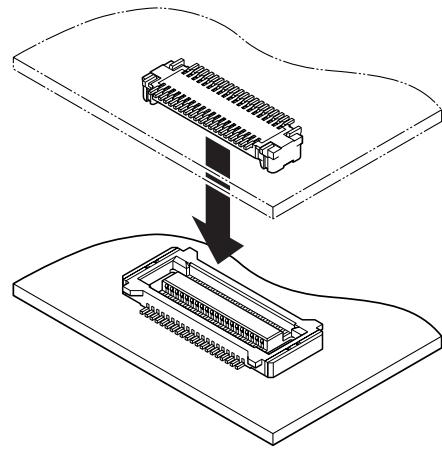


JAV CONNECTOR

0.4mm pitch/Board-to-board connectors



With mating guide



**0.4mm pitch, SMT, low profile connector
with parallel connection.**

- *Fine pitch and extremely low profile*
 - *Contact lock construction*
 - *Flat surface*
 - *Concentration contact structure with wiping action*
 - *Mating connector inside box shaped plug and receptacle*
 - *Solder going-up prevention*

JAV connector with mating guide

- *Mating guide structure*

Specifications

- Current rating: 0.3A AC, DC
 - Voltage rating: 30V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
 - Insulation resistance: 50M Ω min.
 - Withstanding voltage: 100V AC/minute
 - * RoHS compliant products are published.
 - * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 - * Contact JST for details.

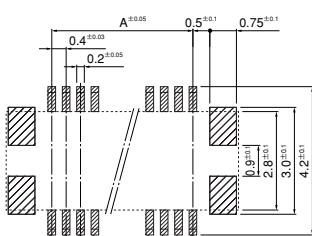
Standards

 Recognized E60389

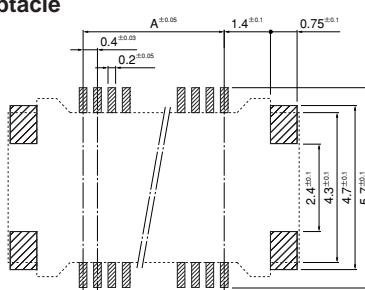
CSA Certified LR20812

PC board layout (viewed from component side) and Assembly layout

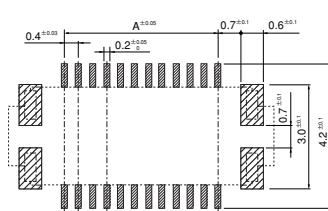
Plug



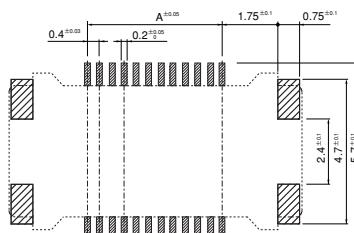
Receptacle



Plug/with mating guide



Receptacle/with mating guide

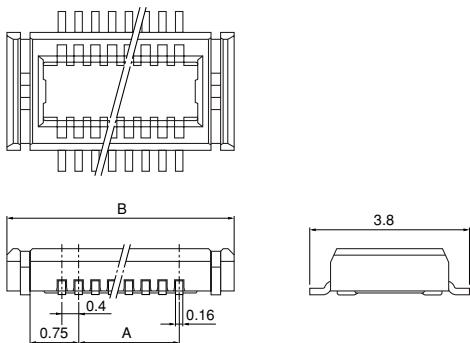


A technical drawing of a U-shaped metal bracket. The top horizontal dimension is labeled '3.8'. The bottom horizontal dimension is labeled '5.3'. The vertical height of the U-shape is labeled '1.5'.

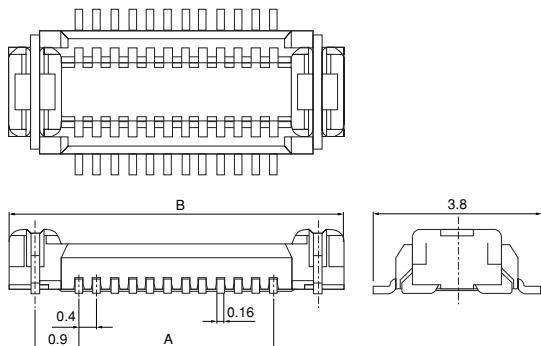
Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.

1. Tolerances are non-cumulative. $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug



With mating guide



Circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
*20	20PA-JAVK-GSAN-TF	3.6	6.2	3,500
22	22PA-JAVK-GSAN-TF	4.0	6.6	3,500
26	26PA-JAVK-GSAN-TF	4.8	7.4	3,500
30	30PA-JAVK-GSAN-TF	5.6	8.2	3,500
40	40PA-JAVK-GSAN-TF	7.6	10.2	3,500
*70	70PA-JAVK-GSAN-TF	13.6	16.2	3,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. *Marked products are not CSA approved.

With mating guide

Circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
24	24PA-JAVK-GSAN-1-TF	4.4	7.6	3,000

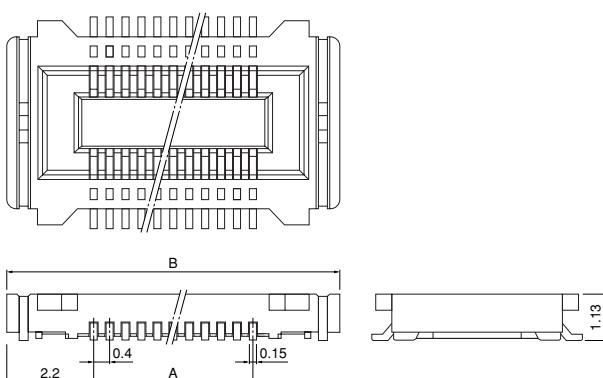
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

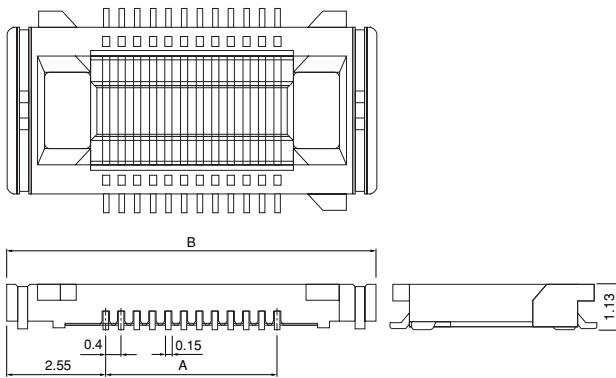
RoHS compliance

This product displays (LF)(SN) on a label.
Note: The product listed above is supplied on embossed-tape.

Receptacle



With mating guide



Circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
*20	20R-JAVK-GSAN-TF	3.6	8.0	3,500
22	22R-JAVK-GSAN-TF	4.0	8.4	3,500
26	26R-JAVK-GSAN-TF	4.8	9.2	3,500
30	30R-JAVK-GSAN-TF	5.6	10.0	3,500
40	40R-JAVK-GSAN-TF	7.6	12.0	3,500
*70	70R-JAVK-GSAN-TF	13.6	18.0	3,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. *Marked products are not CSA approved.

With mating guide

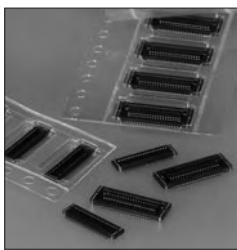
Circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
24	24R-JAVK-GSAN-1-TF	4.4	9.5	3,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

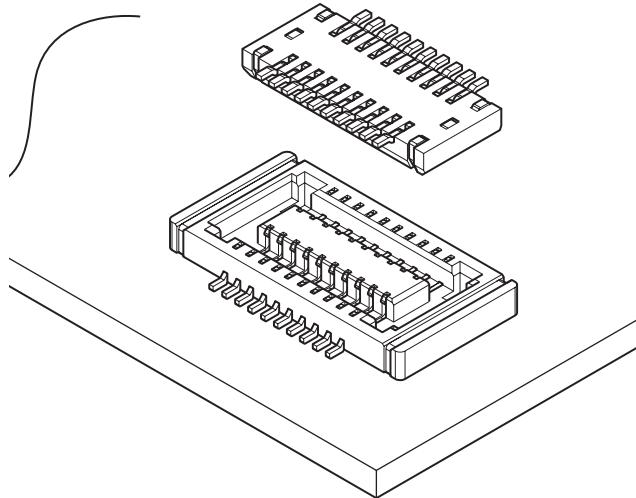
RoHS compliance

This product displays (LF)(SN) on a label.
Note: The product listed above is supplied on embossed-tape.



JAN CONNECTOR

0.4mm pitch/Board-to-board connectors



This JAN connector is a board-to-board connector with stacking height 1.0mm and 0.4mm pitch, which is the lowest-profile connector in the [electro mechanical component] industry.

In consideration of operability at user side, although it is 1.0mm low profile, when mating receptacle with plug, the connector structure, where the large amount of guiding connector can be taken, is adopted, and differentiates JAN connector with added value.

- Locking mechanism of contact
- Wiping contact structure
- Reinforcement tabs

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

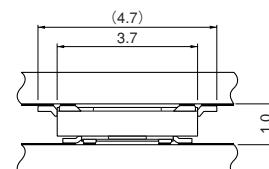
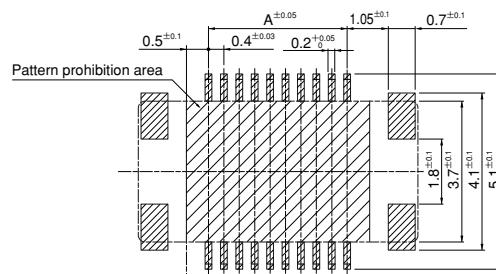
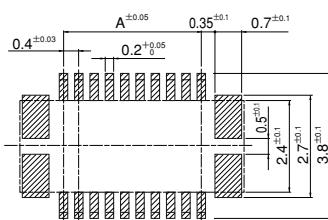
■ Recognized E60389

■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

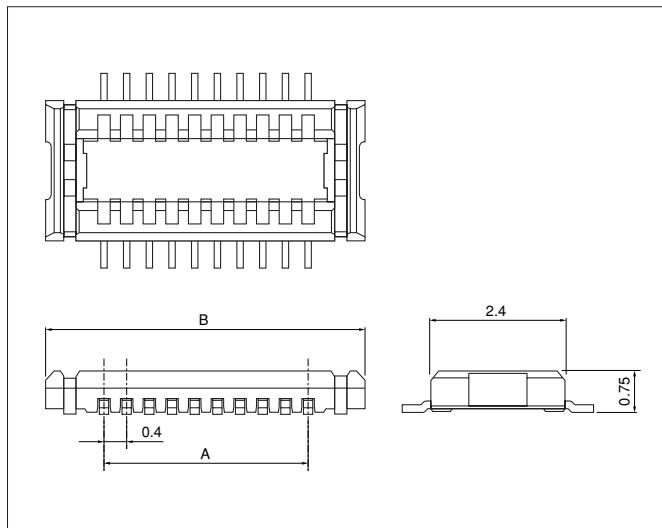
Plug

Receptacle



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug



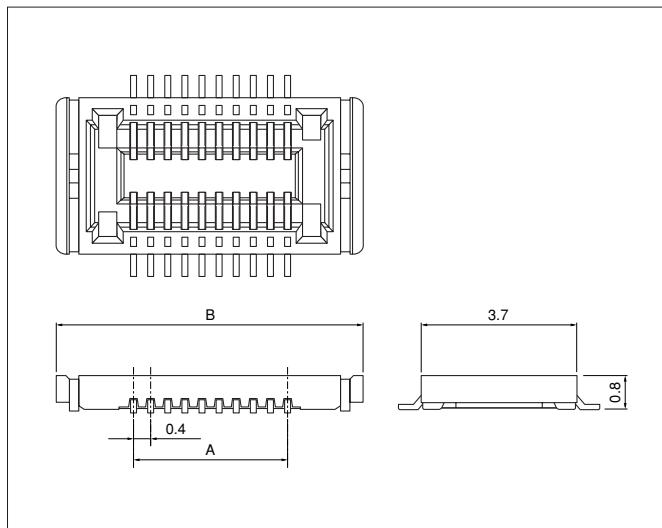
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	20P-JANK-GSAN-2-TF	3.6	5.6	4,000
24	24P-JANK-GSAN-2-TF	4.4	6.4	4,000
34	34P-JANK-GSAN-2-TF	6.4	8.4	4,000
40	40P-JANK-GSAN-2-TF	7.6	9.6	4,000
60	60P-JANK-GSAN-2-TF	11.6	13.6	4,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

Receptacle

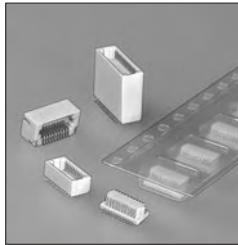


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	20R-JANK-GSAN-TF	3.6	7.2	4,000
24	24R-JANK-GSAN-TF	4.4	8.0	4,000
34	34R-JANK-GSAN-TF	6.4	10.0	4,000
40	40R-JANK-GSAN-TF	7.6	11.2	4,000
60	60R-JANK-GSAN-TF	11.6	15.2	4,000

Material and Finish

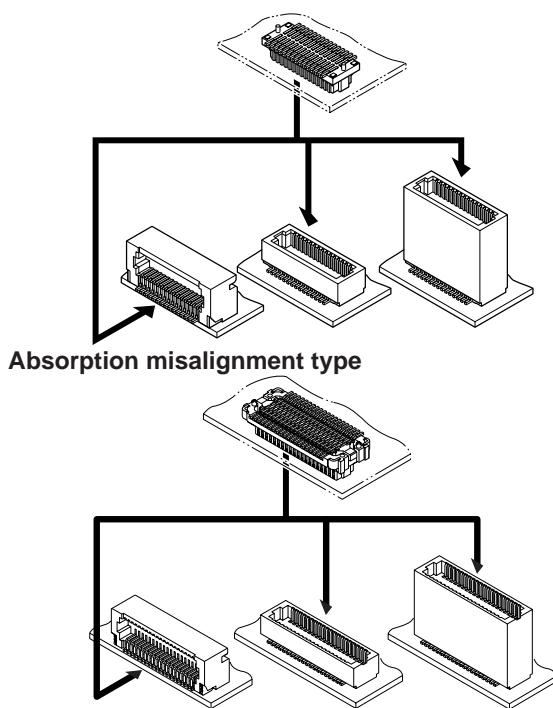
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.



JMC CONNECTOR

0.5mm pitch/Board-to-board connectors



This JMC connector is 0.5mm pitch SMT type board to board connector with selection of boss existence. Comparing with conventional JMC connector, more small and space saving are realized.

- Secure mating
- Distortion preventive construction
- Versatile number of circuit and height
- Absorbing misalignment when mating connector

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

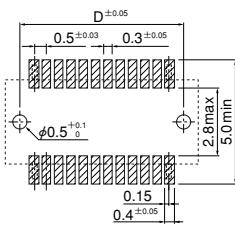
Standards

■ Recognized E60389

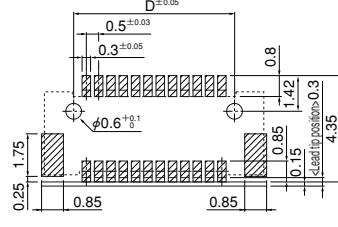
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

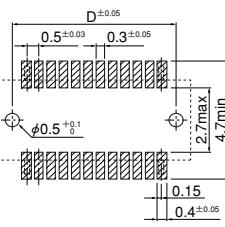
Plug: Top entry type



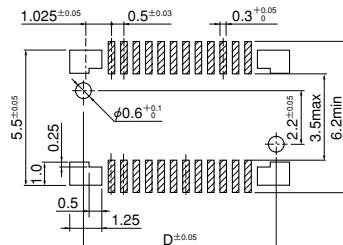
Plug: Side entry type



Receptacle



Absorption misalignment type

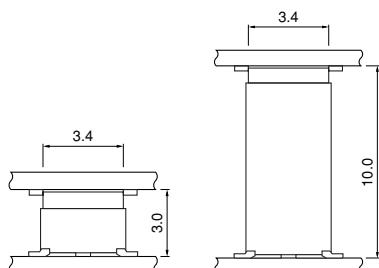


Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.

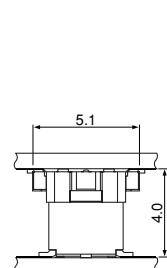
2. The dimensions above should serve as a guideline. Contact JST for details.

Top entry type

Stacking height: 3.0 to 10.0mm

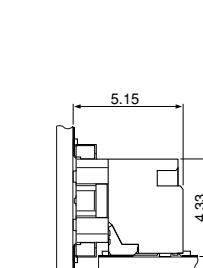
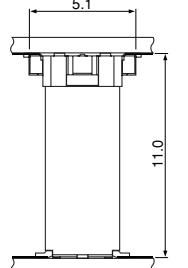


Absorption misalignment type
Stacking height: 4.0 to 11.0mm



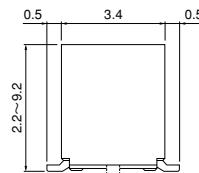
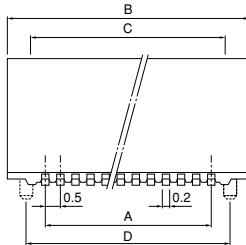
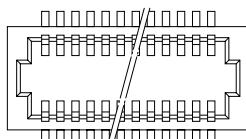
Side entry type

Absorption
misalignment type

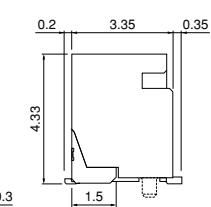
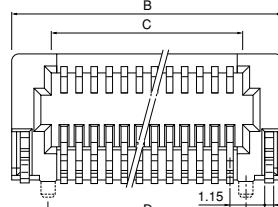
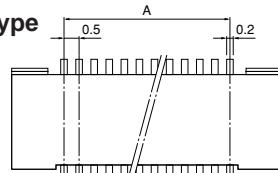


Plug

Top entry type



Side entry type



Top entry type

Circuits	Model No.	Dimensions (mm)					
		Stacking height (mm)			A	B	C
		3.0	3.5	4.0	4.5		
Without bosses	18P3.0-JMCS-G-TF	—	—	—	4.0	6.4	4.9
	20P3.0-JMCS-G-TF	20P3.5-JMCS-G-TF	—	—	4.5	6.9	5.4
	24	24P3.5-JMCS-G-TF	—	—	5.5	7.9	6.4
	30	30P3.0-JMCS-G-TF	30P3.5-JMCS-G-TF	30P4.0-JMCS-G-TF	7.0	9.4	7.9
	40	40P3.0-JMCS-G-TF	40P3.5-JMCS-G-TF	40P4.0-JMCS-G-TF	9.5	11.9	10.4
	50	50P3.0-JMCS-G-TF	—	—	12.0	14.4	12.9
With bosses	60	60P3.0-JMCS-G-TF	—	—	14.5	16.9	15.4
	20	20P3.0-JMCS-G-B-TF	20P3.5-JMCS-G-B-TF	—	4.5	6.9	5.4
	24	—	—	24P4.0-JMCS-G-B-TF	5.5	7.9	6.4
	30	—	30P3.5-JMCS-G-B-TF	30P4.0-JMCS-G-B-TF	7.0	9.4	7.9
	40	40P3.0-JMCS-G-B-TF	40P3.5-JMCS-G-B-TF	40P4.0-JMCS-G-B-TF	9.5	11.9	10.4
	44	44P3.0-JMCS-G-B-TF	—	—	10.5	12.9	11.4
	50	50P3.0-JMCS-G-B-TF	—	50P4.0-JMCS-G-B-TF	12.0	14.4	12.9
	60	—	—	60P4.0-JMCS-G-B-TF	14.5	16.9	15.4
Q'ty / reel		2,500	2,000	2,000	1,500		

Circuits	Model No.	Dimensions (mm)					
		Stacking height (mm)			A	B	C
		5.0	5.5	6.0	6.5		
Without bosses	14	14P5.0-JMCS-G-TF	—	—	—	3.0	5.4
	20	20P5.0-JMCS-G-TF	20P5.5-JMCS-G-TF	20P6.0-JMCS-G-TF	—	4.5	6.9
	30	—	—	—	30P6.5-JMCS-G-TF	7.0	9.4
	40	40P5.0-JMCS-G-TF	—	—	—	9.5	11.9
	50	50P5.0-JMCS-G-TF	—	—	—	12.0	14.4
	60	—	60P5.5-JMCS-G-TF	—	—	14.5	16.9
With bosses	14	14P5.0-JMCS-G-B-TF	—	—	—	3.0	5.4
	20	20P5.0-JMCS-G-B-TF	20P5.5-JMCS-G-B-TF	20P6.0-JMCS-G-B-TF	—	4.5	6.9
	30	—	—	—	30P6.5-JMCS-G-B-TF	7.0	9.4
	40	40P5.0-JMCS-G-B-TF	—	40P6.0-JMCS-G-B-TF	40P6.5-JMCS-G-B-TF	9.5	11.9
	60	60P5.0-JMCS-G-B-TF	—	60P6.0-JMCS-G-B-TF	—	14.5	16.9
Q'ty / reel		1,500	1,000	1,000	1,000		

Circuits	Model No.	Dimensions (mm)					
		Stacking height (mm)			A	B	C
		7.0	7.5	8.0	8.5		
Without bosses	20	20P7.0-JMCS-G-TF	—	—	—	4.5	6.9
	50	50P7.0-JMCS-G-TF	—	—	—	12.0	14.4
With bosses	34	—	—	—	34P8.5-JMCS-G-B-TF	8.0	10.4
	50	50P7.0-JMCS-G-B-TF	50P7.5-JMCS-G-B-TF	50P8.0-JMCS-G-B-TF	—	12.0	14.4
	64	—	—	64P8.0-JMCS-G-B-TF	—	15.5	17.9
	Q'ty / reel	1,000	600	600	500		

Circuits	Model No.	Dimensions (mm)					
		Stacking height (mm)			A	B	C
		9.0	10.0	—	—		
Without bosses	20	—	20P10.0-JMCS-G-TF	—	—	4.5	6.9
	30	30P9.0-JMCS-G-TF	—	—	—	7.0	9.4
With bosses	50	50P9.0-JMCS-G-TF	—	—	—	12.0	14.4
	20	—	20P10.0-JMCS-G-B-TF	—	—	4.5	6.9
	30	30P9.0-JMCS-G-B-TF	—	—	—	7.0	9.4
	40	40P9.0-JMCS-G-B-TF	40P10.0-JMCS-G-B-TF	—	—	9.5	11.9
	50	50P9.0-JMCS-G-B-TF	—	—	—	12.0	14.4
Q'ty / reel		500	500	—	—	14.5	16.9

RoHS compliance

- Note: 1. The stacking height of absorption misalignment type is 1.0mm higher than that of standard type.
 2. Nickel-stripe product: "(N)" is suffixed to the model No.
 3. The products listed above are supplied on embossed-tape.

JMC CONNECTOR

Plug

Side entry type

	Circuits	Model No.	Dimensions (mm)				Q'ty/reel
			A	B	C	D	
Without bosses	20	20PS-JMCS-G-1-TF	4.5	7.9	5.4	—	1,500
	24	24PS-JMCS-G-1-TF	5.5	8.9	6.4	—	1,500
	30	30PS-JMCS-G-1-TF	7.0	10.4	7.9	—	1,500
	34	34PS-JMCS-G-1-TF	8.0	11.4	8.9	—	1,500
	40	40PS-JMCS-G-1-TF	9.5	12.9	10.4	—	1,500
	50	50PS-JMCS-G-1-TF	12.0	15.4	12.9	—	1,500
	60	60PS-JMCS-G-1-TF	14.5	17.9	15.4	—	1,500
With bosses	20	20PS-JMCS-G-1B-TF	4.5	7.9	5.4	5.55	1,500
	24	24PS-JMCS-G-1B-TF	5.5	8.9	6.4	6.55	1,500
	30	30PS-JMCS-G-1B-TF	7.0	10.4	7.9	8.05	1,500
	34	34PS-JMCS-G-1B-TF	8.0	11.4	8.9	9.05	1,500
	40	40PS-JMCS-G-1B-TF	9.5	12.9	10.4	10.55	1,500
	46	46PS-JMCS-G-1B-TF	11.0	14.4	11.9	12.05	1,500
	50	50PS-JMCS-G-1B-TF	12.0	15.4	12.9	13.05	1,500
	60	60PS-JMCS-G-1B-TF	14.5	17.9	15.4	15.55	1,500

Material and Finish

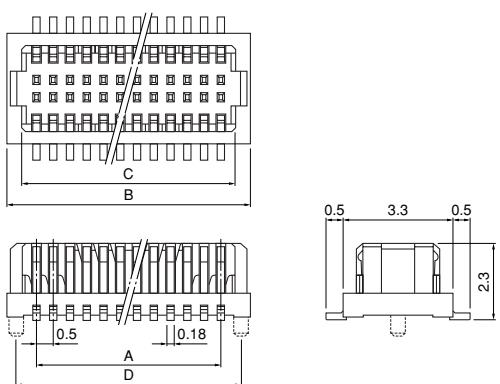
Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0
Solder tab: Brass, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.

- Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(N)" is suffixed to the model No.

Receptacle



Circuits	Model No.		Dimensions (mm)				Q'ty / reel
	Without bosses	With bosses	A	B	C	D	
14	14R-JMCS-G-TF (S)	14R-JMCS-G-B-TF(S)	3.0	4.8	3.9	4.2	2,500
18	18R-JMCS-G-TF (S)	—	4.0	5.8	4.9	5.2	2,500
20	20R-JMCS-G-TF (S)	20R-JMCS-G-B-TF(S)	4.5	6.3	5.4	5.7	2,500
24	24R-JMCS-G-TF (S)	24R-JMCS-G-B-TF(S)	5.5	7.3	6.4	6.7	2,500
30	30R-JMCS-G-TF (S)	30R-JMCS-G-B-TF(S)	7.0	8.8	7.9	8.2	2,500
34	34R-JMCS-G-TF (S)	34R-JMCS-G-B-TF(S)	8.0	9.8	8.9	9.2	2,500
40	40R-JMCS-G-TF (S)	40R-JMCS-G-B-TF(S)	9.5	11.3	10.4	10.7	2,500
46	46R-JMCS-G-TF (S)	46R-JMCS-G-B-TF(S)	11.0	12.8	11.9	12.2	2,500
50	50R-JMCS-G-TF (S)	50R-JMCS-G-B-TF(S)	12.0	13.8	12.9	13.2	2,500
60	60R-JMCS-G-TF (S)	60R-JMCS-G-B-TF(S)	14.5	16.3	15.4	15.7	2,500

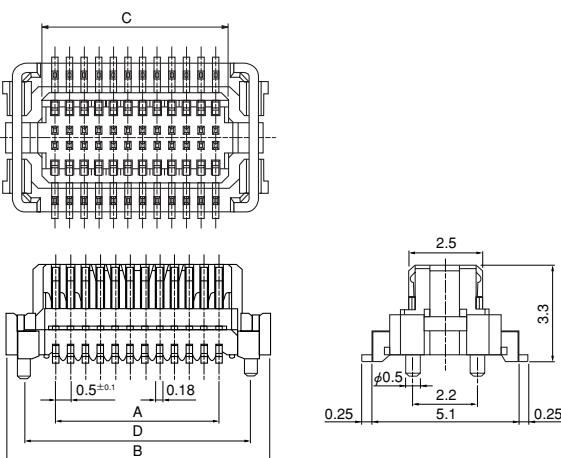
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0

RoHS compliance

- Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(NSA)" instead of "(S)" is suffixed to model No.

Absorption misalignment type



Circuits	Model No.		Dimensions (mm)				Q'ty / reel
	Without bosses	With bosses	A	B	C	D	
20	20RF-JMCS-G-1-TF	20RF-JMCS-G-1B-TF	4.5	8.0	5.4	6.75	1,000
30	30RF-JMCS-G-1-TF	30RF-JMCS-G-1B-TF	7.0	10.5	7.9	9.25	1,000
40	40RF-JMCS-G-1-TF	40RF-JMCS-G-1B-TF	9.5	13.0	10.4	11.75	1,000
44	—	*44RF-JMCS-G-1B-TF	10.5	14.0	11.4	12.75	1,000
50	50RF-JMCS-G-1-TF	50RF-JMCS-G-1B-TF	12.0	15.5	12.9	14.25	1,000
60	60RF-JMCS-G-1-TF	60RF-JMCS-G-1B-TF	14.5	18.0	15.4	16.75	1,000
64	—	*64RF-JMCS-G-1B-TF	15.5	19.0	16.4	17.75	1,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

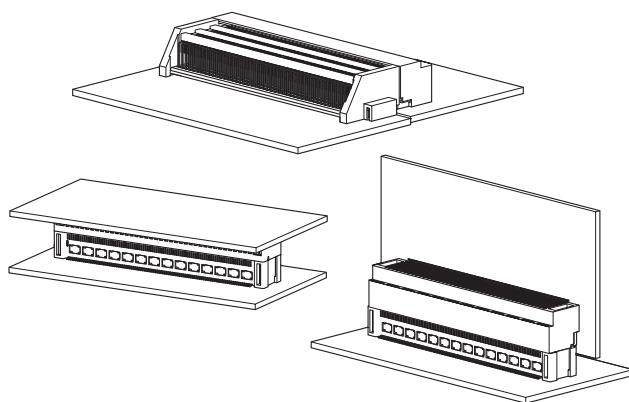
RoHS compliance

- This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(N)" is suffixed to model No.
3. *Marked products are not CSA approved.



JU CONNECTOR

0.6mm pitch/Board-to-board connectors



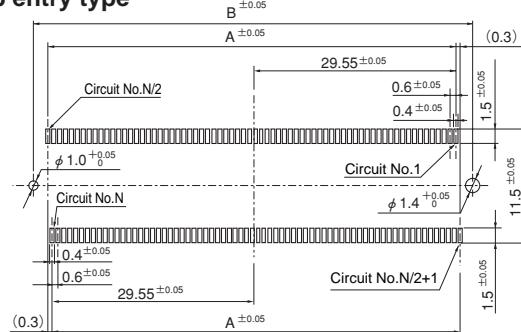
JU connector is developed upon recent market requirement, which demands higher density for digitized electronic equipment. Various mating combination can be chosen at your purpose vertically/vertically, both plug and receptacle are available top and side entry. Box type wafer prevents from scattered flux equipped with polarized shape which guides correct mating. Longer mating stroke stabilize and secure mating and contact performance.

- Higher density contributes
- Various combination
- Lower insertion force

PC board layout (viewed from component side)

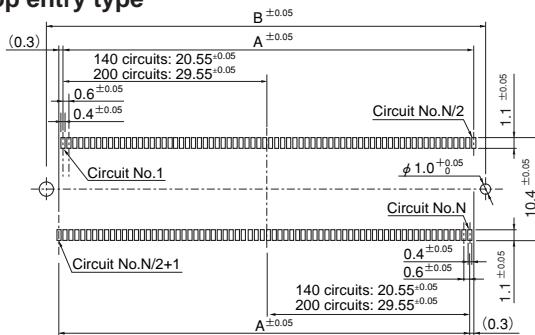
Plug

Top entry type



Receptacle

Top entry type



Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/80m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

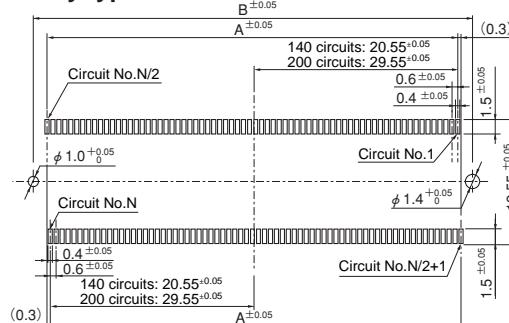
Standards

■ Recognized E60389

■ Certified LR20812

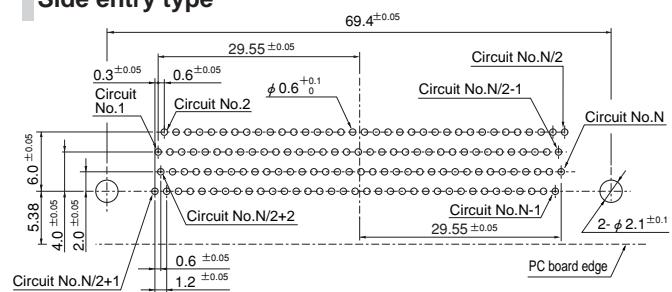
Plug

Side entry type



Receptacle

Side entry type



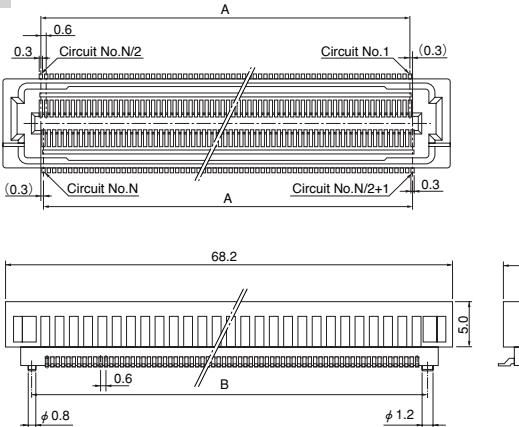
Note: 1. Tolerances are non-cumulative: ± 0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

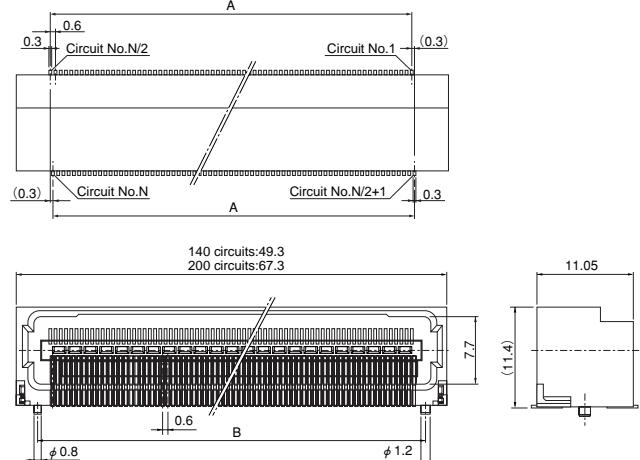
JU CONNECTOR

Plug

Top entry type



Side entry type



Cir-cuits	Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
140	—	140PS-JUK-G-B(A)	41.4	44.5	—	60
200	200P-JUK-G-B	200PS-JUK-G-B(A)	59.4	62.5	75	60

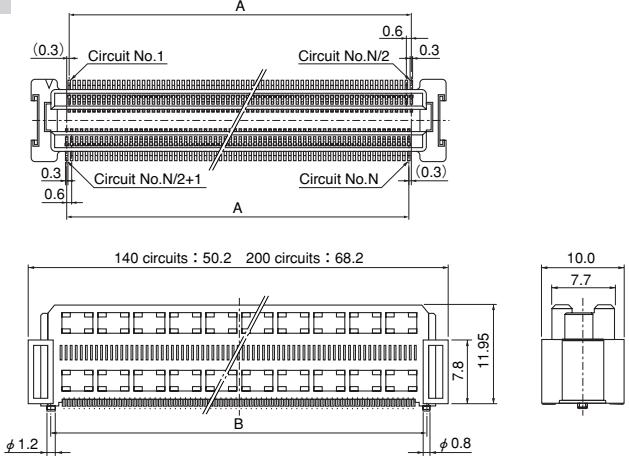
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0

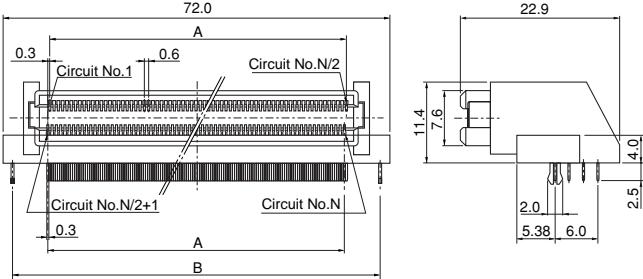
RoHS compliance

Receptacle

Top entry type



Side entry type



Top entry type

Circuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
140	140R-JUK-G-B	41.4	44.5	45
200	200R-JUK-G-B	59.4	62.5	45

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0

RoHS compliance

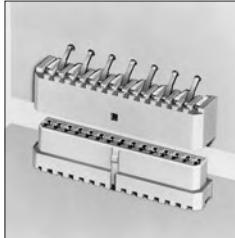
Side entry type

Circuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
200	200RS-JUK-GB	59.4	69.4	128

Material and Finish

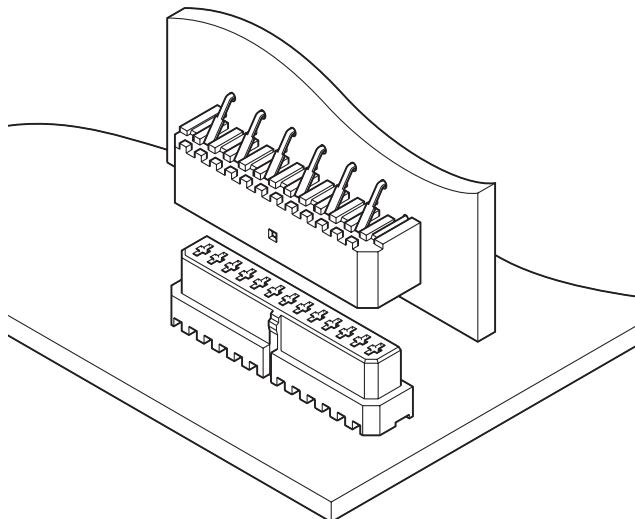
Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail; tin/copper alloy-plated
Housing: LCP, UL94V-0
Locator: Synthetic resin
Solder tab: Copper-alloy, tin-plated (reflow treatment)

RoHS compliance



JE CONNECTOR

1.25mm pitch/Board-to-board connectors



The JE connector is a compact, board-to-board connector only 6.8mm high and 3.6mm wide. Its mating part has a 1.25mm pitch, single row construction. High contact pressure dual beam fork contacts are combined with a housing lock mechanism to ensure a reliable connection.

- A compact design to meet today's needs
- Secure locking and reliable connection
- Box shaped housing
- Easy mounting and no flux problems

Specifications

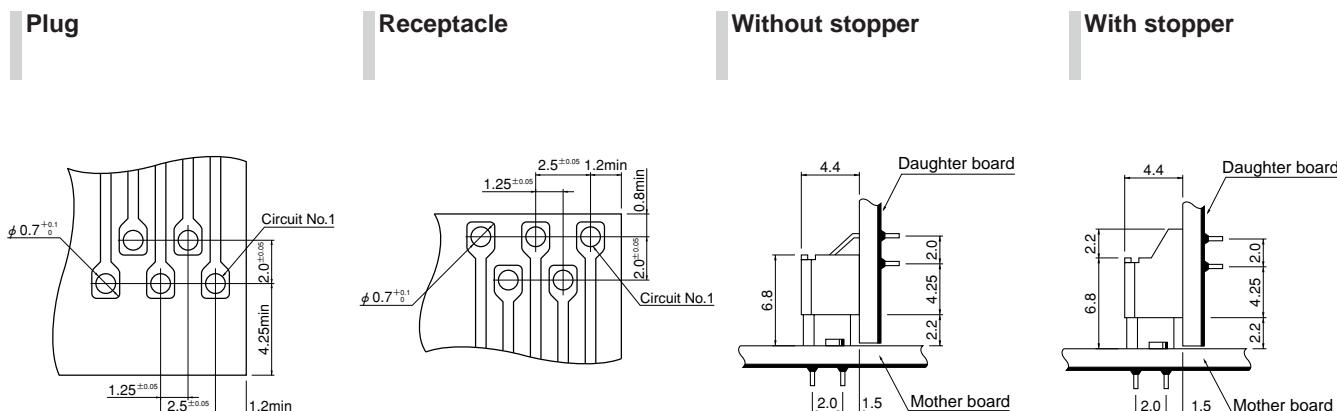
- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20mΩ max.
After environmental testing/40mΩ max.
- Insulation resistance: 500MΩ min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

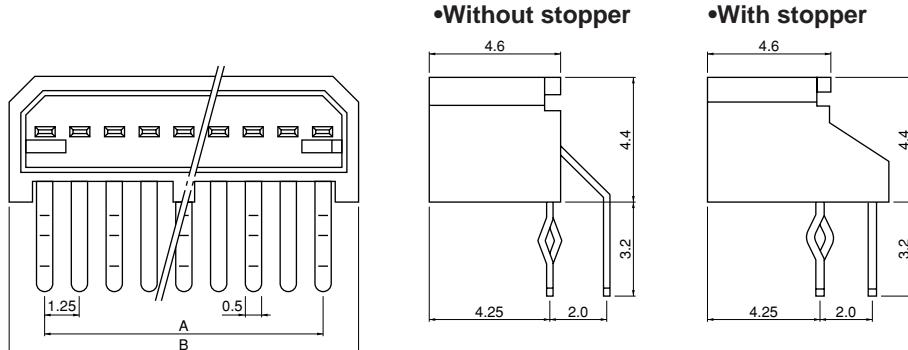


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

Note: The daughter board should be secured. For details of the securing method, contact JST.

JE CONNECTOR

Plug



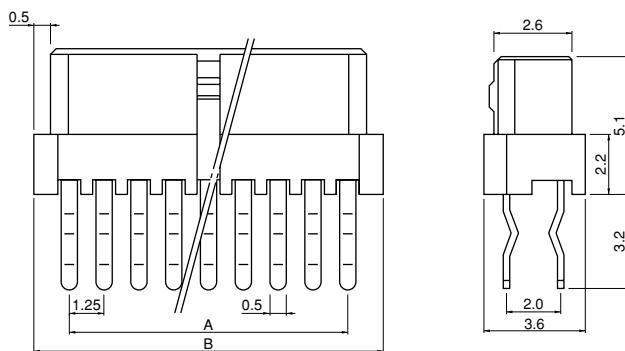
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without stopper	With stopper	A	B	
5	05PS-JE	05PSL-JE	5.0	7.4	1,400
7	07PS-JE	07PSL-JE	7.5	9.9	1,050
9	09PS-JE	09PSL-JE	10.0	12.4	800
11	11PS-JE	11PSL-JE	12.5	14.9	700
13	13PS-JE	13PSL-JE	15.0	17.4	600
15	15PS-JE	15PSL-JE	17.5	19.9	500
17	17PS-JE	17PSL-JE	20.0	22.4	450
19	19PS-JE	19PSL-JE	22.5	24.9	400

Material and Finish

Contact: Brass, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle

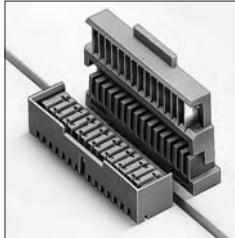


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
5	05R-JE	5.0	7.4	1,000
7	07R-JE	7.5	9.9	1,000
9	09R-JE	10.0	12.4	1,700
11	11R-JE	12.5	14.9	1,400
13	13R-JE	15.0	17.4	1,200
15	15R-JE	17.5	19.9	1,000
17	17R-JE	20.0	22.4	900
19	19R-JE	22.5	24.9	800

Material and Finish

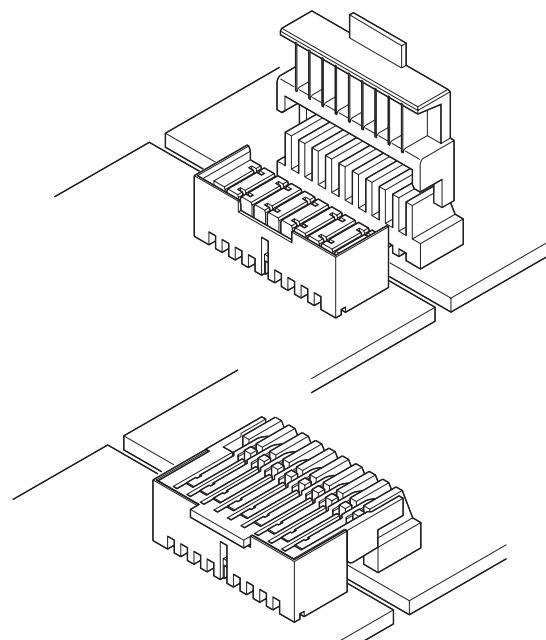
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.



1.25FJ CONNECTOR

1.25mm pitch/Board-to-board connectors



The 1.25FJ connector is a 1.25mm pitch board-to-board connector. Its plug consists of a unique flexible hinge that absorbs circuit board misalignment. Board-to-board connection requires less labor and is more reliable because the connection can be made without the use of harnesses after the printed circuit boards are installed in their enclosures.

- Low profile
- Allows connection after mounting
- Assures a reliable connection

Specifications

- Current rating: 0.5A(1.0A :1.25FJ-N type) AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Short type.....Initial value/40m Ω max.
After environmental testing/60m Ω max.
 - Long type.....Initial value/70m Ω max.
After environmental testing/90m Ω max.
 - 1.25FJ-N type... Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

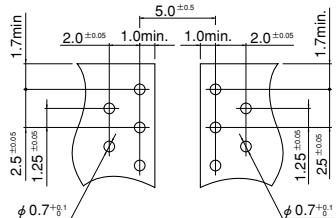
Standards

■ Recognized E60389

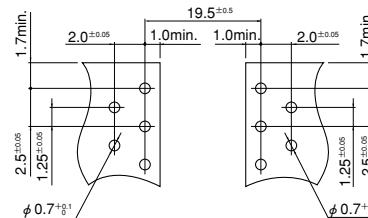
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

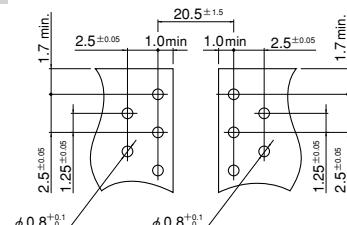
Short type



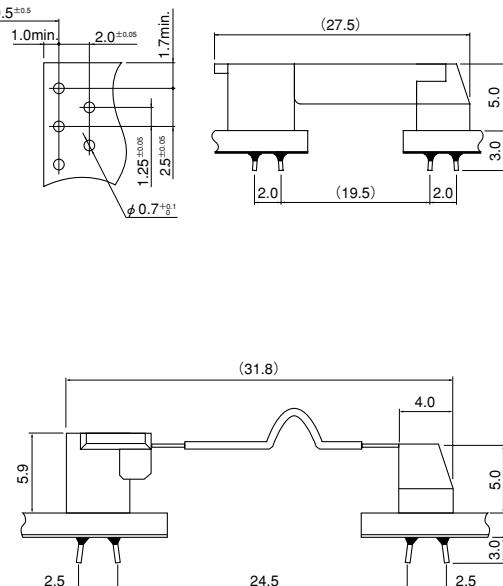
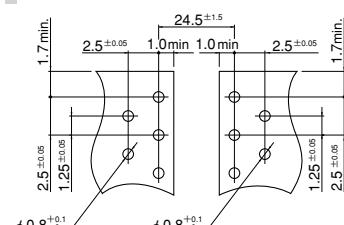
Long type



1.25FJ-N type(250)



1.25FJ-N type(280)



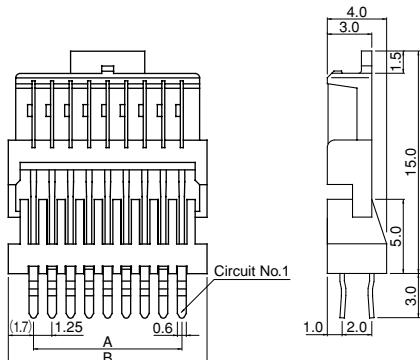
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

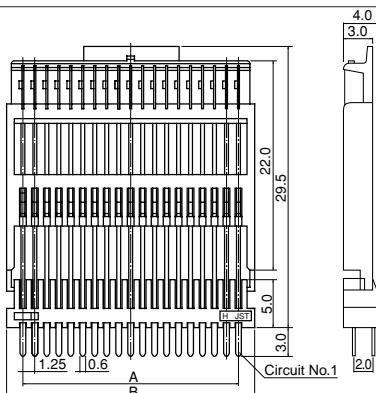
1.25FJ CONNECTOR

Plug

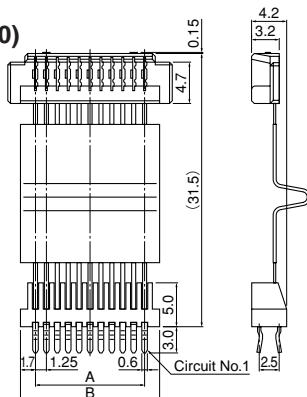
Short type



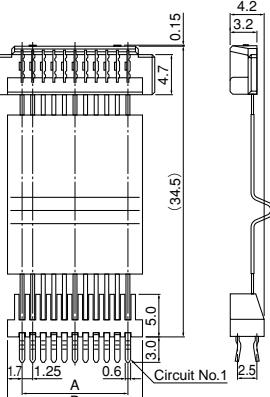
Long type



1.25FJ-N type (250)



1.25FJ-N type (280)



Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	Long type	1.25FJ-N type		A	B	Short type	Long type	1.25FJ-N type	
			250 type	280 type					250 type	280 type
7	—	—	07P250K-1.25FJNA	07P280K-1.25FJN	7.5	10.9	—	—	400	400
9	09P-1.25FJ	—	—	—	10.0	13.4	120	—	—	—
11	11P-1.25FJ	—	11P250K-1.25FJNA	11P280K-1.25FJN	12.5	15.9	120	—	280	280
13	13P-1.25FJ	—	13P250K-1.25FJNA	13P280K-1.25FJN	15.0	18.4	120	—	280	280
15	15P-1.25FJ	—	—	—	17.5	20.9	120	—	—	—
19	19P-1.25FJ	19P215S-1.25FJ	19P250K-1.25FJNA	19P280K-1.25FJN	22.5	25.9	120	280	200	200
21	21P-1.25FJ	—	—	—	25.0	28.4	120	—	—	—

Material and Finish

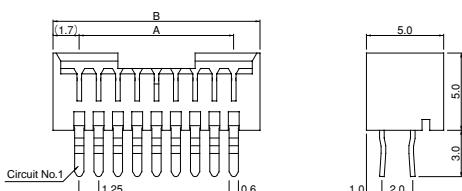
Contact: Short type & Long type / Phosphor bronze, tin-plated (reflow treatment)
1.25FJ-N type / Copper-alloy, tin-plated (reflow treatment)

Housing: Glass-filled PA 66, UL94V-0

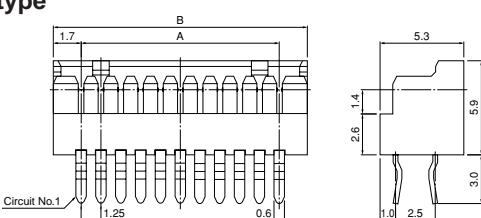
RoHS compliance

Receptacle

Short type & Long type



1.25FJ-N type

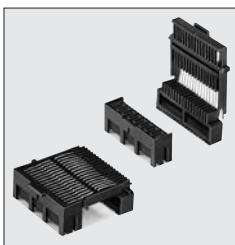


Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type & Long type	1.25FJ-N type	A	B	Short type & Long type	1.25FJ-N type
7	—	07RK-1.25FJN	7.5	10.9	—	1,710
9	09R-1.25FJ	—	10.0	13.4	500	—
11	11R-1.25FJ	11RK-1.25FJN	12.5	15.9	500	1,170
13	13R-1.25FJ	13RK-1.25FJN	15.0	18.4	500	990
15	15R-1.25FJ	—	17.5	20.9	500	—
19	19R-1.25FJ	19RK-1.25FJN	22.5	25.9	250	720
21	21R-1.25FJ	—	25.0	28.4	200	—

Material and Finish

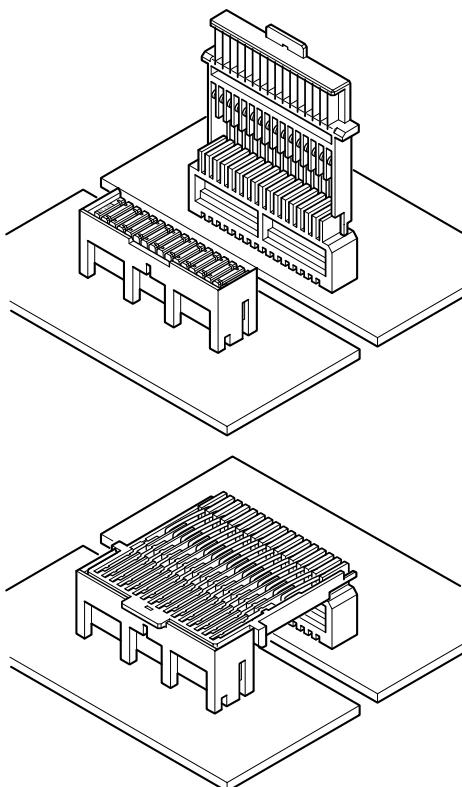
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.



1.5FJ CONNECTOR

1.5mm pitch/Board-to-board connectors



The 1.5FJ connector is a 1.5mm pitch board-to-board connector. Its plug consists of a unique flexible hinge that absorbs circuit board misalignment. Board-to-board connection requires less labor and is more reliable because the connection can be made without the use of harnesses after the printed circuit boards are installed in their enclosures.

- Flexible connection absorbs circuit board misalignment
- Provides a low profile mount and allows connection after mounting
- Assures a reliable connection

Specifications

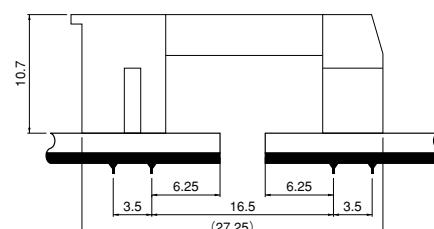
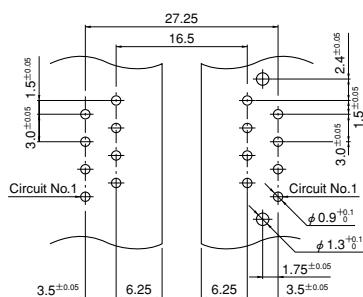
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/80mΩ max.
After environmental testing/100mΩ max.
- Insulation resistance: 500MΩ min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

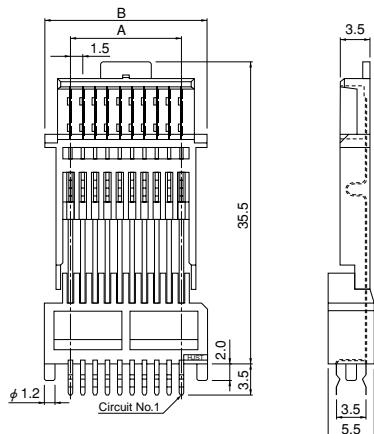


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

1.5FJ CONNECTOR

Plug



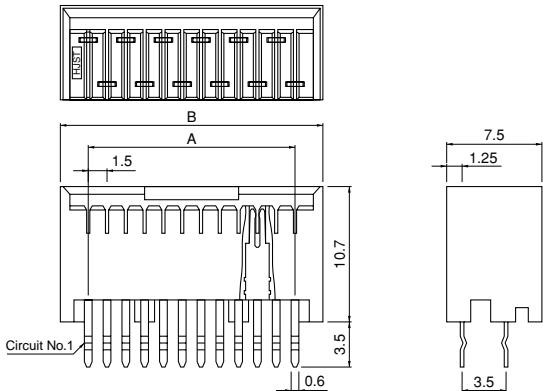
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
8	08P-1.5FJ	10.5	16.5	245
16	16P-1.5FJ	22.5	28.5	140

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Receptacle



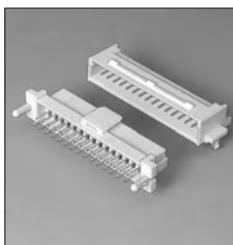
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
8	08R-1.5FJ	10.5	15.0	440
16	16R-1.5FJ	22.5	27.0	220

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0, black

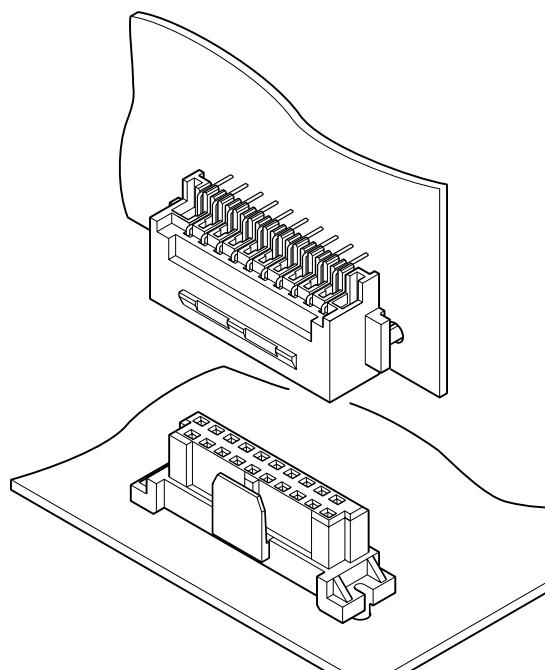
RoHS compliance

This product displays (LF)(SN) on a label.



JDV CONNECTOR

1.5mm pitch/Hinge type Board - to - board Connectors



The JDV connector is designed for board-to-board connection with locking device, and highly resistant to equipment vibration and shock.

- Two type Locking device
- Staggered Solder Tails
- Positioning boss (projection)

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30mΩ max.
After environmental testing/50mΩ max.
- Insulation resistance: 800MΩ min.
- Withstanding voltage: 300V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

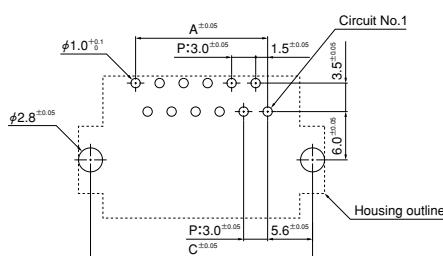
Standards

■ Recognized E60389

■ Certified LR20812

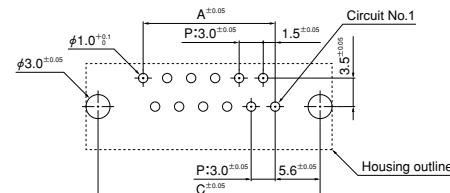
PC board layout (viewed from component side) and Assembly layout

Plug

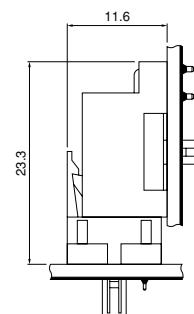
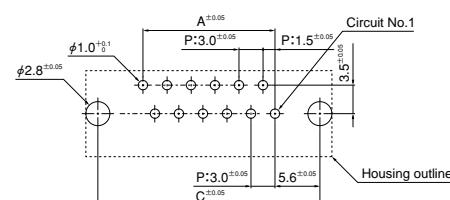


Receptacle

Resin hook type



Metal hook type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

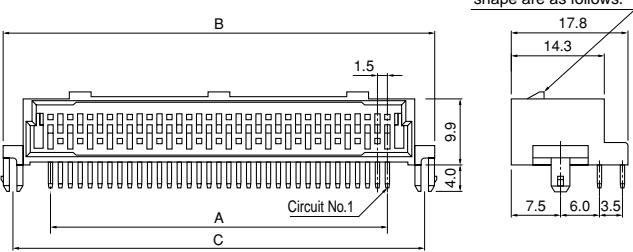
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

JDV CONNECTOR

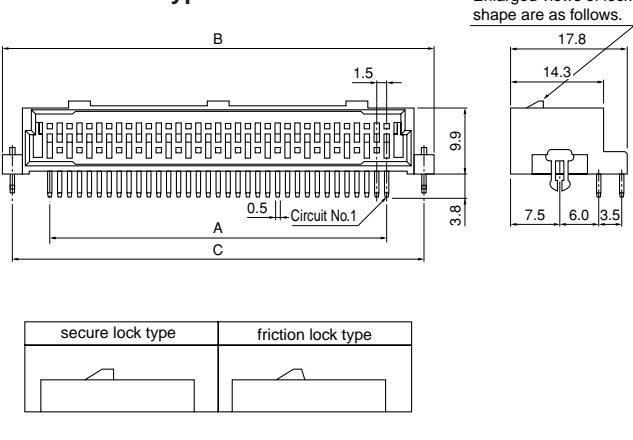
Plug

Retention lock type

Resin hook type



Metal hook type



Resin hook type

Circuits	Model No.		Dimensions (mm)			Q'ty / box
	secure lock type	friction lock type	A	B	C	
15	JDV-PS15LB-10-1	—	21.0	35.5	32.2	400
20	JDV-PS20LB-10-1	JDV-PS20FLB-10-1	28.5	43.0	39.7	320
25	JDV-PS25LB-10-1	JDV-PS25FLB-10-1	36.0	50.5	47.2	280
30	JDV-PS30LB-10-1	JDV-PS30FLB-10-1	43.5	58.0	54.7	240
35	JDV-PS35LB-10-1	JDV-PS35FLB-10-1	51.0	65.5	62.2	200
40	JDV-PS40LB-10-1	JDV-PS40FLB-10-1	58.5	73.0	69.7	160
50	JDV-PS50LB-10-1	JDV-PS50FLB-10-1	73.5	88.0	84.7	160

Material and Finish

Contact: Brass, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Metal hook type

Circuits	Model No.		Dimensions (mm)			Q'ty / box
	secure lock type	friction lock type	A	B	C	
20	JDV-PS20LB-10A	—	28.5	43.0	39.7	320
25	JDV-PS25LB-10A	—	36.0	50.5	47.2	280
30	JDV-PS30LB-10A	JDV-PS30FLB-10A	43.5	58.0	54.7	240
35	JDV-PS35LB-10A	JDV-PS35FLB-10A	51.0	65.5	62.2	200
40	JDV-PS40LB-10A	—	58.5	73.0	69.7	160
50	JDV-PS50LB-10A	JDV-PS50FLB-10A	73.5	88.0	84.7	160
65	—	JDV-PS65FLB-10A	96.0	110.5	107.2	120

Material and Finish

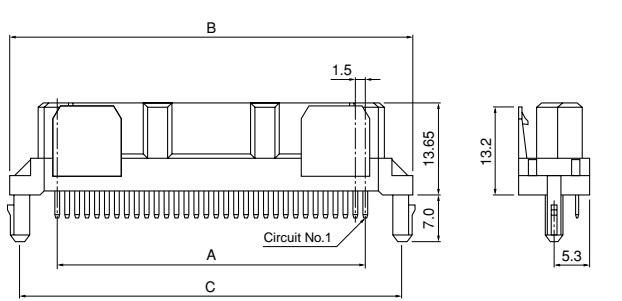
Contact: Brass, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0
Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

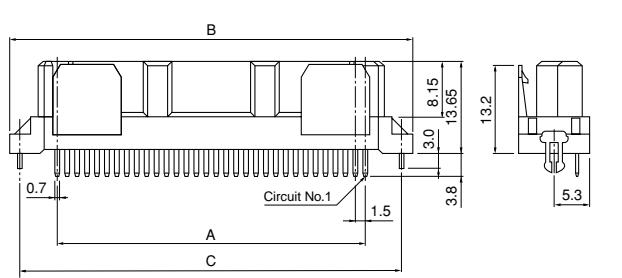
Receptacle

Retention lock type

Resin hook type



Metal hook type



Resin hook type

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
15	JDV-R15LB-10-1	21.0	35.5	32.2	500
20	JDV-R20LB-10-1	28.5	43.0	39.7	400
25	JDV-R25LB-10-1	36.0	50.5	47.2	350
30	JDV-R30LB-10-1	43.5	58.0	54.7	300
35	JDV-R35LB-10-1	51.0	65.5	62.2	250
40	JDV-R40LB-10-1	58.5	73.0	69.7	200
50	JDV-R50LB-10-1	73.5	88.0	84.7	200

Material and Finish

Contact: Phosphor bronze, nickel-undercoated,
Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

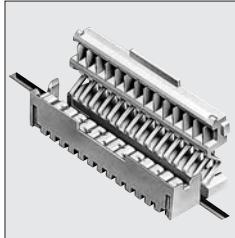
Metal hook type

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
20	JDV-R20LB-10A	28.5	43.0	39.7	400
25	JDV-R25LB-10A	36.0	50.5	47.2	350
30	JDV-R30LB-10A	43.5	58.0	54.7	300
35	JDV-R35LB-10A	51.0	65.5	62.2	250
40	JDV-R40LB-10A	58.5	73.0	69.7	200
50	JDV-R50LB-10A	73.5	88.0	84.7	200
65	JDV-R65LB-10A	96.0	110.5	107.2	150

Material and Finish

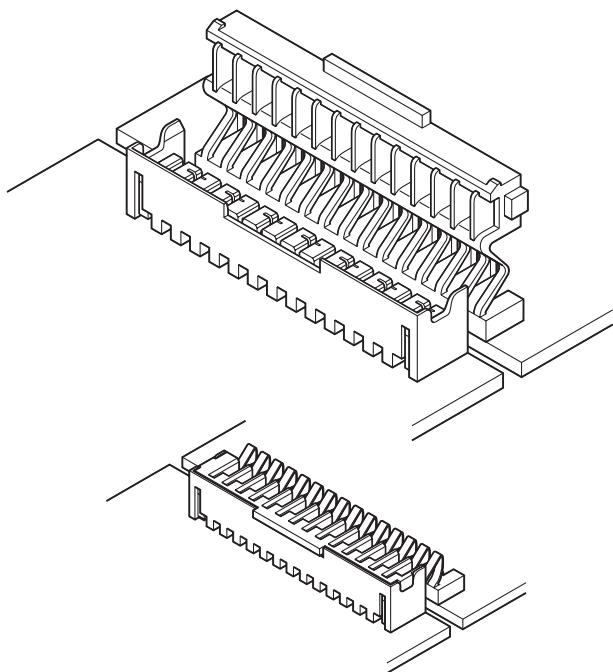
Contact: Phosphor bronze, nickel-undercoated,
Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0
Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



FJ CONNECTOR

2.0mm pitch/Board-to-board connectors



The FJ board-to-board connector absorbs lateral and longitudinal alignment errors thanks to an innovative new design that provides flexible connection between closely spaced circuit boards. Added advantages are simplified and less stringent packaging specifications for board-to-board connections and a higher quality end product.

- Flexible connection absorbs circuit board misalignment
- Provides a low profile mount and allows connection after mounting
- Assures a reliable connection

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

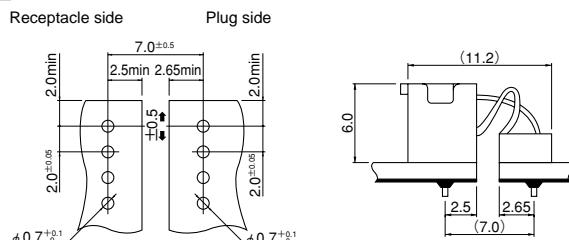
Standards

■ Recognized E60389

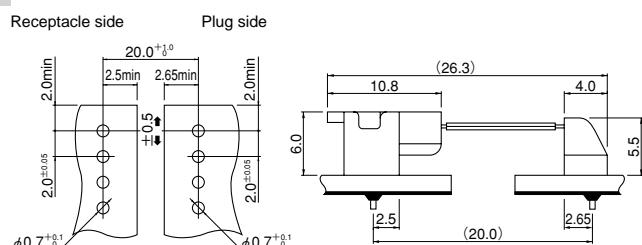
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

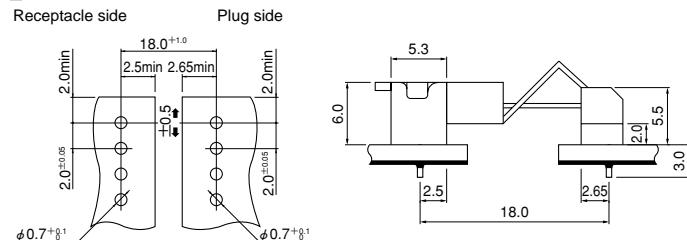
Short type



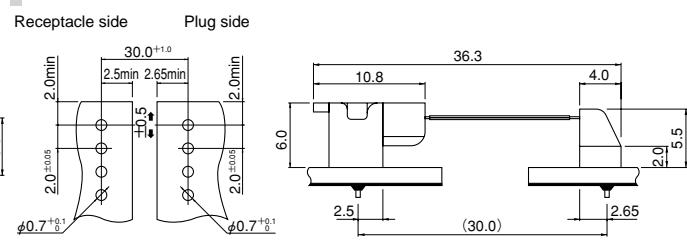
FJ-L type



FJ-V type



FJ-K type



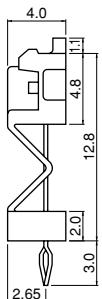
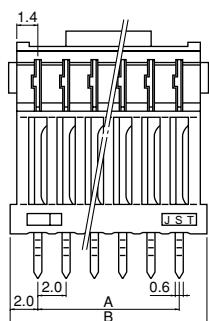
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

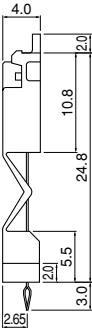
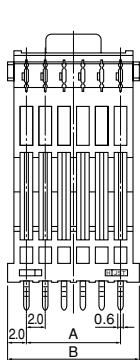
FJ CONNECTOR

Plug

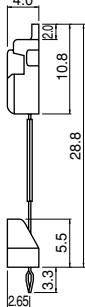
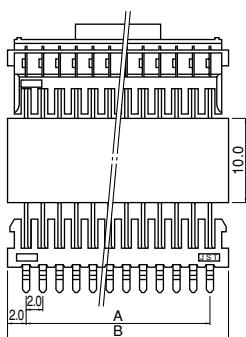
Short type



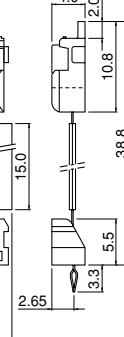
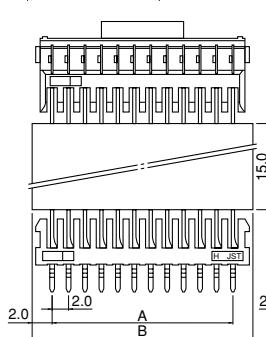
FJ-V type



FJ-L type



FJ-K type



Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	FJ-V type	FJ-L type	FJ-K type	A	B	Short type	FJ-V type	FJ-L type	FJ-K type
4	04P-FJ	—	—	—	6.0	10.0	500	—	—	—
5	—	—	05PL-FJ	05PK-FJ	8.0	12.0	—	—	250	150
6	06P-FJ	—	06PL-FJ	06PK-FJ	10.0	14.0	250	—	200	150
7	07P-FJ	—	07PL-FJ	07PK-FJ	12.0	16.0	250	—	200	100
8	08P-FJ	—	08PL-FJ	08PK-FJ	14.0	18.0	200	—	200	100
9	09P-FJ	—	—	—	16.0	20.0	200	—	—	—
10	10P-FJ	—	10PL-FJ	10PK-FJ	18.0	22.0	200	—	100	100
11	11P-FJ	11PV-FJ	—	—	20.0	24.0	200	168	—	—
12	12P-FJ	—	12PL-FJ	12PK-FJ	22.0	26.0	100	—	100	50
13	—	13PV-FJ	—	—	24.0	28.0	—	168	—	—
14	14P-FJ	—	14PL-FJ	14PK-FJ	26.0	30.0	100	—	100	50
15	—	15PV-FJ	—	—	28.0	32.0	—	168	—	—

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)

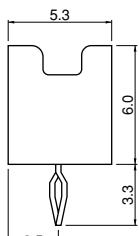
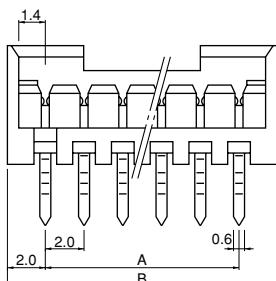
Housing: PA 66, UL94V-0, white

Insulation tape: Acetate, UL510FR (FJ-L type)

Polyester, UL94V-0 (FJ-K type)

RoHS compliance

Receptacle



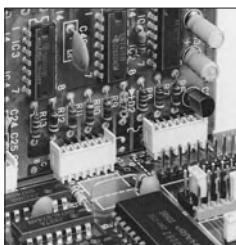
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
4	04R-FJ	6.0	10.0	500
5	05R-FJ	8.0	12.0	500
6	06R-FJ	10.0	14.0	500
7	07R-FJ	12.0	16.0	500
8	08R-FJ	14.0	18.0	250
9	09R-FJ	16.0	20.0	250
10	10R-FJ	18.0	22.0	250
11	11R-FJ	20.0	24.0	250
12	12R-FJ	22.0	26.0	200
13	13R-FJ	24.0	28.0	200
14	14R-FJ	26.0	30.0	200
15	15R-FJ	28.0	32.0	200

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

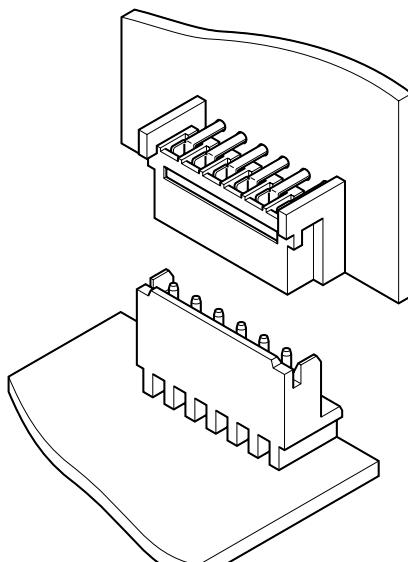
Housing: PA 66, UL94V-0, white

RoHS compliance This product displays (LF)(SN) on a label.



MQ CONNECTOR

2.0mm pitch/Board-to-board connectors



Measuring 2.0mm in pitch, 9.2mm in mounting height and 5.5mm in thickness, this board-to-board connector makes high-density mounting of components in electronic products possible. It is ideal for small electronic products, such as portable VCRs and video cameras, which require high-density mounting and high reliability.

- Back-up support spring construction
- Easy insertion
- Board retention feature

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable PC board thickness: 1.2 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

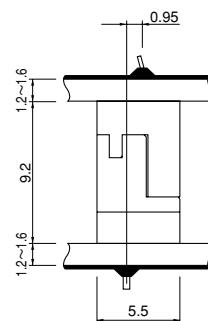
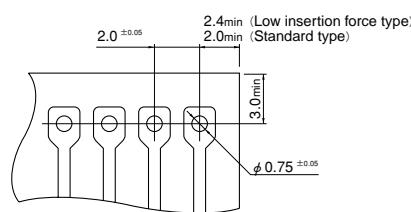
■ Recognized E60389

■ Certified LR20812

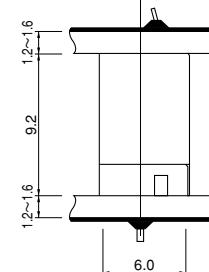
△ R9351042

PC board layout (viewed from soldering side) and Assembly layout

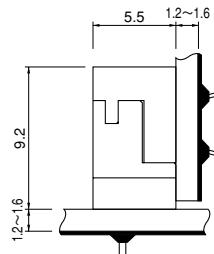
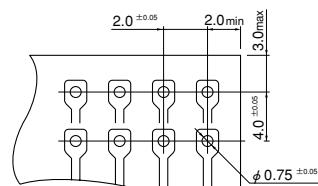
Top entry type



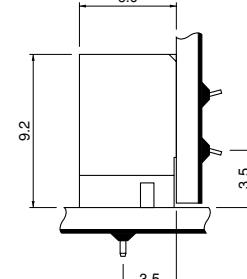
Low insertion force type Top entry type



Side entry type



Low insertion force type Side entry type



Note: 1. The PC board layout of the header is identical to that of the top entry receptacle.

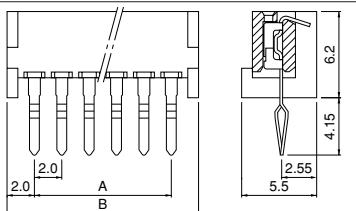
2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

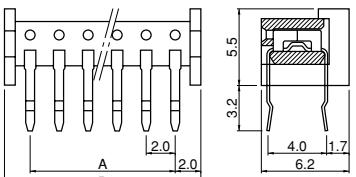
MQ CONNECTOR

Receptacle

Top entry type



Side entry type



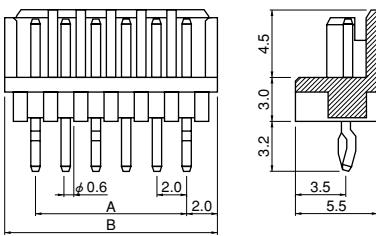
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type	Side entry type	A	B	
5	05MQ-BT	05MQ-ST	8.0	12.0	500 500
6	06MQ-BT	06MQ-ST	10.0	14.0	500 500
7	07MQ-BT	07MQ-ST	12.0	16.0	500 500
8	08MQ-BT	08MQ-ST	14.0	18.0	500 250
9	09MQ-BT	09MQ-ST	16.0	20.0	500 250
10	10MQ-BT	10MQ-ST	18.0	22.0	250 250
12	12MQ-BT	12MQ-ST	22.0	26.0	250 250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

RoHS compliance

Shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty/box
	A	B	Top entry type	Side entry type	
5	B5P-MQ	8.0	12.0		500
6	B6P-MQ	10.0	14.0		500
7	B7P-MQ	12.0	16.0		500
8	B8P-MQ	14.0	18.0		500
9	B9P-MQ	16.0	20.0		500
10	B10P-MQ	18.0	22.0		250
12	B12P-MQ	22.0	26.0		200

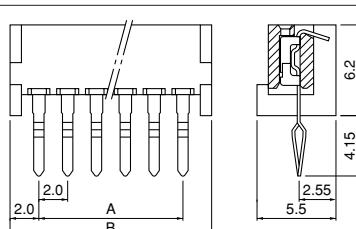
Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural

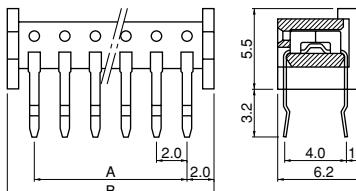
RoHS compliance

Low insertion force type Receptacle

Top entry type



Side entry type



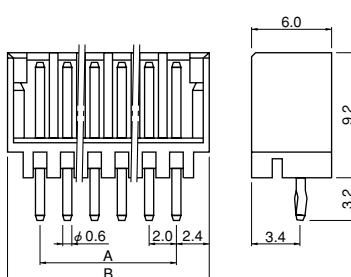
Circuits	Model No.		Dimensions (mm)		Q'ty/box
	Top entry type	Side entry type	A	B	
4	04MQ-BT-L	04MQ-ST-L	6.0	10.0	500 500
5	05MQ-BT-L	05MQ-ST-L	8.0	12.0	500 500
6	06MQ-BT-L	06MQ-ST-L	10.0	14.0	500 500
7	07MQ-BT-L	07MQ-ST-L	12.0	16.0	500 500
8	08MQ-BT-L	08MQ-ST-L	14.0	18.0	500 250
9	09MQ-BT-L	09MQ-ST-L	16.0	20.0	500 250
10	10MQ-BT-L	10MQ-ST-L	18.0	22.0	250 250
12	12MQ-BT-L	12MQ-ST-L	22.0	26.0	250 250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

RoHS compliance

Low insertion force type Shrouded header

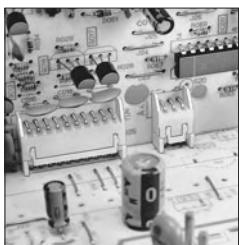


Circuits	Model No.		Dimensions (mm)		Q'ty/box
	A	B	Top entry type	Side entry type	
4	B4P-MQ-C	6.0	10.8		500
5	B5P-MQ-C	8.0	12.8		500
6	B6P-MQ-C	10.0	14.8		500
7	B7P-MQ-C	12.0	16.8		250
8	B8P-MQ-C	14.0	18.8		250
9	B9P-MQ-C	16.0	20.8		250
10	B10P-MQ-C	18.0	22.8		250
12	B12P-MQ-C	22.0	26.8		200

Material and Finish

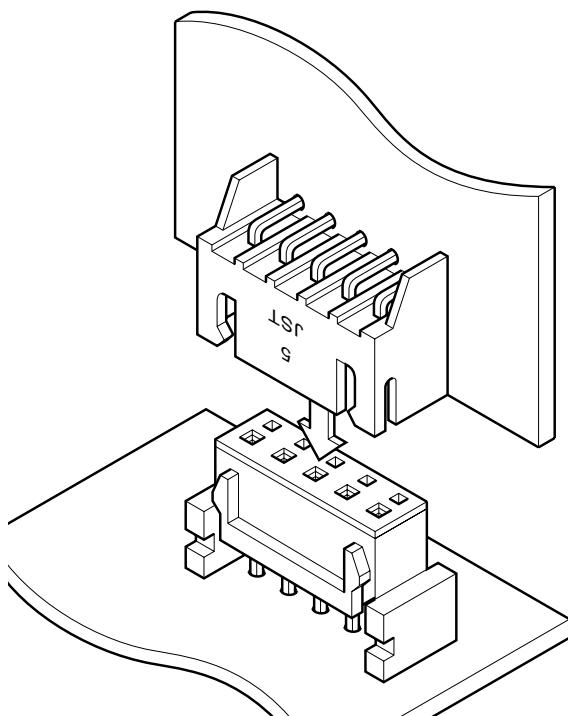
Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0

RoHS compliance



JQ CONNECTOR

2.5mm pitch/Board-to-board connectors

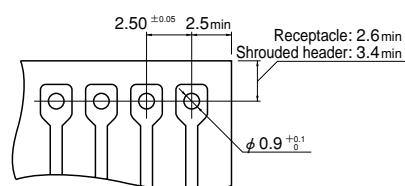


This 2.5mm pitch connector is used to interconnect printed circuit boards. It easily resists distortion during mating, thus ensuring reliable contact, even under adverse conditions.

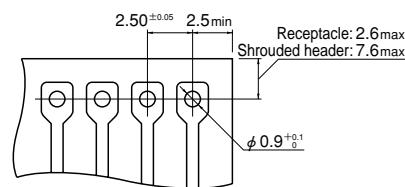
- High contact pressure
- Box-shaped shroud
- Secure locking on printed circuit boards
- Vertical, horizontal and parallel mounting
- Interchangeability

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

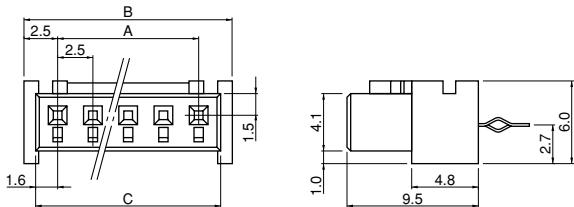
R75085

Combinations	Receptacle	
	Top entry type	Side entry type
Shrouded header	Top entry type B(JBXHA)	
Side entry type S(JBXHA-1)		

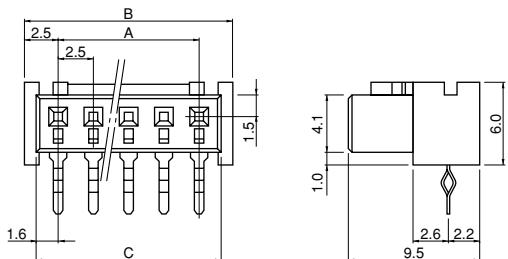
JQ CONNECTOR

Receptacle

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)			Q'ty / box	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
3	03JQ-BT	03JQ-ST	5.0	10.0	8.2	500	500
4	04JQ-BT	04JQ-ST	7.5	12.5	10.7	500	500
5	05JQ-BT	05JQ-ST	10.0	15.0	13.2	500	500
6	06JQ-BT	06JQ-ST	12.5	17.5	15.7	500	500
7	07JQ-BT	07JQ-ST	15.0	20.0	18.2	250	250
8	08JQ-BT	08JQ-ST	17.5	22.5	20.7	200	250
9	09JQ-BT	09JQ-ST	20.0	25.0	23.2	200	250
10	10JQ-BT	10JQ-ST	22.5	27.5	25.7	250	250
11	11JQ-BT	11JQ-ST	25.0	30.0	28.2	250	250
12	12JQ-BT	12JQ-ST	27.5	32.5	30.7	200	200
13	13JQ-BT	13JQ-ST	30.0	35.0	33.2	200	200
15	15JQ-BT	15JQ-ST	35.0	40.0	38.2	100	100

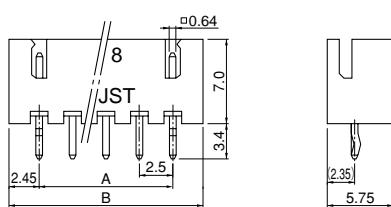
Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

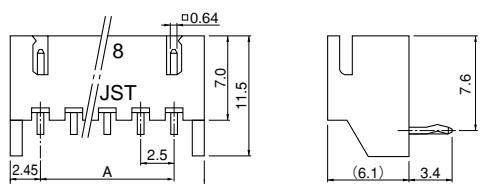
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)			Q'ty / box	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
3	B3B-XH-A	S3B-XH-A-1	5.0	9.9	—	1,000	1,000
4	B4B-XH-A	S4B-XH-A-1	7.5	12.4	—	500	500
5	B5B-XH-A	S5B-XH-A-1	10.0	14.9	—	500	500
6	B6B-XH-A	S6B-XH-A-1	12.5	17.4	—	500	500
7	B7B-XH-A	S7B-XH-A-1	15.0	19.9	—	500	250
8	B8B-XH-A	S8B-XH-A-1	17.5	22.4	—	500	250
9	B9B-XH-A	S9B-XH-A-1	20.0	24.9	—	500	250
10	B10B-XH-A	S10B-XH-A-1	22.5	27.4	—	250	250
11	B11B-XH-A	S11B-XH-A-1	25.0	29.9	—	250	250
12	B12B-XH-A	S12B-XH-A-1	27.5	32.4	—	250	200
13	B13B-XH-A	S13B-XH-A-1	30.0	34.9	—	250	200
14	B14B-XH-A	S14B-XH-A-1	32.5	37.4	—	250	200
15	B15B-XH-A	S15B-XH-A-1	35.0	39.9	—	250	200

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

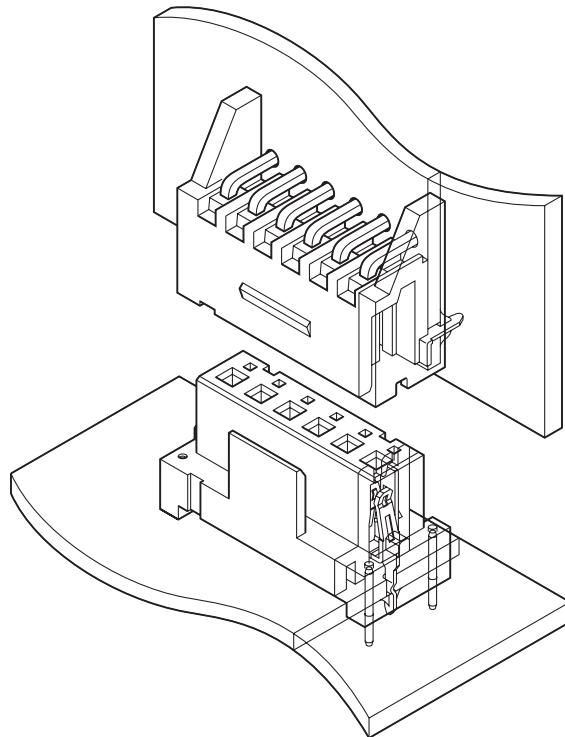
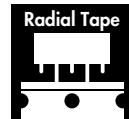
RoHS compliance

This product displays (LF)(SN) on a label.



JL CONNECTOR

2.5mm pitch/Board-to-board connectors



The JL connector is designed for board-to-board connection in electronic equipment requiring high-density mounting and unitization. This connector is highly resistant to equipment vibration and shock.

- **High contact pressure**
- **Housing lock assures good connection even after severe shock & vibration**
- **Reinforcing pins increase PCB mounting durability**
- **Polarized, fully shrouded header aligns the connector halves before their pins make contact**

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

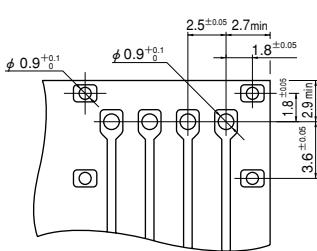
Standards

■ Recognized E60389

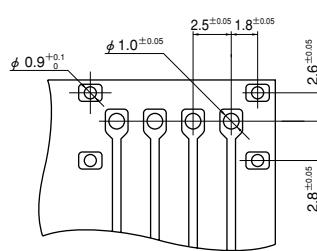
■ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

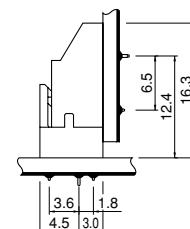
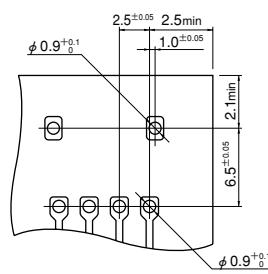
Receptacle



Receptacle on radial-tape



Shrouded header

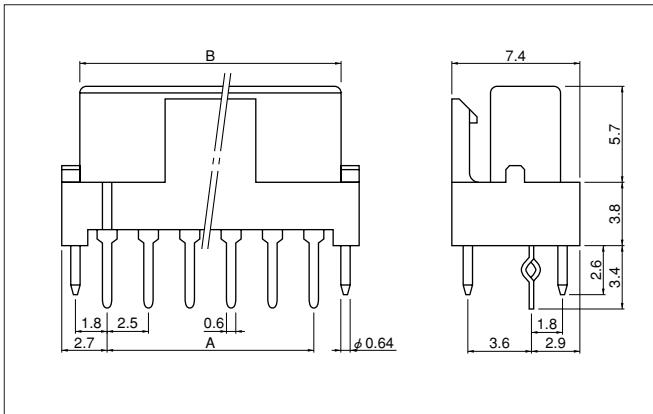


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

JL CONNECTOR

Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
3	03JL-BT-E	5.0	8.2	250
4	04JL-BT-E	7.5	10.7	200
5	05JL-BT-E	10.0	13.2	200
6	06JL-BT-E	12.5	15.7	200
7	07JL-BT-E	15.0	18.2	200
8	08JL-BT-E	17.5	20.7	100
9	09JL-BT-E	20.0	23.2	100
10	10JL-BT-E	22.5	25.7	100
11	11JL-BT-E	25.0	28.2	100
12	12JL-BT-E	27.5	30.7	100
13	13JL-BT-E	30.0	33.2	100
15	15JL-BT-E	35.0	38.2	50

Material and Finish

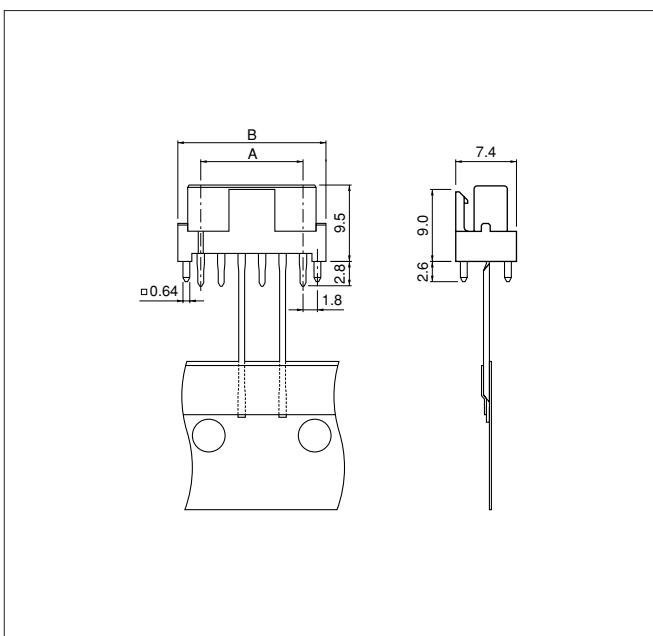
Contact: Phosphor bronze, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, blue

Reinforcing pins: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle on radial-tape



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	05JL-BT-M-T	10.0	15.4	400
6	06JL-BT-M-T	12.5	17.9	400
7	07JL-BT-M-T	15.0	20.4	400
8	08JL-BT-M-T	17.5	22.9	400

Material and Finish

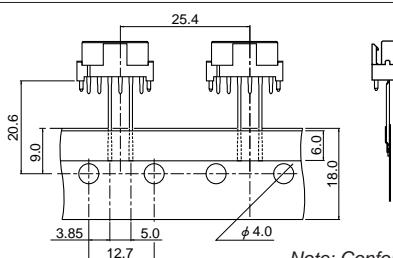
Contact: Phosphor bronze, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0

Reinforcing pins: Brass, copper-undercoated, tin-plated (reflow treatment)

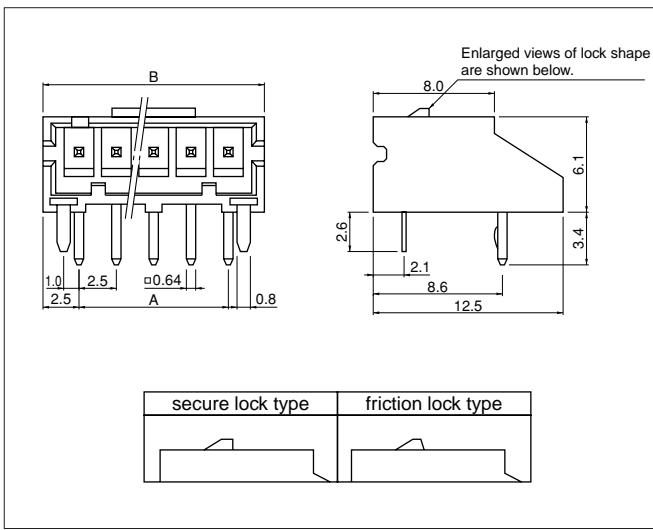
RoHS compliance This product displays (LF)(SN) on a label.

Taping Specifications



Note: Conforms to JIS C 0806.

Shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty/box
	secure lock type	friction lock type	A	B	
3	S3B-JL-R	S3B-JL-F-E	5.0	10.0	250
4	S4B-JL-R	S4B-JL-F-E	7.5	12.5	200
5	S5B-JL-R	S5B-JL-F-E	10.0	15.0	200
6	S6B-JL-R	S6B-JL-F-E	12.5	17.5	200
7	S7B-JL-R	S7B-JL-F-E	15.0	20.0	200
8	S8B-JL-R	S8B-JL-F-E	17.5	22.5	100
9	S9B-JL-R	S9B-JL-F-E	20.0	25.0	100
10	S10B-JL-R	S10B-JL-F-E	22.5	27.5	100
11	S11B-JL-R	S11B-JL-F-E	25.0	30.0	100
12	S12B-JL-R	S12B-JL-F-E	27.5	32.5	100
13	S13B-JL-R	S13B-JL-F-E	30.0	35.0	100
15	S15B-JL-R	S15B-JL-F-E	35.0	40.0	100

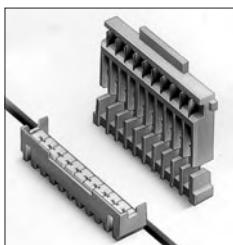
Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA 66, UL94V-0, red (secure lock type), blue (friction lock type)

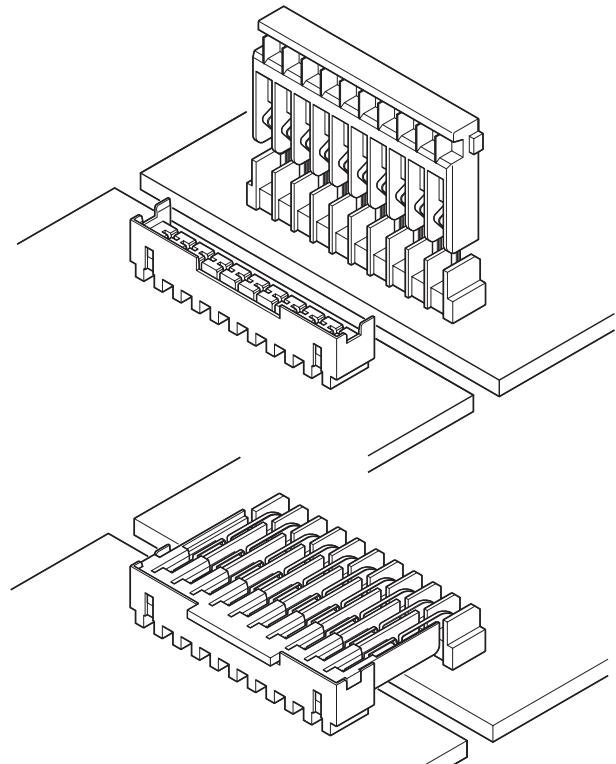
Reinforcing pins: Brass, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



2.5FJ CONNECTOR

2.5mm pitch/Board-to-board connectors

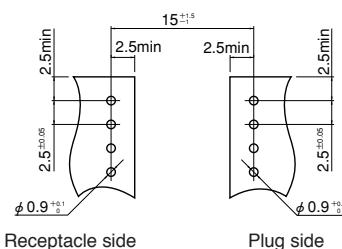


The 2.5FJ connector is a 2.5mm pitch board-to-board connector. The connector halves can be mated after the installation of the printed circuit boards in their enclosure.

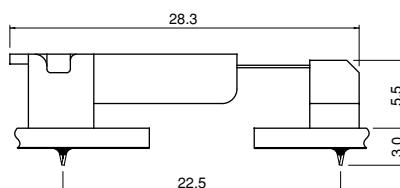
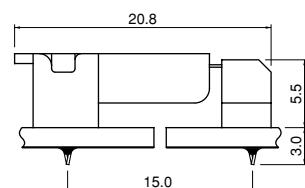
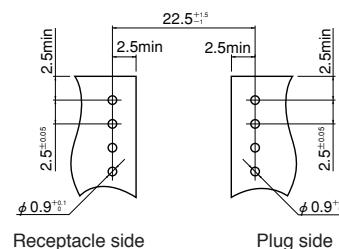
- **Flexible connection absorbs circuit board misalignment**
- **Provides a low profile mount and allows connection after mounting**
- **Assures a reliable connection**

PC board layout (viewed from component side) and Assembly layout

Short type



Long type



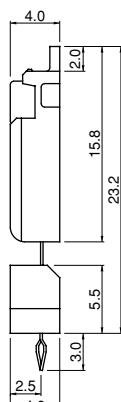
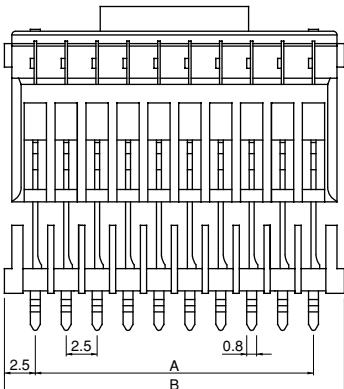
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

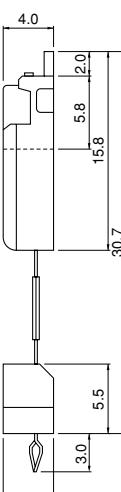
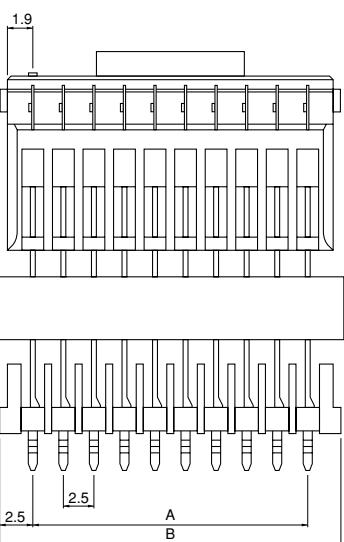
2.5FJ CONNECTOR

Plug

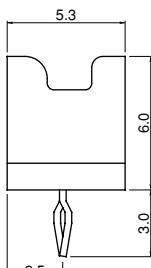
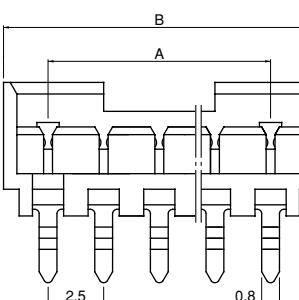
Short type



Long type



Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type	Long type	A	B	Short type	Long type
5	05TM-2.5FJ	—	10.0	15.0	200	—
10	10TM-2.5FJ	10PN-2.5FJ	22.5	27.5	100	100

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0,
Short type —white (natural)
Long type —white (natural)

RoHS compliance

Note: 10PN-2.5FJ is not UL/CSA approved.

Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	05R-2.5FJ	10.0	15.0	200
10	10R-2.5FJ	22.5	27.5	200

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

1

-D

Card Edge Connectors

- TABLE OF COUNTRIES

TABLE OF CONTENTS



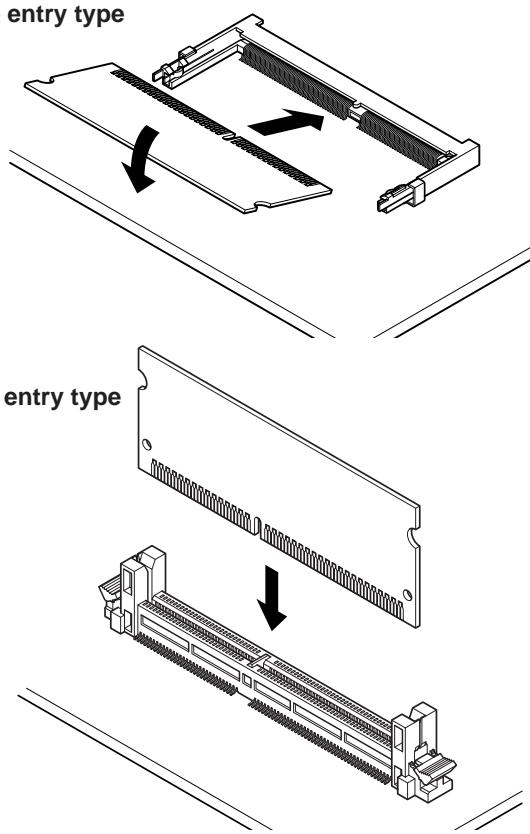
Society for the Study of the Teaching Profession
Societas pro studiis pedagogicis



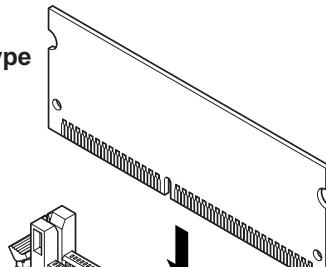
DM-144P CONNECTOR

0.8mm pitch/Socket for S.O.DIMM

Side entry type



Top entry type

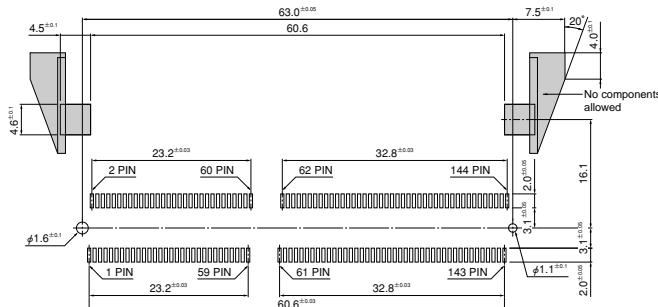


Sockets for the 8Byte S.O.DIMM which is standardized by the JEDEC.

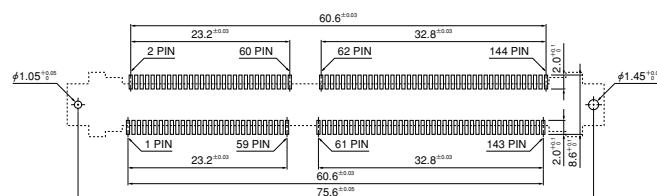
- Extremely small space for mounting on the board

PC board layout (viewed from component side)

Side entry type



Top entry type



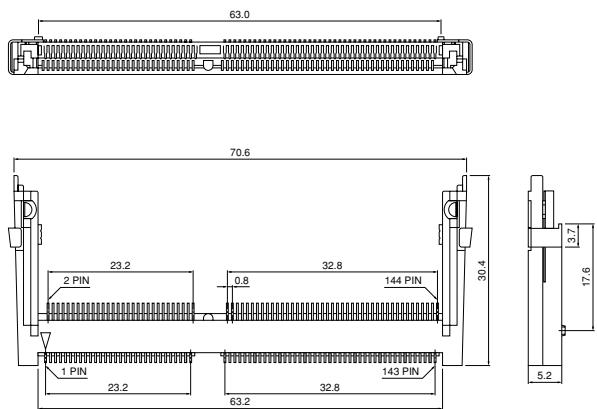
Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

DM-144P CONNECTOR

Connector

Side entry type



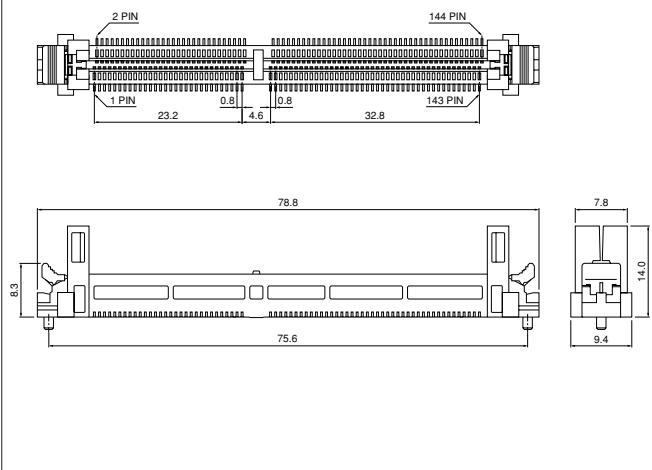
Model No.	Q'ty / box
DM-3B1-N1210	320

Material and Finish

Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail: tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Top entry type



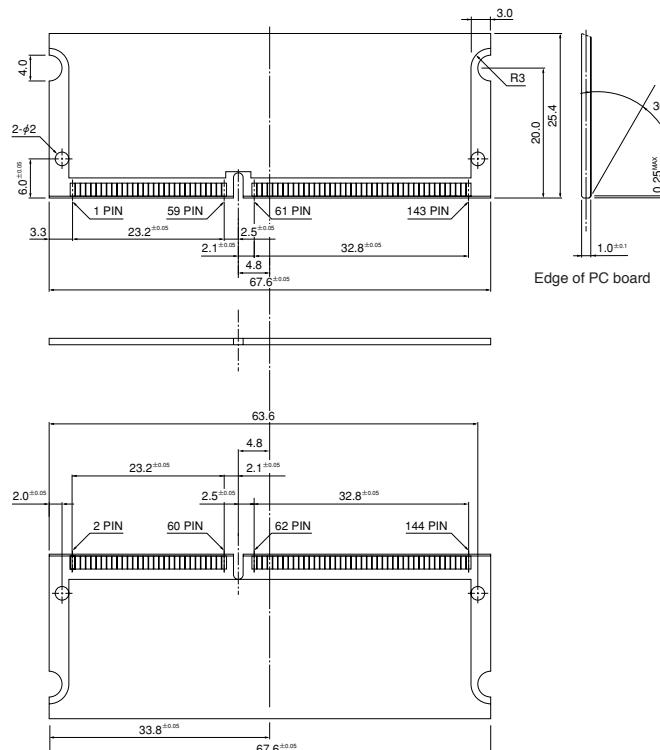
Model No.	Q'ty / box
DM-3D4-B3200	224

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Ejector: Heat resisting resin, UL94V-0

RoHS compliance

Applicable PC board layout (for reference)



1 - E

FFC/FPC Connectors

TABLE OF CONTENTS

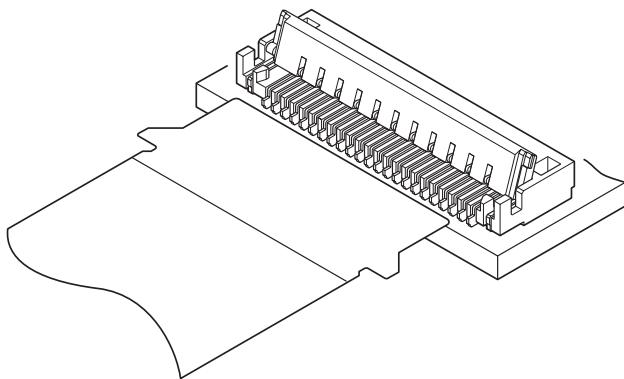


FVW CONNECTOR

0.2mm pitch/Connectors for FPC

Emboss Tape

ZIF
TYPE



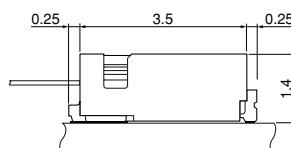
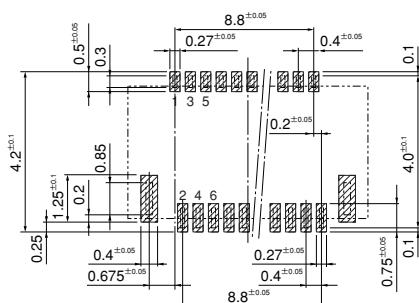
In addition to achieving space saving and low profile features demanded by the market, this connector also realizes smaller pitch (0.2mm pitch) up to an extreme situation and adopts double-sided FPC.

- Adoption of ZIF structure
- Self-lock mechanism enables the cover to close by one-touch operation
- Double-sided FPC
- FPC with protrusions

Specifications

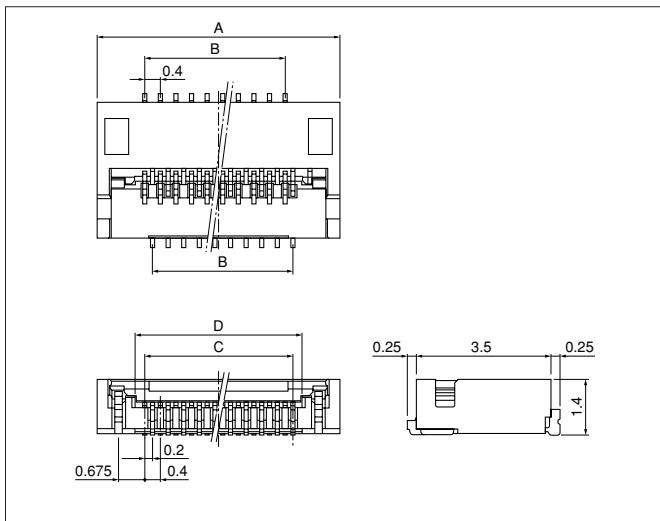
- Current rating: 0.3A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- * RoHS compliant products are published.
- * Contact JST for thickness of applicable Double-sided FPC.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
46	46FVW-SM1-GAN-TF	11.45	8.8	9.0	9.5	2,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

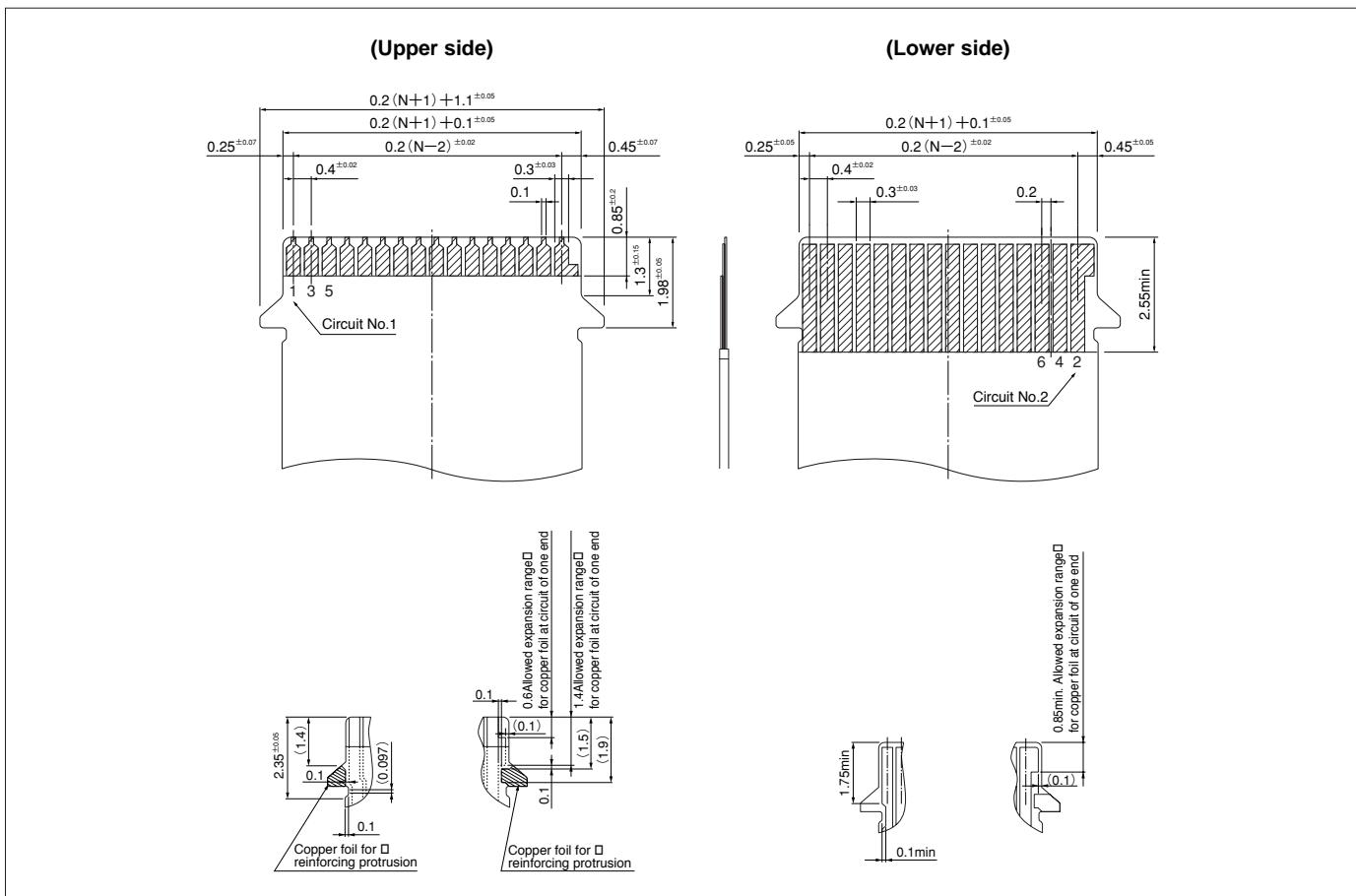
Housing: LCP, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover: PPS, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



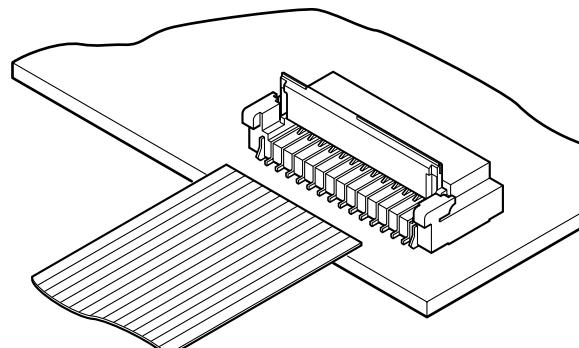
Note: N --- Number of circuits



NON-ZIF TYPE

FX CONNECTOR

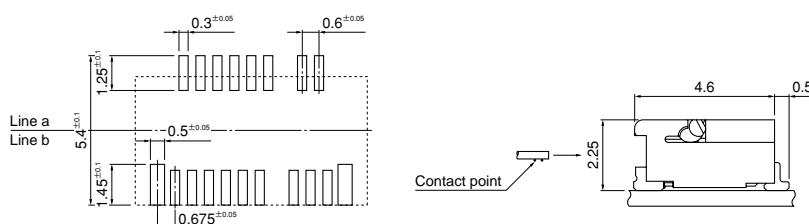
0.3mm pitch/Connectors for FPC



Non-ZIF type connector for FPC's, with only 2.25mm height when mounted on the PC board. Temporary retention mechanism and flip-lock device provide good operational efficiency.

- Good for high density mounting
- Heat resisting design suitable for surface mounting
- Easy mounting operation
- Embossed taping for automatic mounting

PC board layout (viewed from component side) and Assembly layout

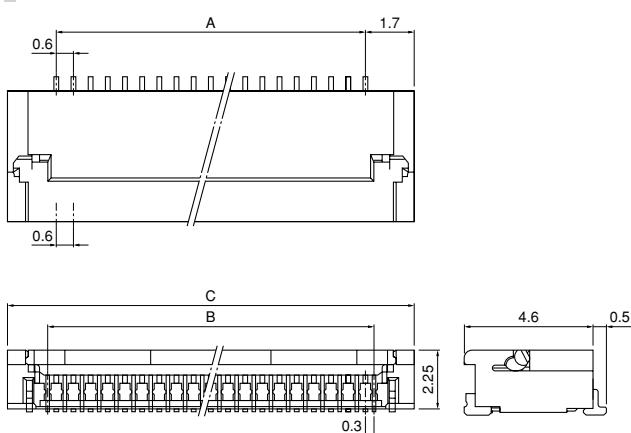


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Reverse type



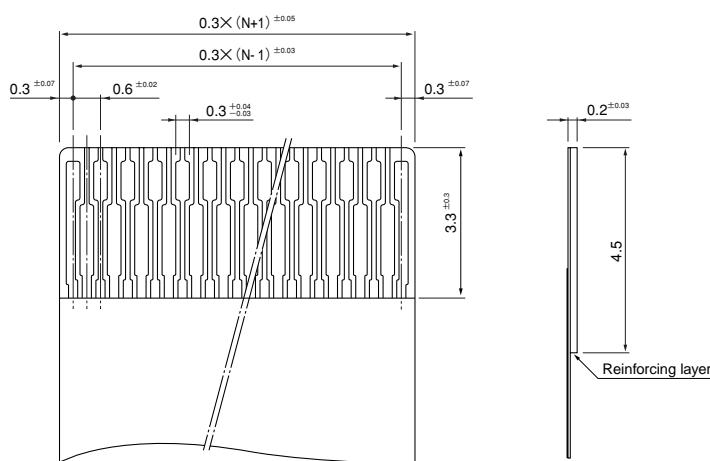
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	15FX-RSM1-S-TB	3.6	4.2	7.0	3,000
21	21FX-RSM1-S-TB	5.4	6.0	8.8	3,000
23	23FX-RSM1-S-TB	6.0	6.6	9.4	3,000
25	25FX-RSM1-S-TB	6.6	7.2	10.0	3,000
27	27FX-RSM1-S-TB	7.2	7.8	10.6	3,000
33	33FX-RSM1-S-TB	9.0	9.6	12.4	3,000
39	39FX-RSM1-S-TB	10.8	11.4	14.2	3,000
45	45FX-RSM1-S-TB(12)	12.6	13.2	16.0	2,500
51	51FX-RSM1-S-TB	14.4	15.0	17.8	3,000
57	57FX-RSM1-S-TB	16.2	16.8	19.6	3,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: LCP, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat-resisting polyamide, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: Contact JST for gold-plated products.

Lead section dimensions of FPC



Note: N---Number of circuits



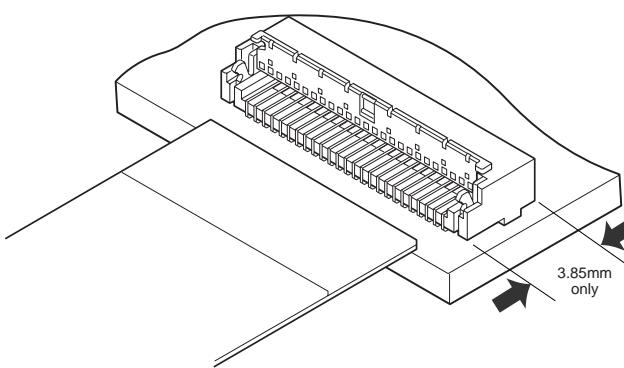
FXS CONNECTOR

0.3mm pitch/Connectors for FPC

Emboss Tape



ZIF
TYPE



Space saving flip lock type connector, with 1.8mm height and 3.85mm depth.

- Space saving design
- Rotating cover structure
- Locking structure

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

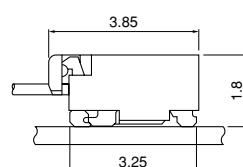
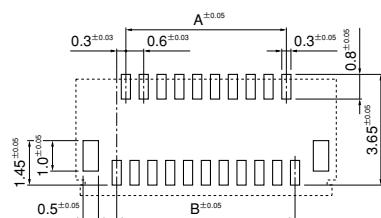
* Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

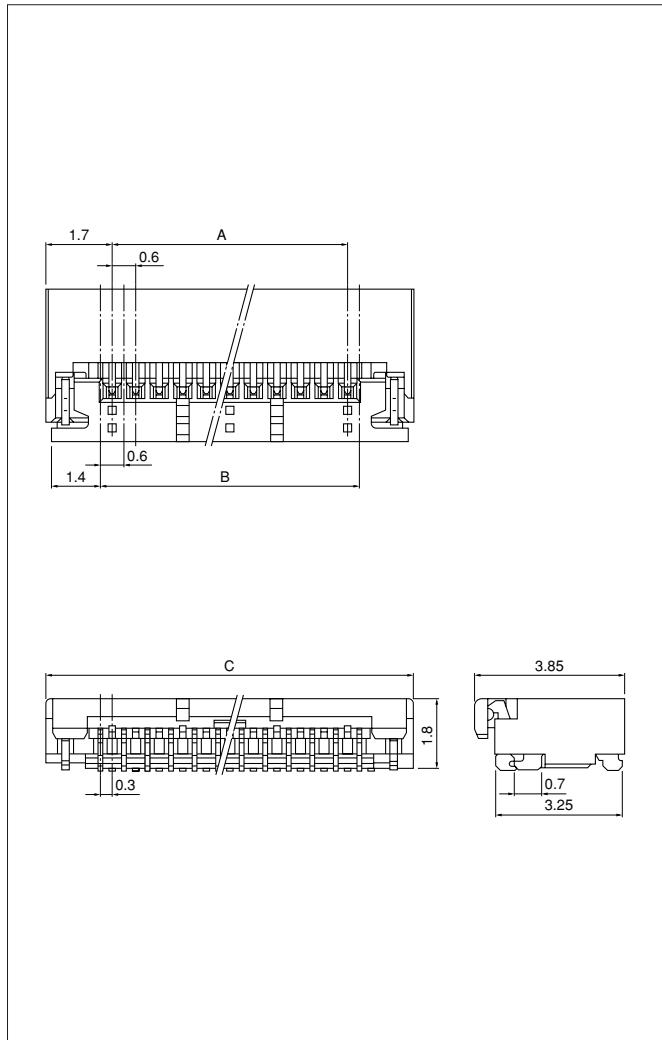


Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

FXS CONNECTOR

Connector



Gold-plated

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	15FXS-RSM1-G-TF (B)	3.6	4.2	7.0	2,500
19	19FXS-RSM1-G-TF (B)	4.8	5.4	8.2	2,500
21	21FXS-RSM1-G-TF (B)	5.4	6.0	8.8	2,500
25	25FXS-RSM1-G-TF (B)	6.6	7.2	10.0	2,500
33	33FXS-RSM1-G-TF (B)	9.0	9.6	12.4	2,500
45	45FXS-RSM1-G-TF (B)	12.6	13.2	16.0	2,500
51	51FXS-RSM1-G-TF (B)	14.4	15.0	17.8	2,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover: Heat resisting resin, UL94V-0

Reinforcing pin: KOVAR

Rotary pin: KOVAR

RoHS compliance This product displays (LF)(SN) on a label.

Tin-plated

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	15FXS-RSM1-TF (B)	3.6	4.2	7.0	2,500
19	19FXS-RSM1-TF (B)	4.8	5.4	8.2	2,500
21	21FXS-RSM1-TF (B)	5.4	6.0	8.8	2,500
25	25FXS-RSM1-TF (B)	6.6	7.2	10.0	2,500
33	33FXS-RSM1-TF (B)	9.0	9.6	12.4	2,500
45	45FXS-RSM1-TF (B)	12.6	13.2	16.0	2,500
51	51FXS-RSM1-TF (B)	14.4	15.0	17.8	2,500

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

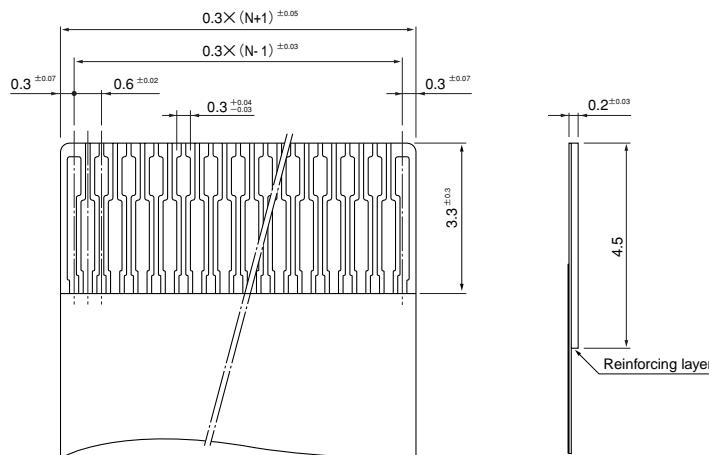
Cover: Heat resisting resin, UL94V-0

Reinforcing pin: KOVAR

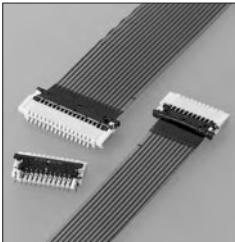
Rotary pin: KOVAR

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N---Number of circuits

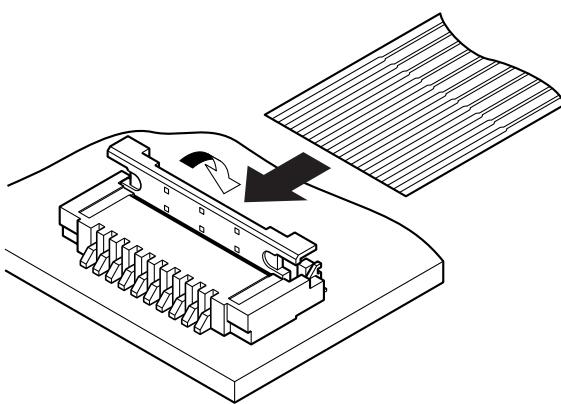


FXL CONNECTOR

0.3mm pitch/Connectors for FPC



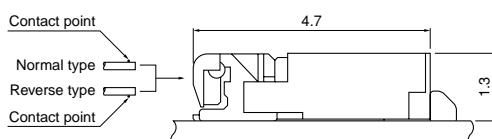
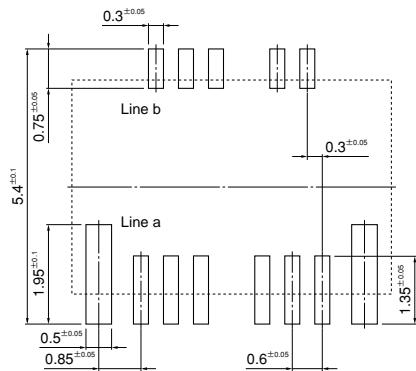
NON-ZIF TYPE



0.3mm pitch non-ZIF flip lock type connector with 1.3mm low profile.

- **1.3mm height, low profile**
- **Optimum heat resistant material for surface mount**

PC board layout (viewed from component side) and Assembly layout

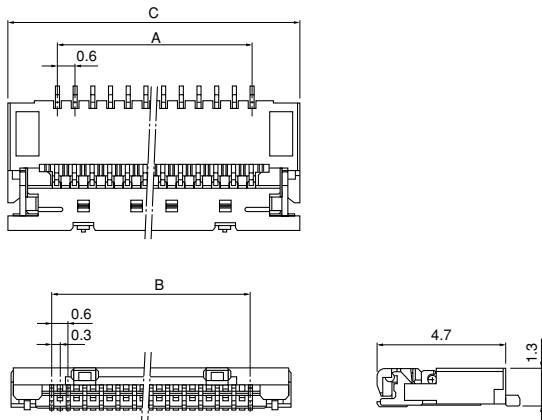


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FXL CONNECTOR

Connector

Normal type



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
19	19FXL-SM1-S-H-TB	4.8	5.4	8.2	3,000
33	33FXL-SM1-S-H-TB	9.0	9.6	12.4	3,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: LCP, UL94V-0

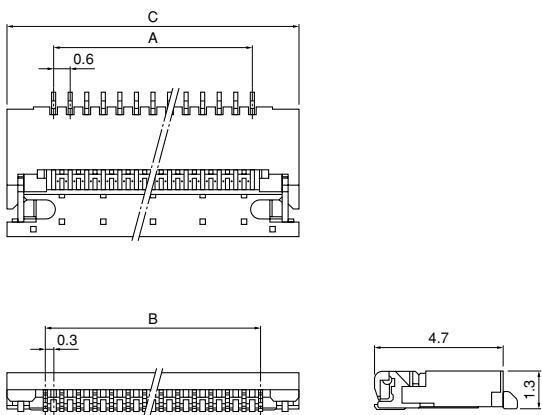
Cover housing: LCP, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Frame pin: SUS

RoHS compliance This product displays (LF)(SN) on a label.

Reverse type



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
11	11FXL-RSM1-S-H-TB	2.4	3.0	5.8	3,000
15	15FXL-RSM1-S-H-TB	3.6	4.2	7.0	3,000
17	17FXL-RSM1-S-H-TB	4.2	4.8	7.6	3,000
19	19FXL-RSM1-S-H-TB	4.8	5.4	8.2	3,000
21	21FXL-RSM1-S-H-TB	5.4	6.0	8.8	3,000
23	23FXL-RSM1-S-H-TB	6.0	6.6	9.4	3,000
25	25FXL-RSM1-S-H-TB	6.6	7.2	10.0	3,000
27	27FXL-RSM1-S-H-TB	7.2	7.8	10.6	3,000
29	29FXL-RSM1-S-H-TB	7.8	8.4	11.2	3,000
31	31FXL-RSM1-S-H-TB	8.4	9.0	11.8	3,000
33	33FXL-RSM1-S-H-TB	9.0	9.6	12.4	3,000
39	39FXL-RSM1-S-H-TB	10.8	11.4	14.2	3,000
51	51FXL-RSM1-S-H-G-TB	14.4	15.0	17.8	3,000
57	57FXL-RSM1-S-H-G-TB	16.2	16.8	19.6	3,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Copper alloy, nickel-undercoated, gold-plated (51, 57 circuits)

Housing: LCP, UL94V-0

Cover housing: LCP, UL94V-0

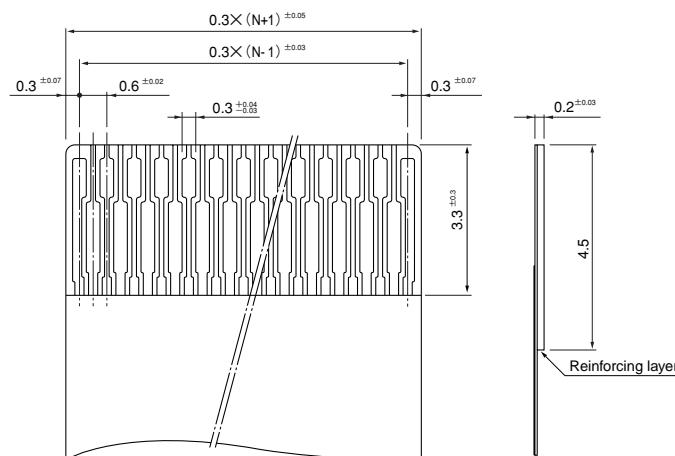
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Reinforcement pin: KOVAR or SUS

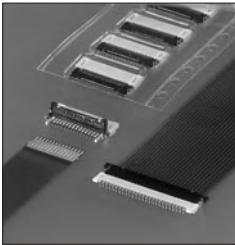
Rotary pin: KOVAR or SUS

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N--Number of circuits

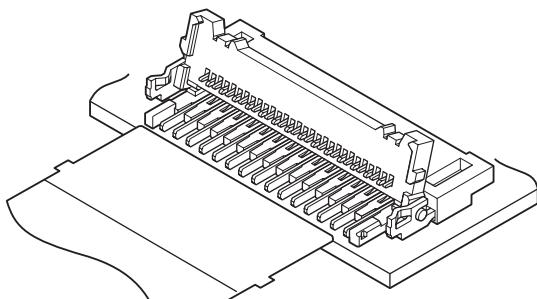


FXW CONNECTOR

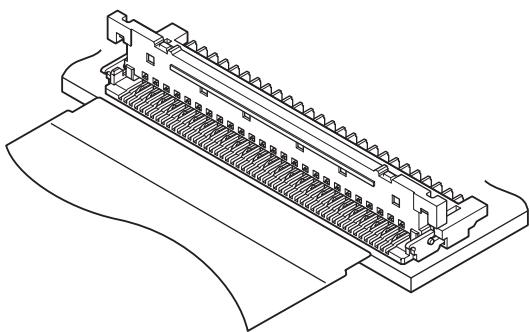
0.3mm pitch/Connectors for FPC



ZIF
TYPE



Normal type



Reverse type

This low-profile FPC connector with a mounting height of 1.0mm has a Double ZIF Flip-lock slider structure.

- Low-profile (1.0mm height) & adoption of Double ZIF structure
 - One-touch sliding operation of Molded Cover
 - Heat resisting design suitable for surface mounting
 - FPC with protrusions for normal type

Specifications

- Current rating: 0.2A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/60m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
 - Withstanding voltage: 200V AC/minute
 - Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.12^{+0.03}_{-0.02}mm

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

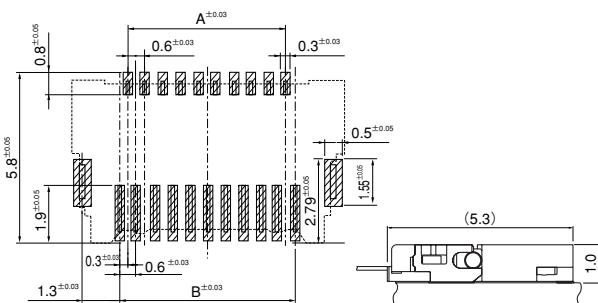
* Contact IST for details.

Standards -

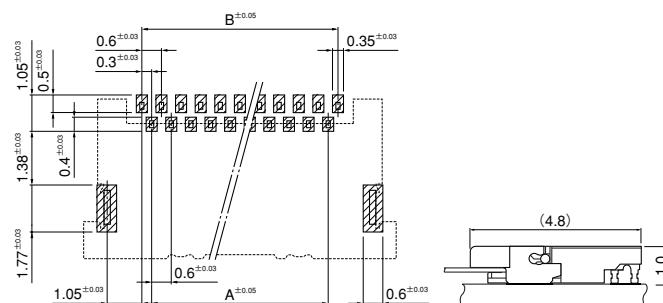
 Recognized E60389

PC board layout (viewed from component side) and Assembly layout

Normal type



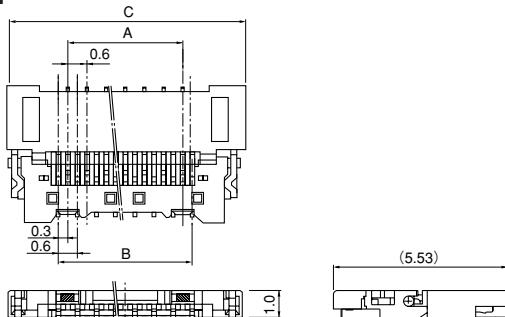
Reverse type



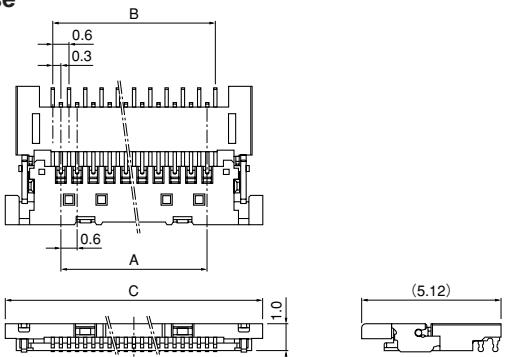
*Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.*

Connector

Normal type



Reverse type



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
25	25FXW-SM1-G-S-TB	6.6	7.2	10.4	5,000
29	29FXW-SM1-G-S-TB	7.8	8.4	11.6	5,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
17	17FXW-RSM1-G-S-TB	4.2	4.8	8.3	4,500
27	27FXW-RSM1-G-S-TB	7.2	7.8	11.3	4,500
31	31FXW-RSM1-G-S-TB	8.4	9.0	12.5	4,500
35	35FXW-RSM1-G-S-TB	9.6	10.2	13.7	4,500
41	41FXW-RSM1-G-S-TB	11.4	12.0	15.5	4,500
51	51FXW-RSM1-G-S-TB	14.4	15.0	18.5	4,500
59	59FXW-RSM1-G-S-TB	16.8	17.4	20.9	4,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

Housing: Heat resisting resin, UL94V-0

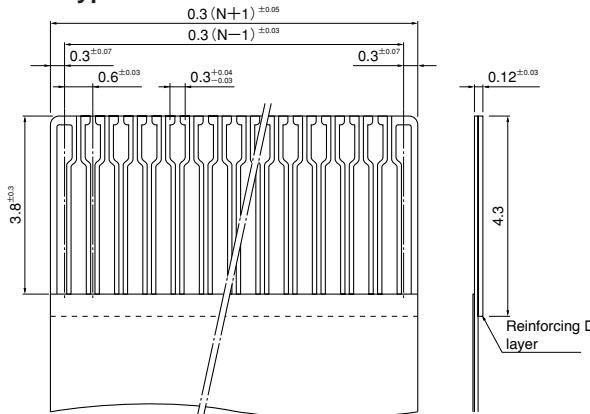
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover: Heat resisting resin, UL94V-0

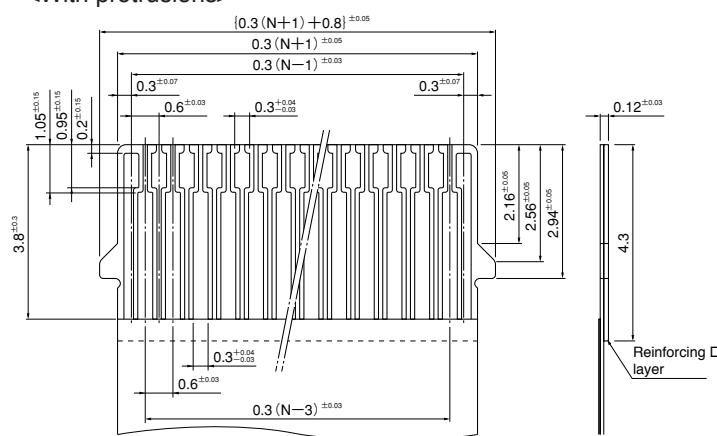
RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC

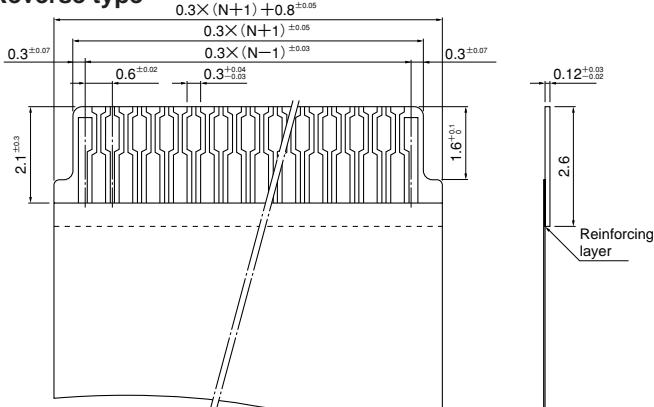
Normal type



<With protrusions>



Reverse type



Note: N--Number of circuits

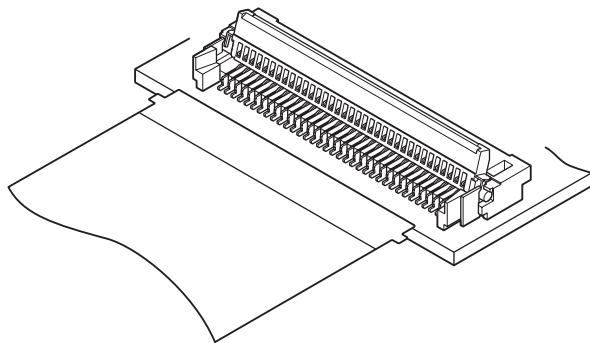


FXM CONNECTOR

0.3mm pitch/Connectors for FPC



ZIF
TYPE



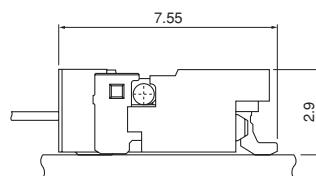
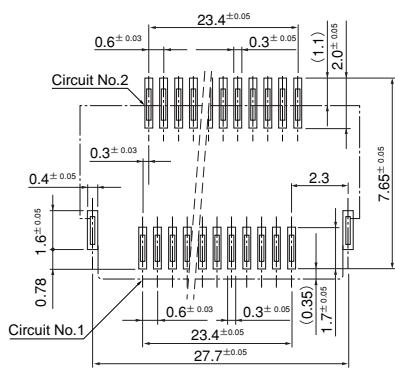
A substantial size for the 0.3mm pitch connector ensures easy handling. Moreover, since this connector accepts a FPC with protrusion providing secure as well as foolproof mating at the customers production line.

- Double ZIF structure
- Self-lock mechanism enables the cover to close by one-touch operation
- A FPC with protrusion improves operability and reliability

Specifications

- Current rating: 0.2A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/80m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
 - Insulation resistance: 50M Ω min.
 - Withstanding voltage: 200V AC/minute
 - Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.3±0.05mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

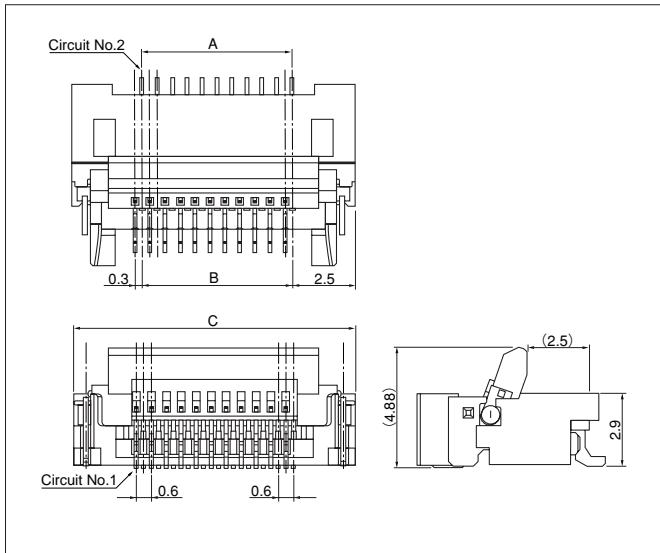


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

FXM CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
80	80FXM-RSM1-G-1-TB	23.4	23.4	28.7	1,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

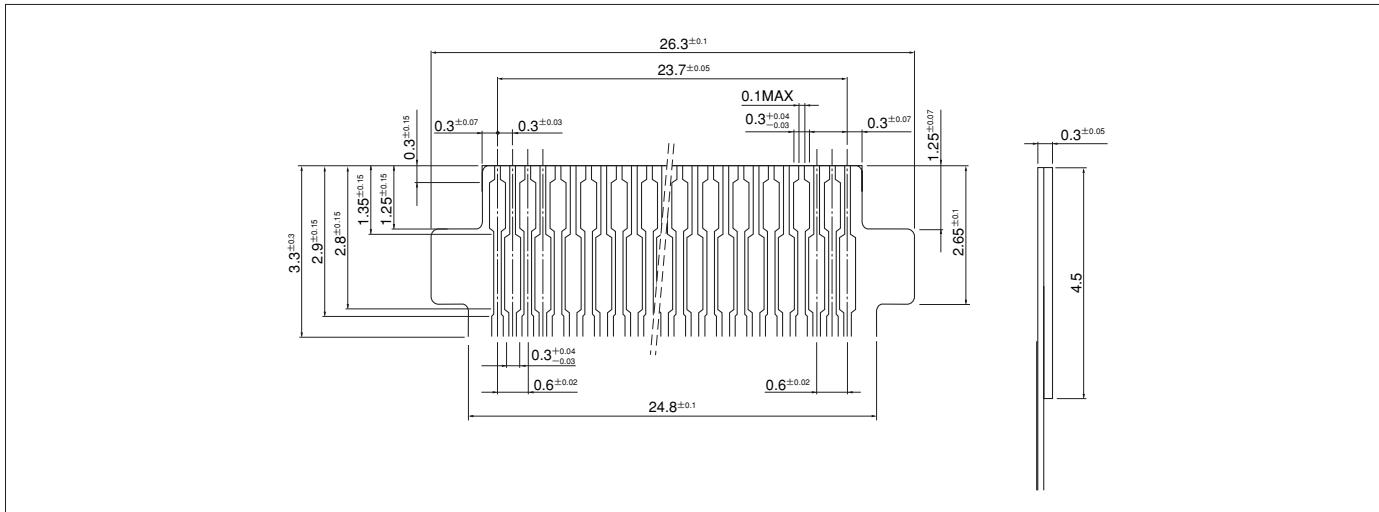
Cover: PPS, UL94V-0

Housing: LCP, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



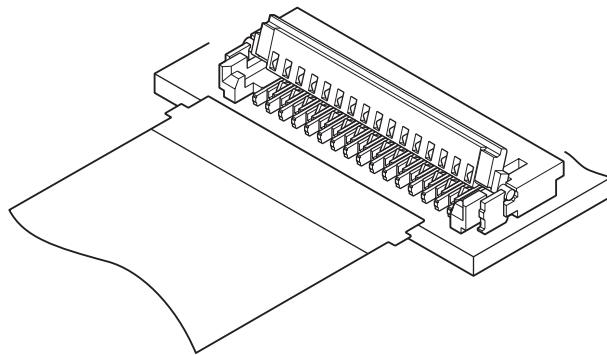


FXY CONNECTOR

0.3mm pitch/Connectors for FPC

Emboss Tape

ZIF
TYPE



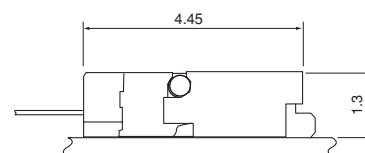
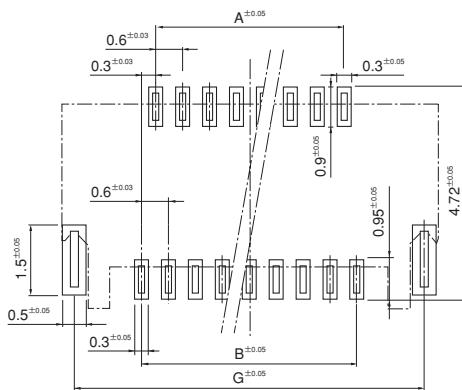
In addition to achieving space saving and low profile features demanded by the market, this connector also realizes superb operability by adopting a FPC with protrusion. The use of the FPC provides secure and foolproof mating at the customers' production site.

- **ZIF mechanism**
- **Self-lock mechanism enables the cover to close by one-touch operation**
- **A FPC with protrusion improves operability and reliability**

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

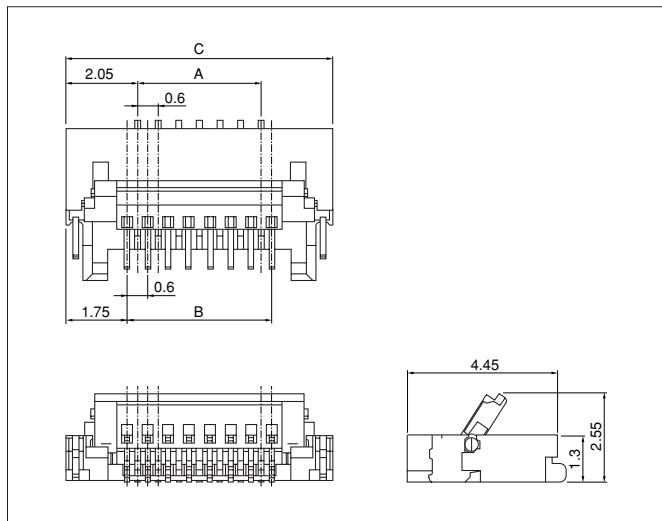


Circuits	Dimensions (mm)		
	A	B	G
19	4.8	5.4	8.4
25	6.6	7.2	10.2
27	7.2	7.8	10.8
31	8.4	9.0	12.0
33	9.0	9.6	12.6
37	10.2	10.8	13.8
45	12.6	13.2	16.2
51	14.4	15.0	18.0

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	15FXY-RSM1-GAN-1-TB	3.6	4.2	7.7	2,500
19	19FXY-RSM1-GAN-1-TB	4.8	5.4	8.9	2,500
25	25FXY-RSM1-GAN-1-TB	6.6	7.2	10.7	2,500
27	27FXY-RSM1-GAN-1-TB	7.2	7.8	11.3	2,500
31	31FXY-RSM1-GAN-1-TB	8.4	9.0	12.5	2,500
33	33FXY-RSM1-GAN-1-TB	9.0	9.6	13.1	2,500
37	37FXY-RSM1-GAN-1-TB	10.2	10.8	14.3	2,500
39	39FXY-RSM1-GAN-1-TB	10.8	11.4	14.9	2,500
45	45FXY-RSM1-GAN-1-TB	12.6	13.2	16.7	2,500
51	51FXY-RSM1-GAN-1-TB	14.4	15.0	18.5	2,500

Material and Finish

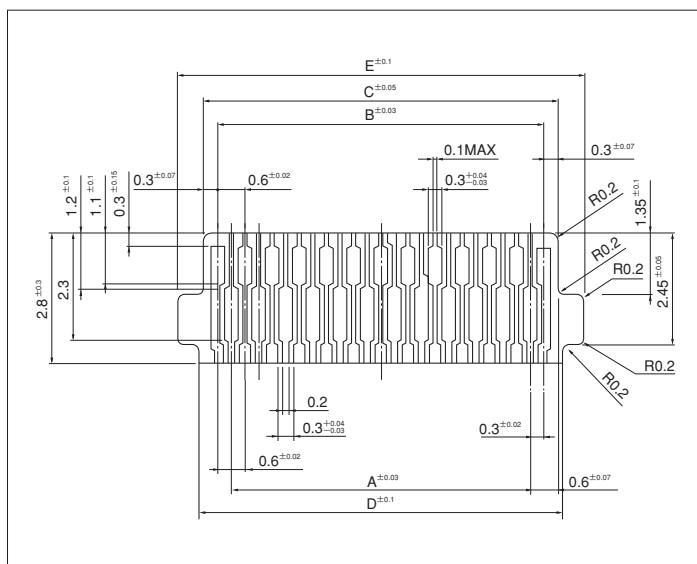
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Cover: PPS, UL94V-0

Housing: LCP, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Circuits	Dimensions (mm)				
	A	B	C	D	E
19	4.8	5.4	6.0	6.3	7.2
25	6.6	7.2	7.8	8.1	9.0
27	7.2	7.8	8.4	8.7	9.6
31	8.4	9.0	9.6	9.9	10.8
33	9.0	9.6	10.2	10.5	11.4
37	10.2	10.8	11.4	11.7	12.6
45	12.6	13.2	13.8	14.1	15.0
51	14.4	15.0	15.6	15.9	16.8

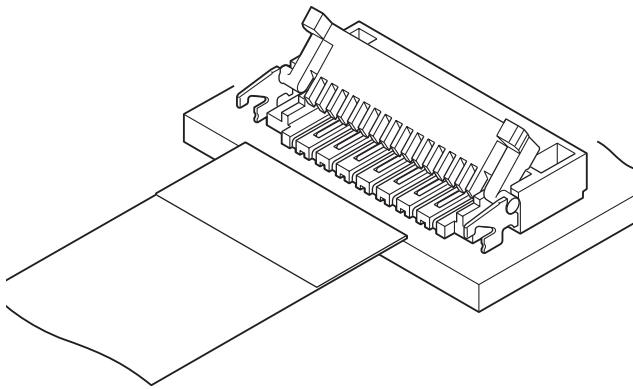


FXR CONNECTOR

0.3mm pitch/Connectors for FPC



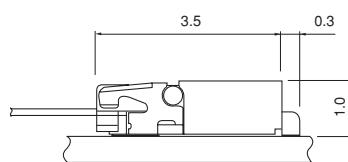
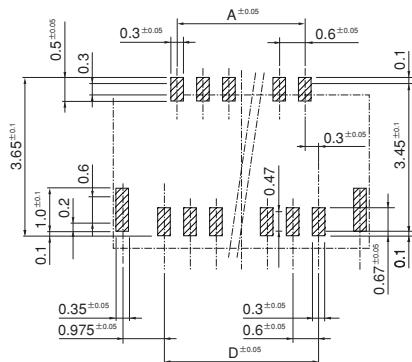
**ZIF
TYPE**



This FXR connector is a ZIF type connector for FPC with only 1.0mm height.

- Low profile and ZIF mechanism
- Space saving design
- Heat resisting design suitable for surface mounting

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Specifications

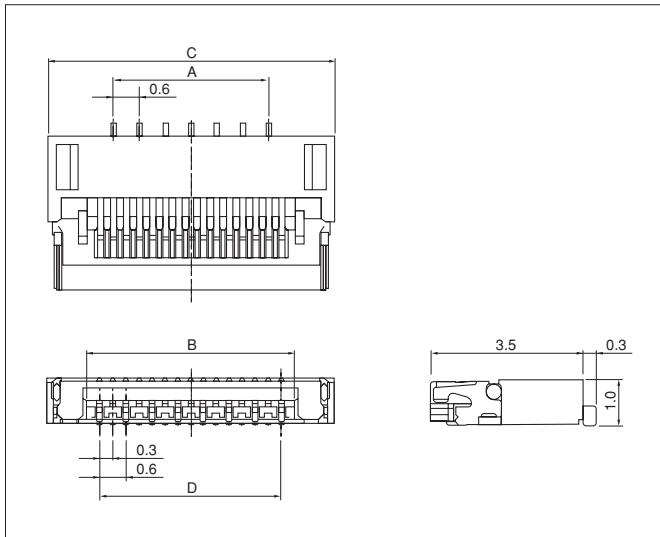
- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

FXR CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
11	11FXR-RSM1-GAN-TB	2.4	3.6	5.4	3.0	5,000
13	13FXR-RSM1-GAN-TB	3.0	4.2	6.0	3.6	5,000
15	15FXR-RSM1-GAN-TB	3.6	4.8	6.6	4.2	5,000
17	17FXR-RSM1-GAN-TB	4.2	5.4	7.2	4.8	5,000
19	19FXR-RSM1-GAN-TB	4.8	6.0	7.8	5.4	5,000
21	21FXR-RSM1-GAN-TB	5.4	6.6	8.4	6.0	5,000
23	23FXR-RSM1-GAN-TB	6.0	7.2	9.0	6.6	5,000
25	25FXR-RSM1-GAN-TB	6.6	7.8	9.6	7.2	5,000
27	27FXR-RSM1-GAN-TB	7.2	8.4	10.2	7.8	5,000
29	29FXR-RSM1-GAN-TB	7.8	9.0	10.8	8.4	5,000
31	31FXR-RSM1-GAN-TB	8.4	9.6	11.4	9.0	5,000
33	33FXR-RSM1-GAN-TB	9.0	10.2	12.0	9.6	5,000
35	35FXR-RSM1-GAN-TB	9.6	10.8	12.6	10.2	5,000
37	37FXR-RSM1-GAN-TB	10.2	11.4	13.2	10.8	5,000
39	39FXR-RSM1-GAN-TB	10.8	12.0	13.8	11.4	5,000
45	45FXR-RSM1-GAN-TB	12.6	13.8	15.6	13.2	5,000
47	47FXR-RSM1-GAN-TB	13.2	14.4	16.2	13.8	5,000
51	51FXR-RSM1-GAN-TB	14.4	15.6	17.4	15.0	5,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

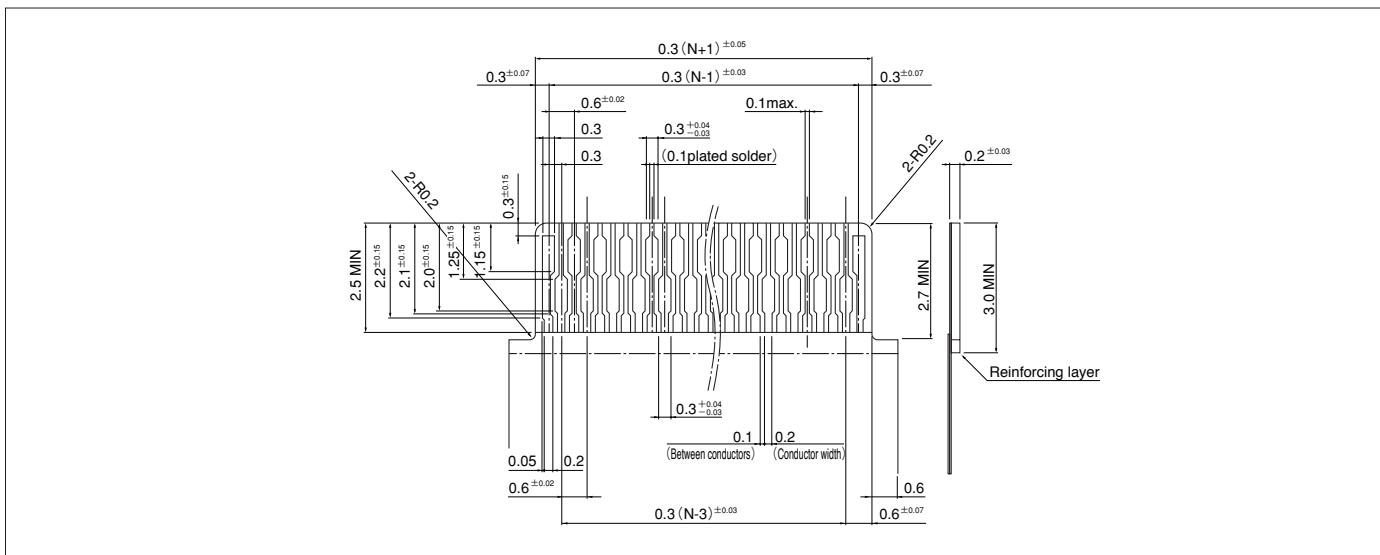
Contact: Copper alloy,
Cover: PPS, UL94V-0

Housing: LCP, UL94V-0

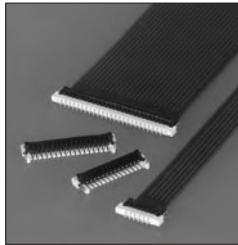
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN)(S)(1) on a label.

Lead section dimensions of FPC



Note: N --- Number of circuits

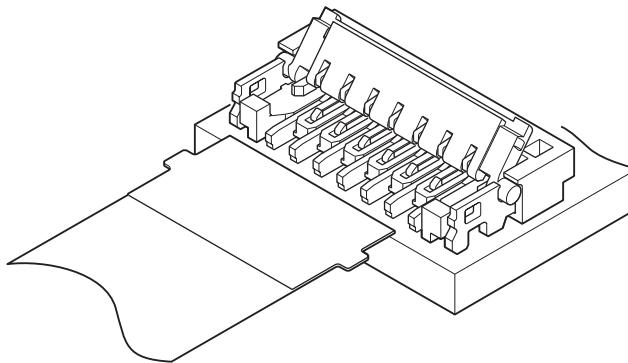


FXV CONNECTOR

0.3mm pitch/Connectors for FPC

Emboss Tape

ZIF
TYPE



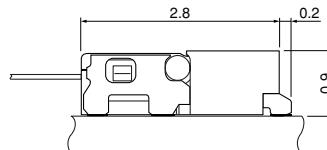
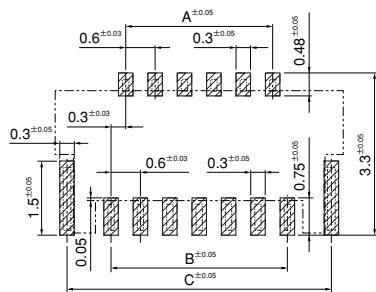
The FXV connector is a market require space saving and low profile 0.3mm pitch connector, and designed for corresponding to FPC with protrusions. As FPC with protrusions is used for this FXV connector, easy insertion operation, protection of incomplete insertion and miss-insertion are realized.

- Double ZIF design for easy insertion operation of FPC
- Self-lock cover design
- Low profile and space saving
- FPC with protrusions

Specifications

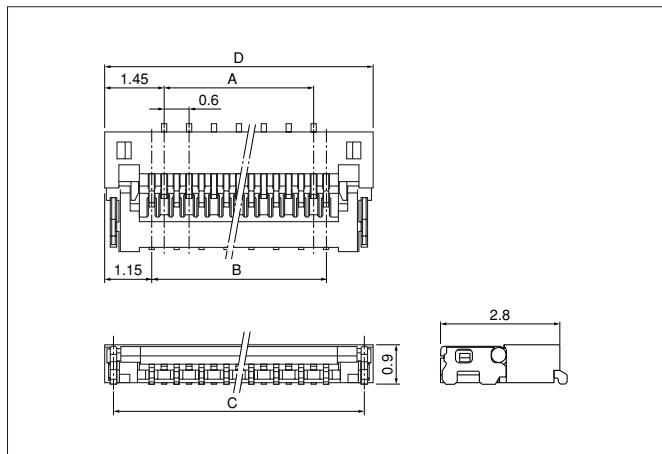
- Current rating: 0.2A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
 - Insulation resistance: 50M Ω min.
 - Withstanding voltage: 200V AC/minute
 - Applicable FPC: Conductor pitch/0.3mm
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
11	11FXV-RSM1-GAN-TF	2.4	3.0	4.82	5.3	5,000
17	17FXV-RSM1-GAN-TF	4.2	4.8	6.62	7.1	5,000
21	21FXV-RSM1-GAN-TF	5.4	6.0	7.82	8.3	5,000
25	25FXV-RSM1-GAN-TF	6.6	7.2	9.02	9.5	5,000
27	27FXV-RSM1-GAN-TF	7.2	7.8	9.62	10.1	5,000
31	31FXV-RSM1-GAN-TF	8.4	9.0	10.82	11.3	5,000
33	33FXV-RSM1-GAN-TF	9.0	9.6	11.42	11.9	5,000
39	39FXV-RSM1-GAN-TF	10.8	11.4	13.22	13.7	5,000
43	43FXV-RSM1-GAN-TF	12.0	12.6	14.42	14.9	5,000
51	51FXV-RSM1-GAN-TF	14.4	15.0	16.82	17.3	5,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

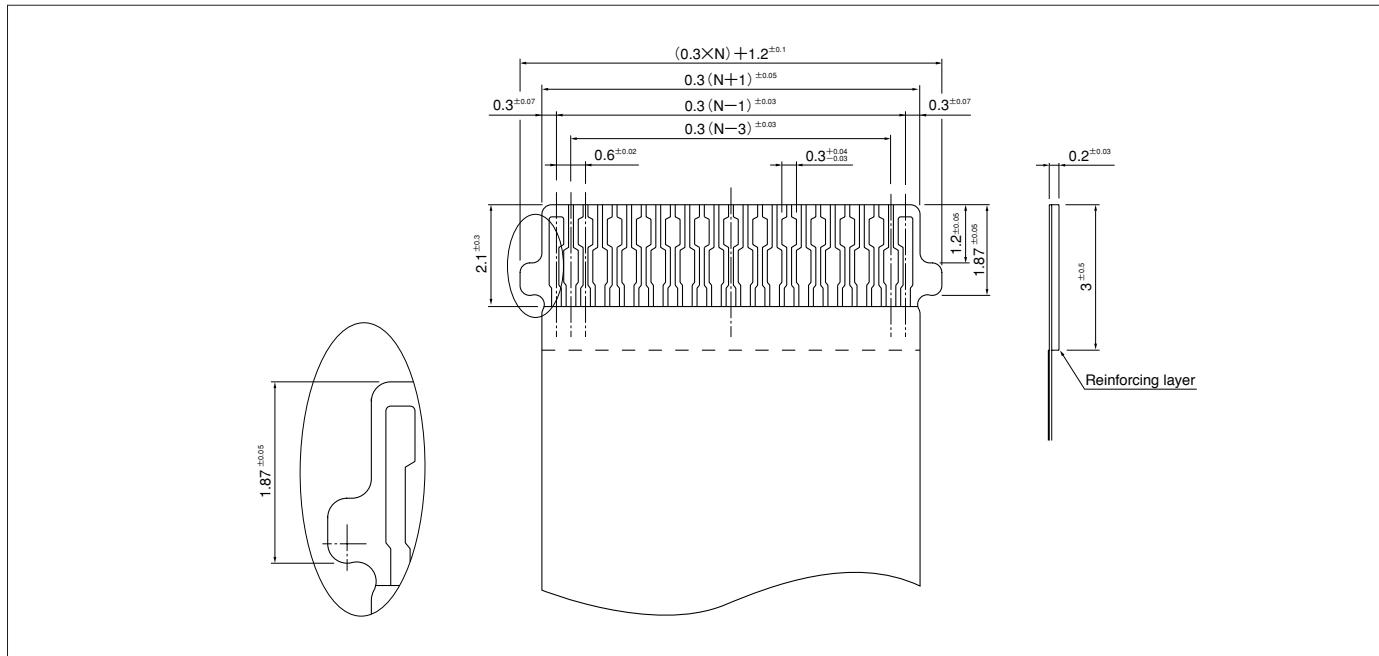
Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

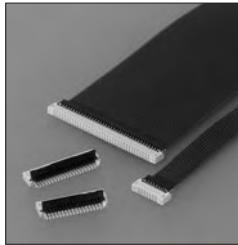
Cover: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN)(M) on a label.
This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



Note: N --- Number of circuits

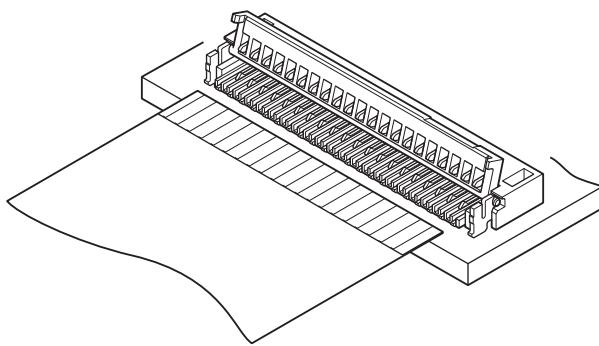


FXZ CONNECTOR

0.3mm pitch/Connectors for FPC



ZIF
TYPE



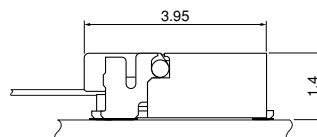
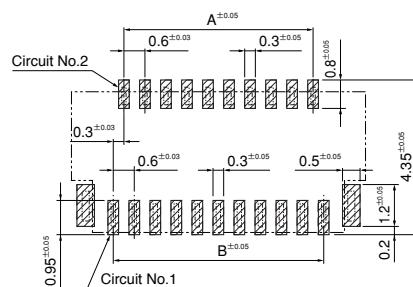
This connector realizes space saving and low profile features demanded by the market, and it provides excellent operability. Various number of circuits can be available.

- Double ZIF design for easy insertion operation of FPC
- Self-lock mechanism enables the cover to close by 'one-touch' operation
- Versatile number of circuit

Specifications

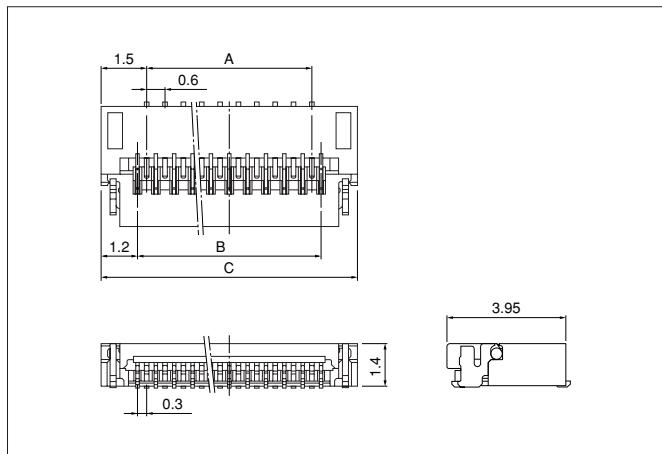
- Current rating: 0.2A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
 - Insulation resistance: 50M Ω min.
 - Withstanding voltage: 200V AC/minute
 - Applicable FPC: Conductor pitch/0.3mm
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty/reel
		A	B	C	
15	15FXZ-RSM1-GAN-ETF	3.6	4.2	6.6	2,500
17	17FXZ-RSM1-GAN-ETF	4.2	4.8	7.2	2,500
23	23FXZ-RSM1-GAN-ETF	6.0	6.6	9.0	2,500
25	25FXZ-RSM1-GAN-ETF	6.6	7.2	9.6	2,500
29	29FXZ-RSM1-GAN-ETF	7.8	8.4	10.8	2,500
31	31FXZ-RSM1-GAN-ETF	8.4	9.0	11.4	2,500
35	35FXZ-RSM1-GAN-ETF	9.6	10.2	12.6	2,500
39	39FXZ-RSM1-GAN-ETF	10.8	11.4	13.8	2,500
51	51FXZ-RSM1-GAN-ETF	14.4	15.0	17.4	2,500
53	53FXZ-RSM1-GAN-ETF	15.0	15.6	18.0	2,500
61	61FXZ-RSM1-GAN-ETF	17.4	18.0	20.4	2,500
73	73FXZ-RSM1-GAN-ETF	21.0	21.6	24.0	2,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

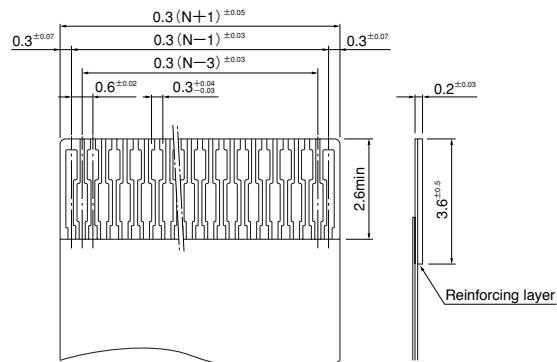
Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



Note: N --- Number of circuits

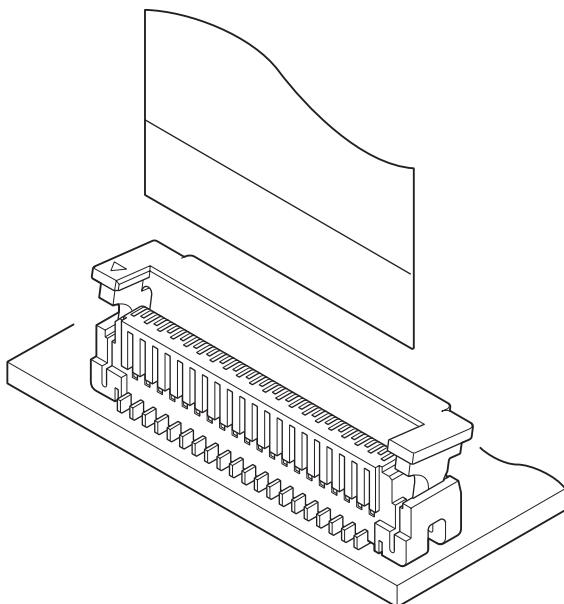


FXZT CONNECTOR

0.3mm pitch/Connectors for FPC



ZIF
TYPE



Vertical 0.3mm pitch ZIF type connector.
This connector was mainly developed to connect FPC and subminiature digital products such as DVC, DSC, PDAs and so on.

- Vertical ZIF type FPC connector
- Space saving
- Adoption of slider structure

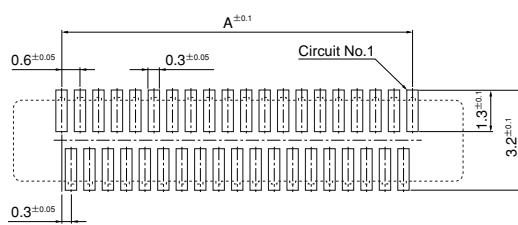
Specifications

- Current rating: 0.2A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
 - Insulation resistance: 50M Ω min.
 - Withstanding voltage: 200V AC/minute
 - Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

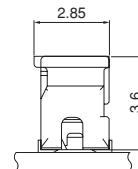
Standards

■ Recognized E60389

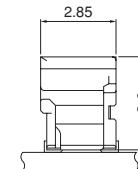
PC board layout (viewed from component side) and Assembly layout



Inner lock type
(39 circuits or less)



Outer lock type
(41 circuits or more)

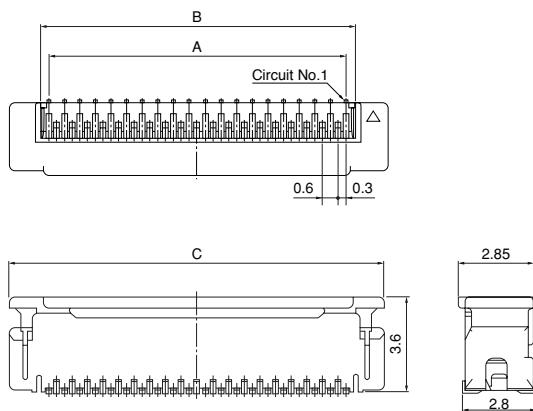


Note: 1. Tolerances are non-cumulative: ±0.1mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

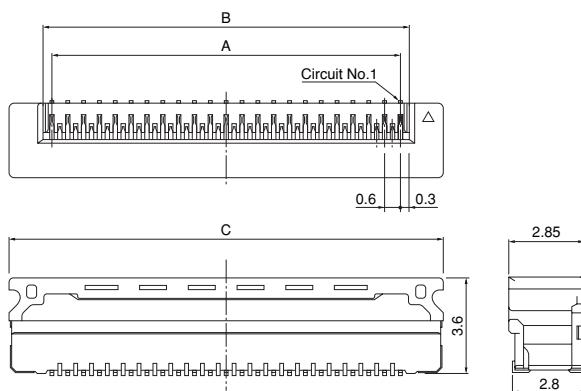
Inner lock type

(39 circuits or less)

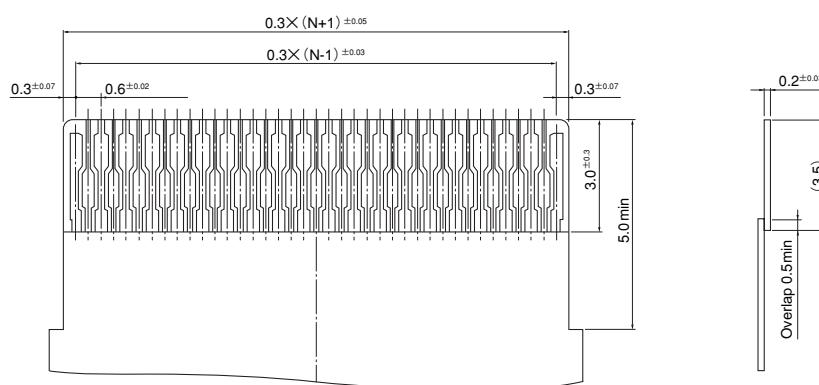


Outer lock type

(41 circuits or more)



Lead section dimensions of FPC



Note: N--Number of circuits

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
17	17FXZT-SM1-GAN-TF	4.8	5.4	8.0	2,000
21	21FXZT-SM1-GAN-TF	6.0	6.6	9.2	2,000
23	23FXZT-SM1-GAN-TF	6.6	7.2	9.8	2,000
25	25FXZT-SM1-GAN-TF	7.2	7.8	10.4	2,000
27	27FXZT-SM1-GAN-TF	7.8	8.4	11.0	2,000
31	31FXZT-SM1-GAN-TF	9.0	9.6	12.2	2,000
33	33FXZT-SM1-GAN-TF	9.6	10.2	12.8	2,000
39	39FXZT-SM1-GAN-TF	11.4	12.0	14.6	2,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

Slider housing: Heat resisting resin, UL94V-0, black

Socket housing: Heat resisting resin, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
45	45FXZT-SM1-GAN-TF	13.2	13.8	16.4	2,000
51	51FXZT-SM1-GAN-TF	15.0	15.6	18.2	2,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

Slider housing: Heat resisting resin, UL94V-0, black

Socket housing: Heat resisting resin, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

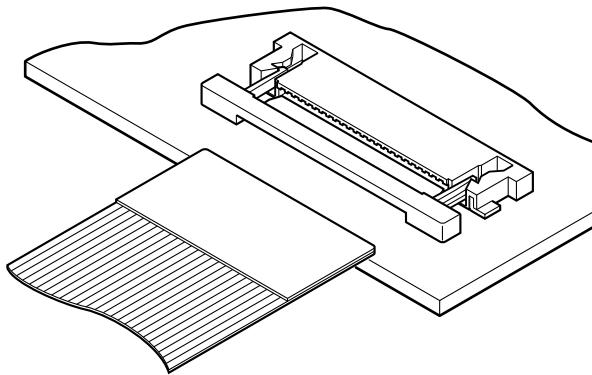


FLH CONNECTOR

0.5mm pitch/Connectors for FPC

Emboss Tape

ZIF
TYPE



Compact connector with just 1.2mm high after mounting on the PC board.

- Thin design
- Heat resisting design suitable for surface mounting
- In-line surface mounting
- Two types of connections
- Embossed tape for automatic mounting

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.30±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

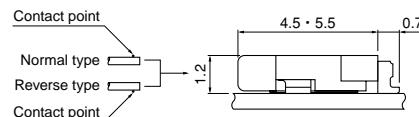
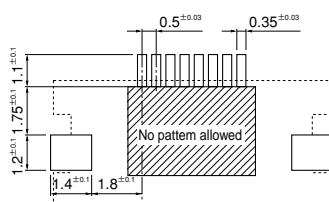
* Contact JST for details.

Standards

■ Recognized E60389

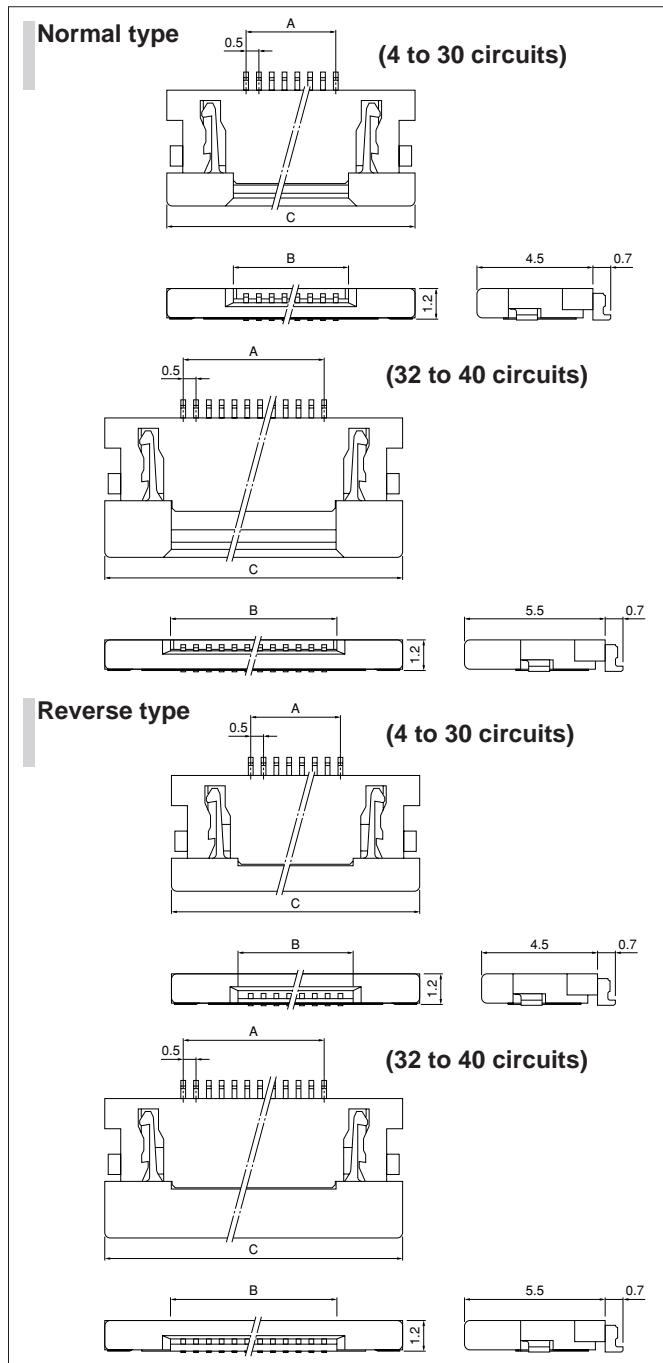
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Circuits	Model No.		Dimensions (mm)			Q'ty / reel
	Normal type	Reverse type	A	B	C	
4	04FLH-SM1-TB	04FLH-RSM1-TB	1.5	2.55	7.7	3,000
6	06FLH-SM1-TB	06FLH-RSM1-TB	2.5	3.55	8.7	3,000
7	07FLH-SM1-TB	07FLH-RSM1-TB	3.0	4.05	9.2	3,000
8	08FLH-SM1-TB	08FLH-RSM1-TB	3.5	4.55	9.7	3,000
10	10FLH-SM1-TB	10FLH-RSM1-TB	4.5	5.55	10.7	3,000
11	11FLH-SM1-TB	11FLH-RSM1-TB	5.0	6.05	11.2	3,000
12	12FLH-SM1-TB	12FLH-RSM1-TB	5.5	6.55	11.7	3,000
13	13FLH-SM1-TB	13FLH-RSM1-TB	6.0	7.05	12.2	3,000
14	14FLH-SM1-TB	14FLH-RSM1-TB	6.5	7.55	12.7	3,000
15	15FLH-SM1-TB	15FLH-RSM1-TB	7.0	8.05	13.2	3,000
16	16FLH-SM1-TB	16FLH-RSM1-TB	7.5	8.55	13.7	3,000
17	17FLH-SM1-TB	17FLH-RSM1-TB	8.0	9.05	14.2	3,000
18	18FLH-SM1-TB	18FLH-RSM1-TB	8.5	9.55	14.7	3,000
19	—	19FLH-RSM1-TB	9.0	10.05	15.2	3,000
20	20FLH-SM1-TB	20FLH-RSM1-TB	9.5	10.55	15.7	3,000
21	21FLH-SM1-TB	—	10.0	11.05	16.2	3,000
22	22FLH-SM1-TB	22FLH-RSM1-TB	10.5	11.55	16.7	3,000
24	24FLH-SM1-TB	24FLH-RSM1-TB	11.5	12.55	17.7	3,000
26	26FLH-SM1-TB	—	12.5	13.55	18.7	3,000
28	28FLH-SM1-TB	28FLH-RSM1-TB	13.5	14.55	19.7	3,000
30	30FLH-SM1-TB	30FLH-RSM1-TB	14.5	15.55	20.7	3,000
32	32FLH-SM1-TB	32FLH-RSM1-TB	15.5	16.55	21.7	3,000
34	—	34FLH-RSM1-TB	16.5	17.55	22.7	3,000
40	40FLH-SM1-TB	40FLH-RSM1-TB	19.5	20.55	25.7	3,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

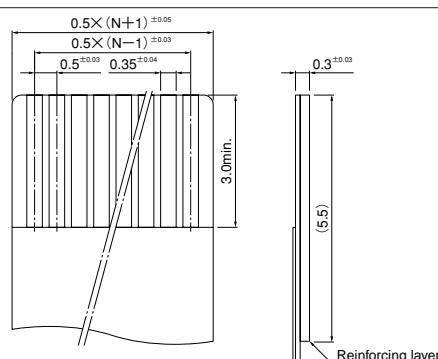
Housing: LCP, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Slider: PA 6T, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed tape.

Lead section dimensions of FPC



Note: N --- Number of circuits

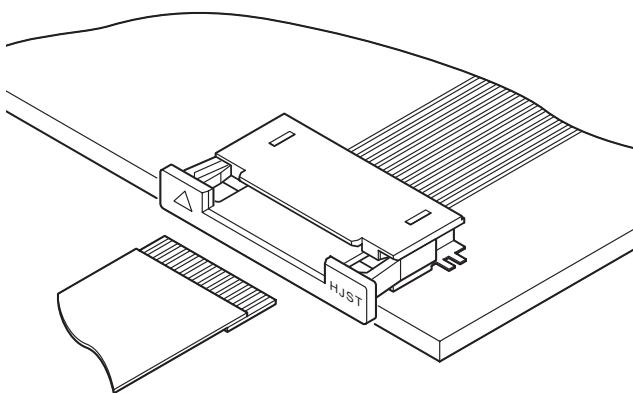


FLZ CONNECTOR

0.5mm pitch/Connectors for FFC and FPC



ZIF
TYPE



This extremely small 0.5mm pitch connector with a height of only 2.0mm above the PCB surface allows interconnection in extremely small spaces and is an example of JST's leading edge technology.

- Zero insertion force mechanism
- Heat resisting design suitable for surface mounting
- In-line surface mount tails
- Two types of connections
- Embossed tape for automatic mounting

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FFC and FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.30±0.03mm

Note: FFC and FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

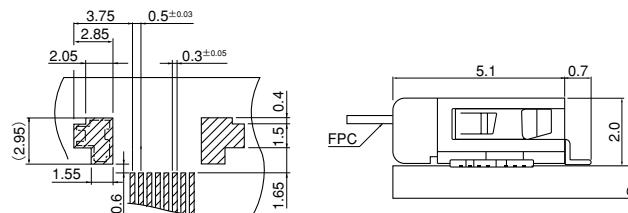
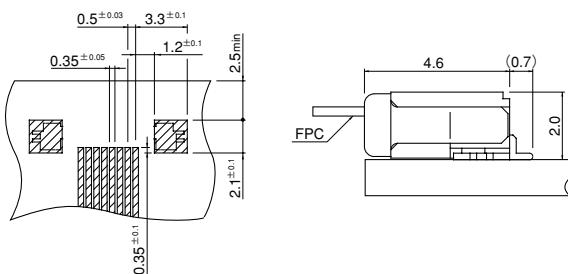
Standards

■ Recognized E60389

■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

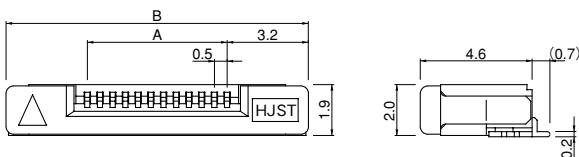
Inner lock type



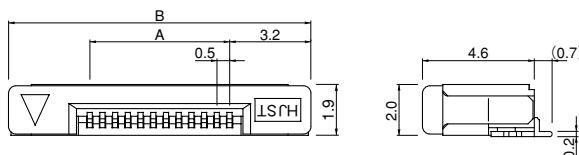
Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Normal type

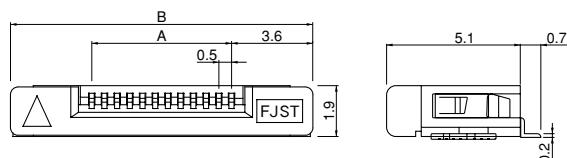


Reverse type

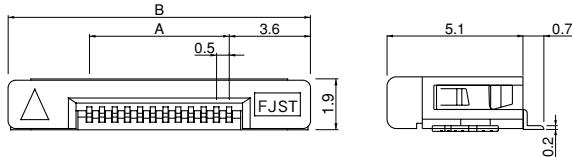


<Inner lock type>

Normal type



Reverse type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
6	06FLZ-SM2-TB	06FLZ-RSM2-TB	2.5	8.9	2,000
7	07FLZ-SM2-TB	07FLZ-RSM2-TB	3.0	9.4	2,000
8	08FLZ-SM2-TB	08FLZ-RSM2-TB	3.5	9.9	2,000
9	09FLZ-SM2-TB	09FLZ-RSM2-TB	4.0	10.4	2,000
10	10FLZ-SM2-TB	10FLZ-RSM2-TB	4.5	10.9	2,000
11	11FLZ-SM2-TB	11FLZ-RSM2-TB	5.0	11.4	2,000
12	12FLZ-SM2-TB	12FLZ-RSM2-TB	5.5	11.9	2,000
13	13FLZ-SM2-TB	13FLZ-RSM2-TB	6.0	12.4	2,000
14	14FLZ-SM2-TB	14FLZ-RSM2-TB	6.5	12.9	2,000
15	15FLZ-SM2-TB	15FLZ-RSM2-TB	7.0	13.4	2,000
16	16FLZ-SM2-TB	16FLZ-RSM2-TB	7.5	13.9	2,000
17	17FLZ-SM2-TB	17FLZ-RSM2-TB	8.0	14.4	2,000
18	18FLZ-SM2-TB	18FLZ-RSM2-TB	8.5	14.9	2,000
19	19FLZ-SM2-TB	19FLZ-RSM2-TB	9.0	15.4	2,000
20	20FLZ-SM2-TB	20FLZ-RSM2-TB	9.5	15.9	2,000
21	21FLZ-SM2-TB	21FLZ-RSM2-TB	10.0	16.4	2,000
22	22FLZ-SM2-TB	22FLZ-RSM2-TB	10.5	16.9	2,000
23	23FLZ-SM2-TB	23FLZ-RSM2-TB	11.0	17.4	2,000
24	24FLZ-SM2-TB	24FLZ-RSM2-TB	11.5	17.9	2,000
25	25FLZ-SM2-TB	25FLZ-RSM2-TB	12.0	18.4	2,000
26	26FLZ-SM2-TB	26FLZ-RSM2-TB	12.5	18.9	2,000
27	27FLZ-SM2-TB	27FLZ-RSM2-TB	13.0	19.4	2,000
28	28FLZ-SM2-TB	28FLZ-RSM2-TB	13.5	19.9	2,000
30	30FLZ-SM2-TB	30FLZ-RSM2-TB	14.5	20.9	2,000
33	33FLZ-SM2-TB	—	16.0	22.4	2,000

<Inner lock type>

Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
13	—	13FLZ-RSM2-R-TB	6.0	13.1	2,000
30	30FLZ-SM2-R-TB	—	14.5	21.6	2,000
32	32FLZ-SM2-R-TB	32FLZ-RSM2-R-TB	15.5	22.6	2,000
34	34FLZ-SM2-R-TB	34FLZ-RSM2-R-TB	16.5	23.6	2,000
36	36FLZ-SM2-R-TB	36FLZ-RSM2-R-TB	17.5	24.6	2,000
40	40FLZ-SM2-R-TB	40FLZ-RSM2-R-TB	19.5	26.6	2,000
42	42FLZ-SM2-R-TB	—	20.5	27.6	2,000
45	45FLZ-SM2-R-TB	—	22.0	29.1	2,000
50	50FLZ-SM2-R-TB	—	24.5	31.6	2,000

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

Slider housing: PA 6T, UL94V-0 (black)

Housing: PA 6T, UL94V-0

Normal type...gray

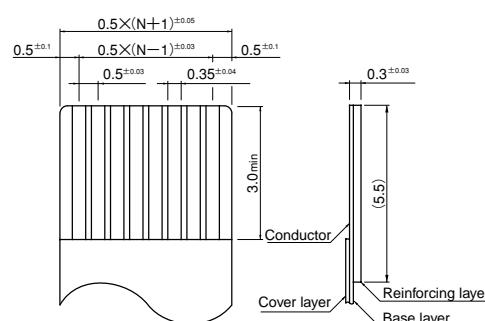
Reverse type...natural

Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

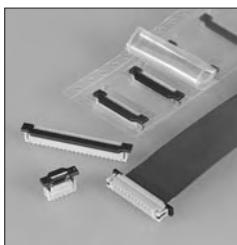
RoHS compliance This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed tape.

Lead section dimensions of FFC and FPC



Note: N --- Number of circuits

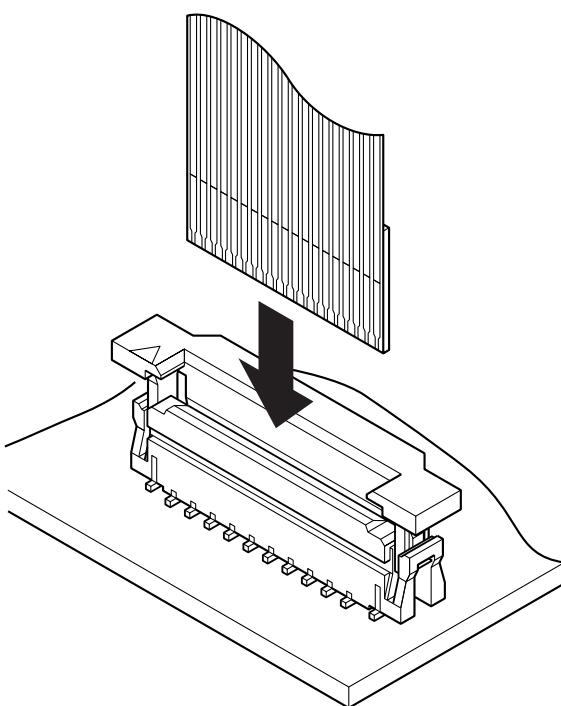


FLZT CONNECTOR

0.5mm pitch/Connectors for FPC



**ZIF
TYPE**



Vertical 0.5mm pitch ZIF type connector with staggered solder tails. Both normal type and reverse type are available.

- Zero insertion force mechanism
- Two types of connections
- Heat resisting design suitable for surface mounting

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3±0.05mm

Note: FPC to be actually used should be checked for applicability.

- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

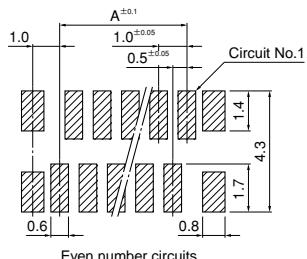
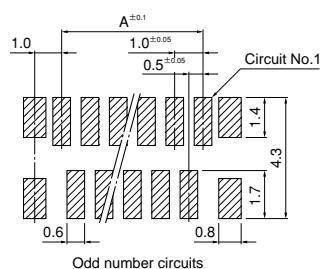
Standards

Recognized E60389

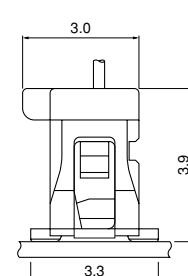
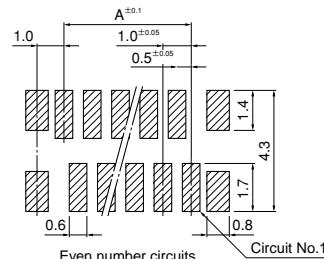
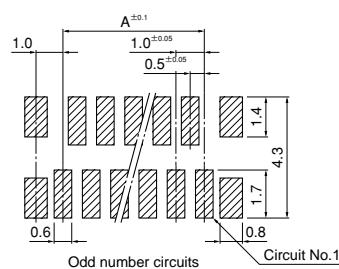
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Normal type



Reverse type

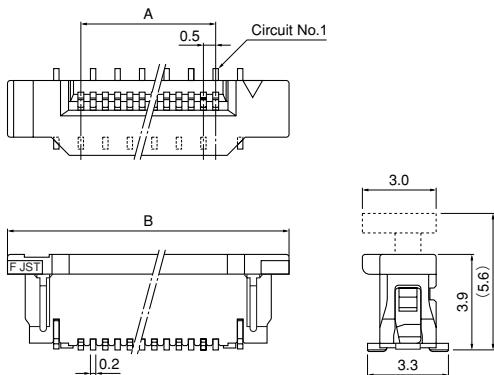


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

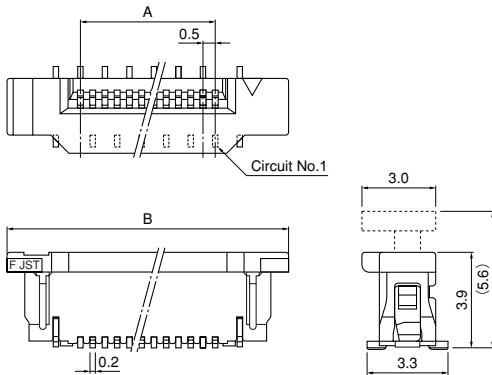
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Normal type



Reverse type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
6	06FLZT-SM1-TF	06FLZT-RSM1-TF	2.5	8.5	1,500
8	08FLZT-SM1-TF	08FLZT-RSM1-TF	3.5	9.5	1,500
10	10FLZT-SM1-TF	10FLZT-RSM1-TF	4.5	10.5	1,500
12	12FLZT-SM1-TF	12FLZT-RSM1-TF	5.5	11.5	1,500
14	14FLZT-SM1-TF	14FLZT-RSM1-TF	6.5	12.5	1,500
15	15FLZT-SM1-TF	15FLZT-RSM1-TF	7.0	13.0	1,500
16	16FLZT-SM1-TF	16FLZT-RSM1-TF	7.5	13.5	1,500
20	20FLZT-SM1-TF	20FLZT-RSM1-TF	9.5	15.5	1,500
22	22FLZT-SM1-TF	22FLZT-RSM1-TF	10.5	16.5	1,500
24	24FLZT-SM1-TF	24FLZT-RSM1-TF	11.5	17.5	1,500
28	28FLZT-SM1-TF	28FLZT-RSM1-TF	13.5	19.5	1,500
30	30FLZT-SM1-TF	30FLZT-RSM1-TF	14.5	20.5	1,500
37	37FLZT-SM1-TF	37FLZT-RSM1-TF	18.0	24.0	1,500
40	40FLZT-SM1-TF	40FLZT-RSM1-TF	19.5	25.5	1,500
42	42FLZT-SM1-TF	42FLZT-RSM1-TF	20.5	26.5	1,500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Slider housing: PPS, UL94V-0

Nominal type...natural (brown)

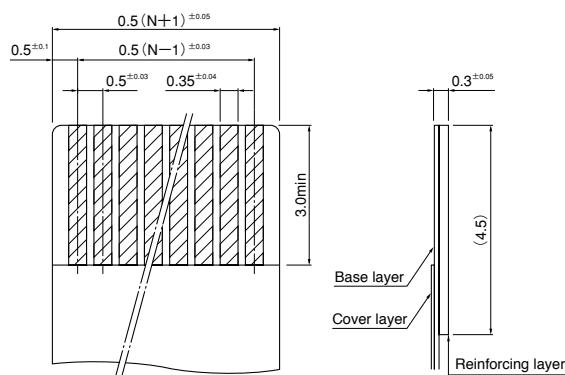
Reverse type...black

Housing: PPS, UL94V-0, natural

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N---Number of circuits

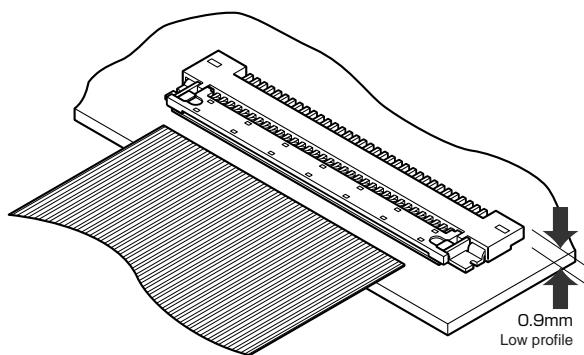


FHX CONNECTOR

0.5mm pitch/Connectors for FPC



**ZIF
TYPE**



ZIF (zero insertion force) flip lock type connectors.

- **Low-profile**
- **Heat resisting design suitable for surface mounting**

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.12±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

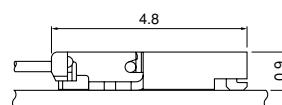
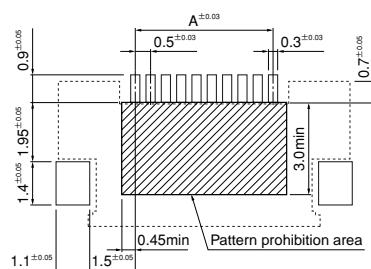
* Contact JST for details.

Standards

Recognized E60389

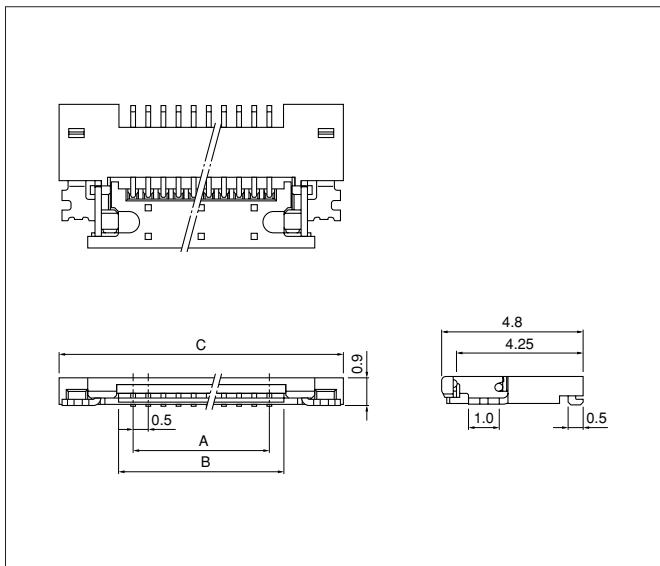
Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guide line. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
19	19FHX-RSM1-G-1-S-TB	9.0	10.0	14.0	3,000
20	20FHX-RSM1-G-1-S-TB	9.5	10.5	14.5	3,000
24	24FHX-RSM1-G-1-S-TB	11.5	12.5	16.5	3,000
27	27FHX-RSM1-G-1-S-TB	13.0	14.0	18.0	3,000
34	34FHX-RSM1-G-1-S-TB	16.5	17.5	21.5	3,000
40	40FHX-RSM1-G-1-S-TB	19.5	20.5	24.5	3,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

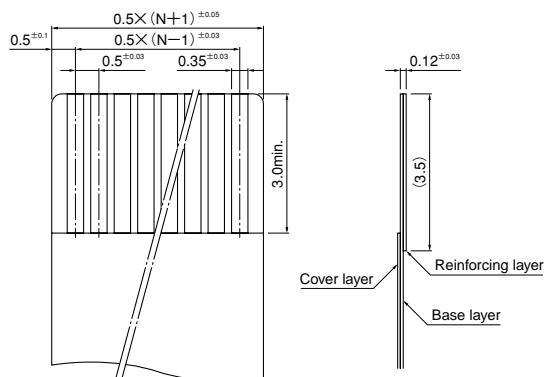
Housing: LCP, UL94V-0, natural (white)

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover: LCP, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N --- Number of circuits

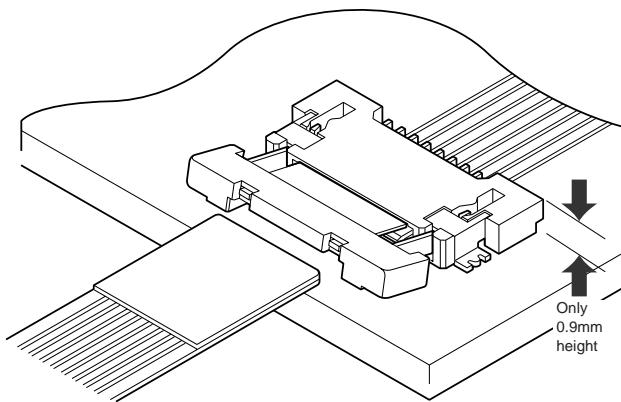


FHZ CONNECTOR

0.5mm pitch/Connectors for FPC



ZIF
TYPE



Suitable for thin FPCs of 0.1mm, 0.12mm or 0.2mm thick.

- **Low-profile**
- **Circuit pattern can be designed under the connector**

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/20m Ω max.
(variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.10±0.01mm
0.12±0.03mm
0.20±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

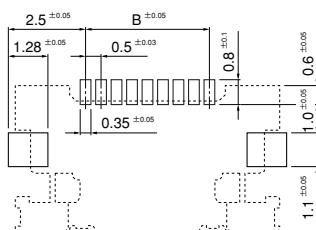
* Contact JST for details.

Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from component side) and Assembly layout

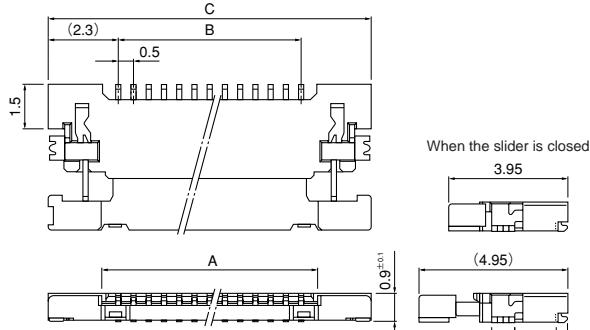


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guide line. Contact JST for details.

Connector

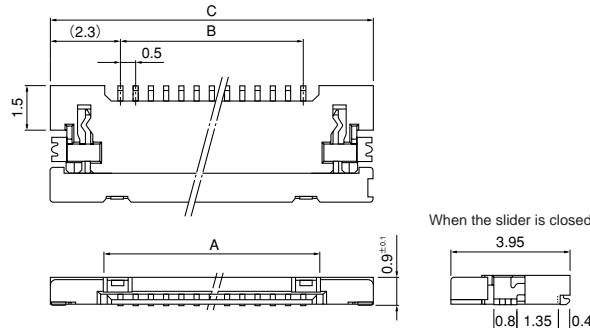
Normal type



Normal type

Slider	Circuits	Model No.	Dimensions (mm)			Applicable FPC thickness (mm)	Q'ty / reel
			A	B	C		
Opened	15	15FHZ-SM1-S-TB (F)	8.05	7.0	11.6	0.1	4,000
	24	24FHZ-SM1-S-TB (F)	12.55	11.5	16.1	0.1	4,000
	26	26FHZ-SM1-S-TB (F)	13.55	12.5	17.1	0.1	4,000
Closed	29	29FHZ-SM1-S-TB (F)	15.05	14.0	18.6	0.1	4,000
	24	24FHZ-SM1-S-TB	12.55	11.5	16.1	0.1	4,000
	4	04FHZ-SM1-TB (F)	2.55	1.5	6.1	0.2	4,000
Opened	15	15FHZ-SM1-TB (F)	8.05	7.0	11.6	0.2	4,000
	18	18FHZ-SM1-TB (F)	9.55	8.5	13.1	0.2	4,000
	29	29FHZ-SM1-T-G-TB (F)	15.05	14.0	18.6	0.12	4,000
Closed	33	33FHZ-SM1-T-TB (F)	17.05	16.0	20.6	0.12	4,000
	4	04FHZ-SM1-TB	2.55	1.5	6.1	0.2	4,000
	18	18FHZ-SM1-TB	9.55	8.5	13.1	0.2	4,000
20	20	20FHZ-SM1-TB	10.55	9.5	14.1	0.2	4,000
	22	22FHZ-SM1-TB	11.55	10.5	15.1	0.2	4,000

Reverse type



Reverse type

Slider	Circuits	Model No.	Dimensions (mm)			Applicable FPC thickness (mm)	Q'ty / reel
			A	B	C		
Closed	6	06FHZ-RSM1-TB	3.55	2.5	7.1	0.2	4,000
	8	08FHZ-RSM1-TB	4.55	3.5	8.1	0.2	4,000
	10	10FHZ-RSM1-G-TB	5.55	4.5	9.1	0.2	4,000
	18	18FHZ-RSM1-TB	9.55	8.5	13.1	0.2	4,000
	20	20FHZ-RSM1-TB	10.55	9.5	14.1	0.2	4,000
	22	22FHZ-RSM1-TB	11.55	10.5	15.1	0.2	4,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
29FHZ-SM1-T-G-TB (F) and 10FHZ-RSM1-G-TB ... nickel-undercoated, gold-plated (flash)

Housing: LCP, UL94V-0, Normal type...yellow
Reverse type...natural

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Slider: PA 9T, UL94V-0, Applicable FPC thickness 0.1 gray

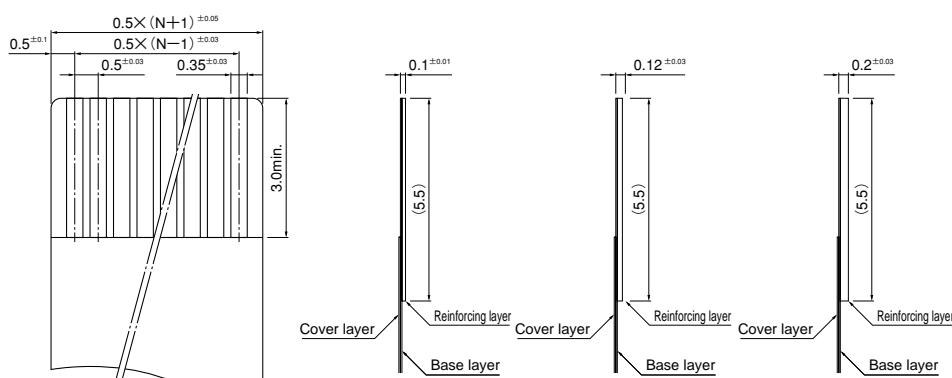
Applicable FPC thickness 0.12 blue

Applicable FPC thickness 0.2 black

Slider arm: Stainless

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N --- Number of circuits

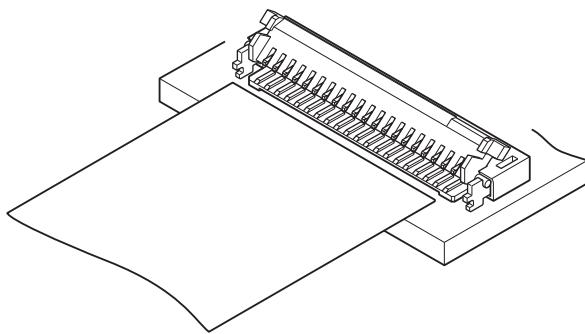


FHSY CONNECTOR

0.5mm pitch/Connectors for FPC



ZIF
TYPE



This ZIF (zero insertion force) type flip lock FPC connector achieves a low profile feature of a 0.9mm mounting height despite the thickness of the FPC being 0.3mm.

- Space saving design
- Heat resisting design suitable for surface mounting
- Embossed tape for automatic mounting

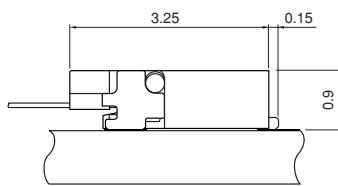
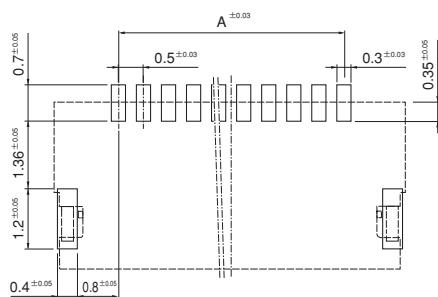
Specifications

- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
 - Insulation resistance: 800M Ω min.
 - Withstanding voltage: 200V AC/minute
 - Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3±0.05mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

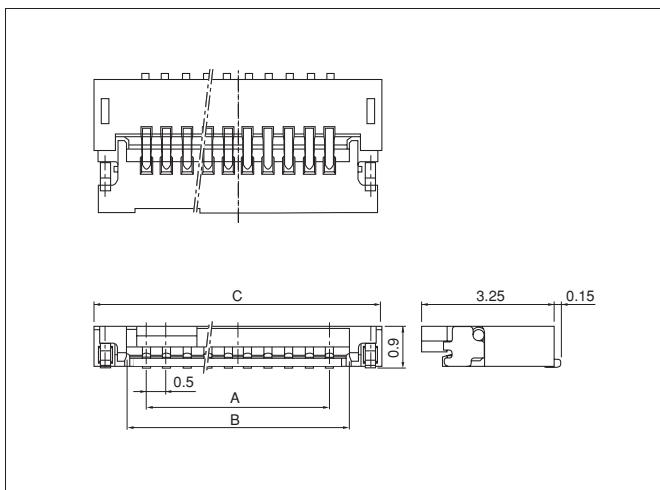
■ Recognized E60389

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	05FHSY-RSM1-GAN-TB	2.0	3.0	4.56	3,000
6	06FHSY-RSM1-GAN-TB	2.5	3.5	5.06	3,000
11	11FHSY-RSM1-GAN-TB	5.0	6.0	7.56	3,000
12	12FHSY-RSM1-GAN-TB	5.5	6.5	8.06	3,000
16	16FHSY-RSM1-GAN-TB	7.5	8.5	10.06	3,000
18	18FHSY-RSM1-GAN-TB	8.5	9.5	11.06	3,000
20	20FHSY-RSM1-GAN-TB	9.5	10.5	12.06	3,000
24	24FHSY-RSM1-GAN-TB	11.5	12.5	14.06	3,000
28	28FHSY-RSM1-GAN-TB	13.5	14.5	16.06	3,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

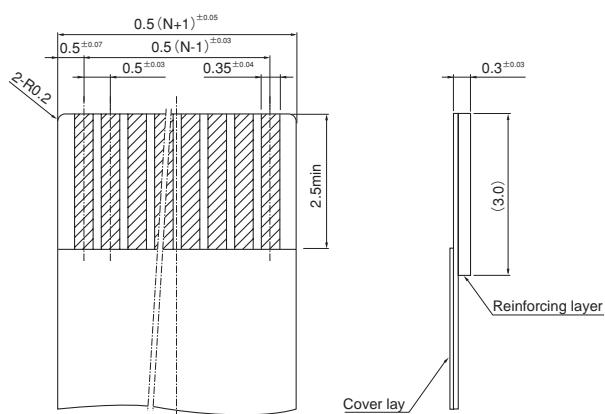
Cover: Heat resisting resin, UL94V-0

Housing: Heat resisting resin, UL94V-0

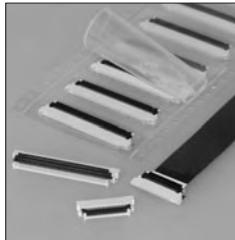
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N --- Number of circuits

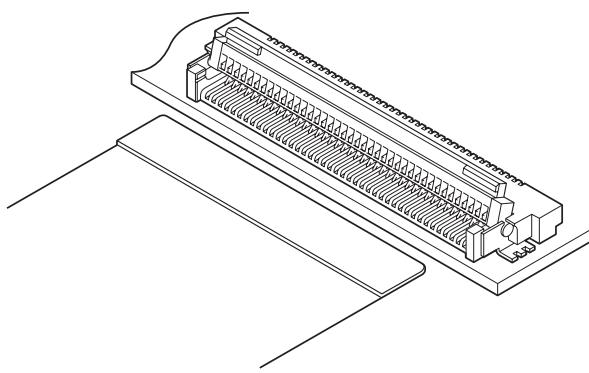


FLZX CONNECTOR

0.5mm pitch/Connectors for FFC and FPC



ZIF
TYPE



The connector for the 0.3mm thickness FFC or FPC with a mounting height of 2.0mm.

This 0.5mm pitch FFC or FPC connector adopts a ZIF structure, which provides superior performance in durability and offers effective protection from wearing. The use of the rotating type cover contributes to easy operation especially with big circuits connectors.

- Rotating type cover
- Reliable cover
- Heat resisting design for surface mounting

Specifications

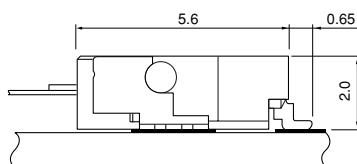
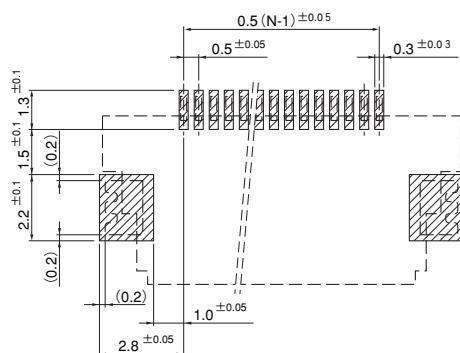
- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
 - Insulation resistance: 500M Ω min.
 - Withstanding voltage: 200V AC/minute
 - Applicable FFC and FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3±0.03mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

■ Recognized E60389

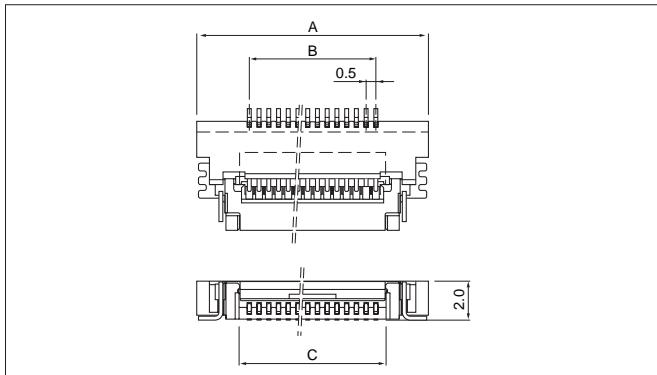
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.
3. N --- Number of circuits

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
20	20FLZX-RSM1-A-TB	14.9	9.5	10.55	2,000
24	24FLZX-RSM1-A-TB	16.9	11.5	12.55	2,000
32	32FLZX-RSM1-A-TB	20.9	15.5	16.55	2,000
34	34FLZX-RSM1-A-TB	21.9	16.5	17.55	2,000
50	50FLZX-RSM1-A-TB	29.9	24.5	25.55	2,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

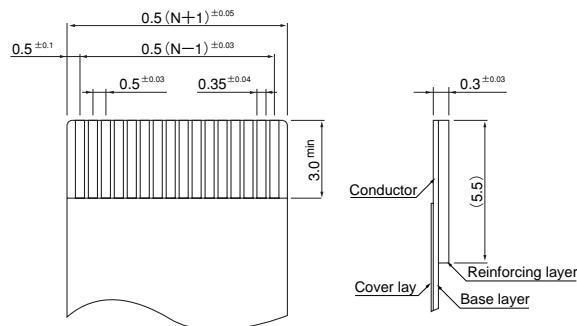
Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover housing: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FFC and FPC



Note: N --- Number of circuits

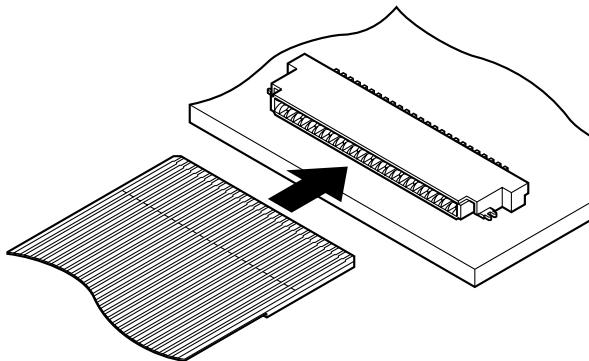


FH CONNECTOR

0.5mm pitch/Connectors for FPC



NON-ZIF
TYPE



The large miniaturization at pitch direction and depth direction and low profile as 1.2mm mounting height are realized. FH connector is miniaturized and space saving Non-ZIF type connector for FPC.

- Double-sided contact
- Applicable to standard FPC

Specifications

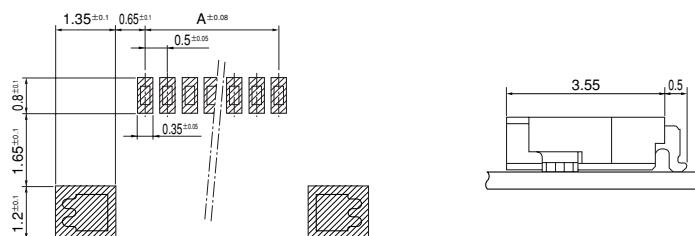
- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/40m Ω max.
After environmental testing/20m Ω max.
(variation from initial value)
 - Insulation resistance: 500M Ω min.
 - Withstanding voltage: 200V AC/minute
 - Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3±0.05mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

■ Recognized E60389

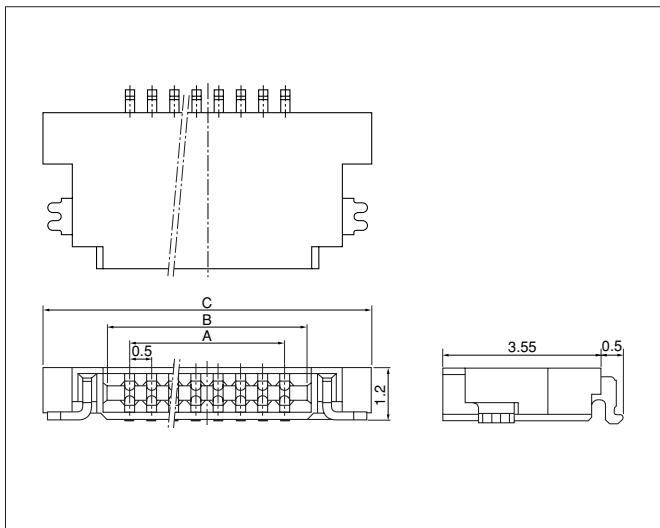
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.08mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	05FH-SM1-TB	2.0	3.0	5.9	4,000
6	06FH-SM1-TB	2.5	3.5	6.4	4,000
7	07FH-SM1-TB	3.0	4.0	6.9	4,000
8	08FH-SM1-TB	3.5	4.5	7.4	4,000
10	10FH-SM1-TB	4.5	5.5	8.4	4,000
11	11FH-SM1-TB	5.0	6.0	8.9	4,000
12	12FH-SM1-TB	5.5	6.5	9.4	4,000
14	14FH-SM1-TB	6.5	7.5	10.4	4,000
16	16FH-SM1-TB	7.5	8.5	11.4	4,000
18	18FH-SM1-TB	8.5	9.5	12.4	4,000
20	20FH-SM1-TB	9.5	10.5	13.4	4,000
25	25FH-SM1-TB	12.0	13.0	15.9	4,000

Material and Finish

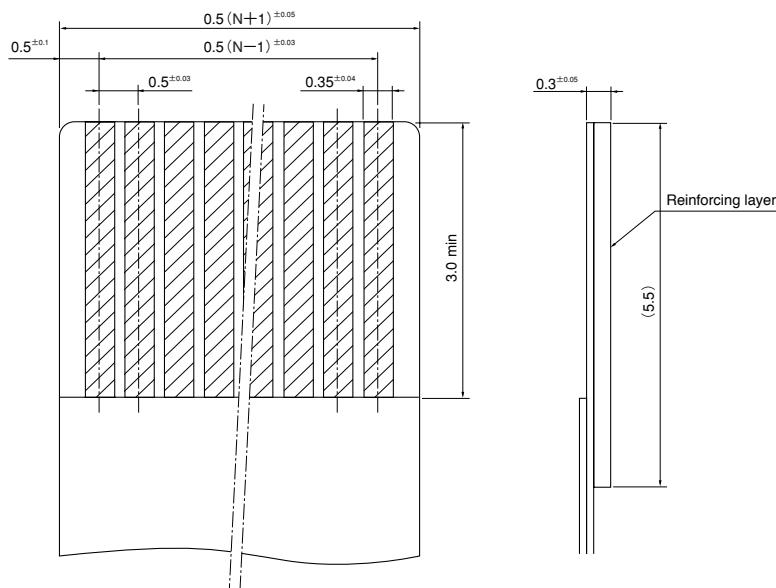
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: LCP, UL94V-0

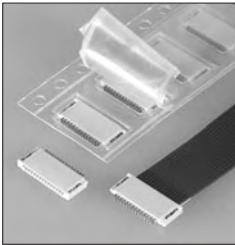
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N --- Number of circuits

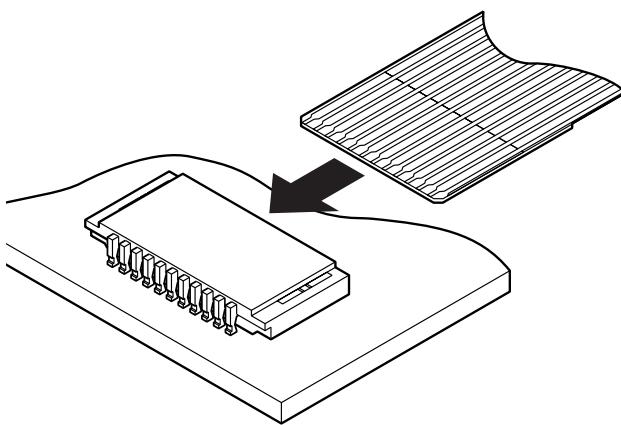


FHJ CONNECTOR

0.5mm pitch/Connectors for FPC



NON-ZIF TYPE



Non-ZIF type low profile of 1.2mm mounting height. 0.3mm thick standard type FPC is applicable.

- **Compact mounting space**
- **Heat resisting design suitable for surface mounting**

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/20m Ω max.
(variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3±0.05mm

Note: FPC to be actually used should be checked for applicability.

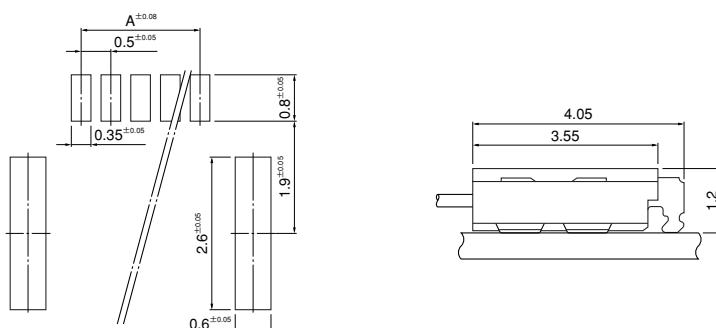
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

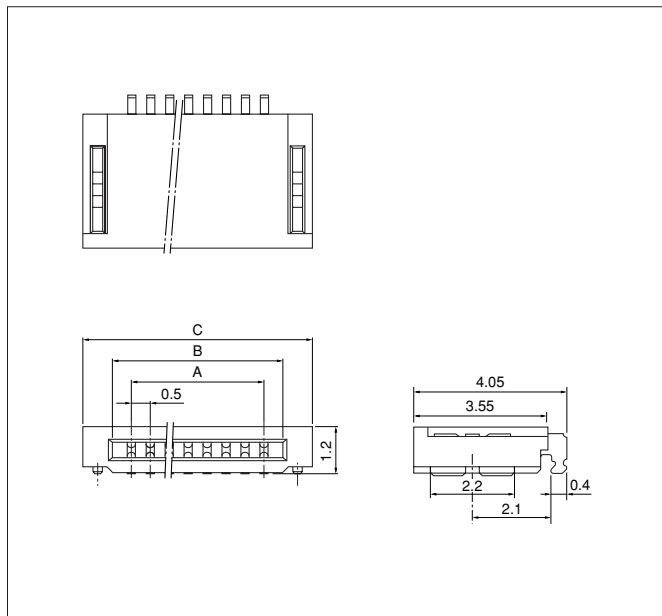
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.08mm for all centers.
2. The dimensions above should serve as a guide line. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	05FHJ-SM1-TB	2.0	3.0	4.6	4,000
6	06FHJ-SM1-TB	2.5	3.5	5.1	4,000
7	07FHJ-SM1-TB	3.0	4.0	5.6	4,000
8	08FHJ-SM1-TB	3.5	4.5	6.1	4,000
10	10FHJ-SM1-TB	4.5	5.5	7.1	4,000
11	11FHJ-SM1-TB	5.0	6.0	7.6	4,000
12	12FHJ-SM1-TB	5.5	6.5	8.1	4,000
14	14FHJ-SM1-TB	6.5	7.5	9.1	4,000
16	16FHJ-SM1-TB	7.5	8.5	10.1	4,000
18	18FHJ-SM1-TB	8.5	9.5	11.1	4,000
20	20FHJ-SM1-TB	9.5	10.5	12.1	4,000
21	21FHJ-SM1-TB	10.0	11.0	12.6	4,000
24	24FHJ-SM1-TB	11.5	12.5	14.1	4,000

Material and Finish

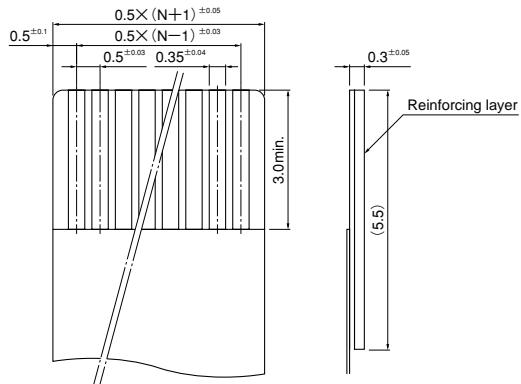
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: LCP, UL94V-0

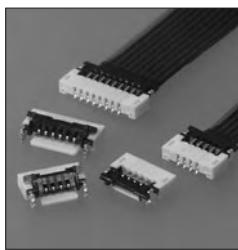
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N --- Number of circuits

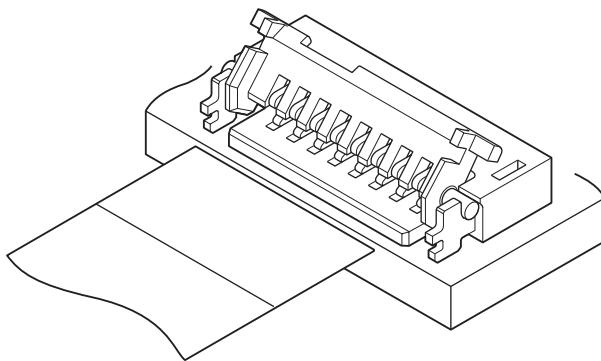


FHS CONNECTOR

0.5mm pitch/Connectors for FPC



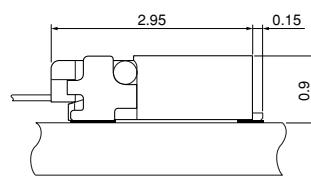
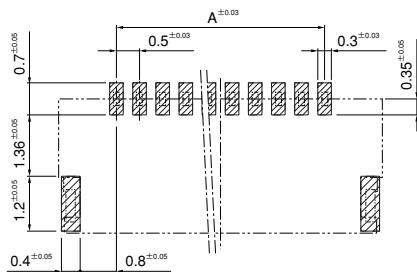
ZIF
TYPE



FHS connector is a space-saving type connector for FPC with 3.1mm depth, though it is low profile of 0.9mm mounting height. 0.2mm thick standard FPC.

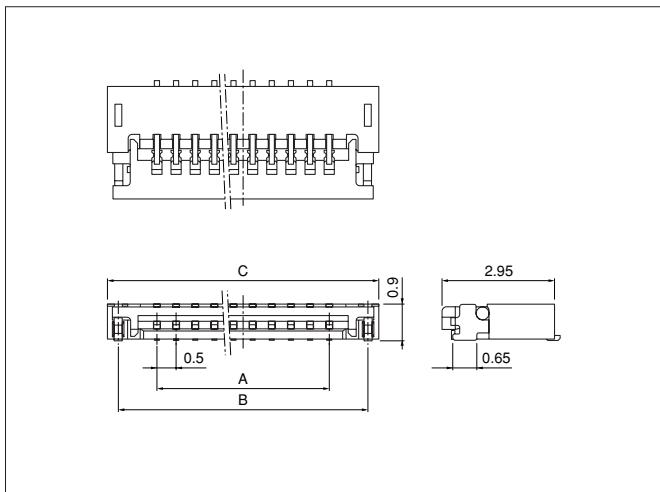
- Space saving design
- Heat resisting design suitable for surface mounting
- Self-lock mechanism enables the cover to close by one-touch operation

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
3	03FHS-RSM1-GAN-TB	1.0	3.0	3.56	6,000
4	04FHS-RSM1-GAN-TB	1.5	3.5	4.06	6,000
6	06FHS-RSM1-GAN-TB	2.5	4.5	5.06	6,000
8	08FHS-RSM1-GAN-TB	3.5	5.5	6.06	6,000
9	09FHS-RSM1-GAN-TB	4.0	6.0	6.56	6,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

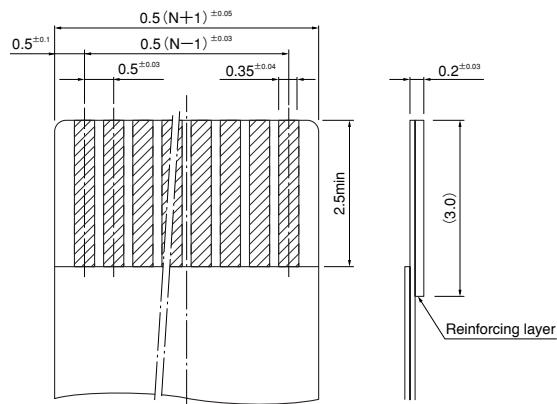
Housing: LCP, UL94V-0

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

Cover: PPS, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



Note: N --- Number of circuits

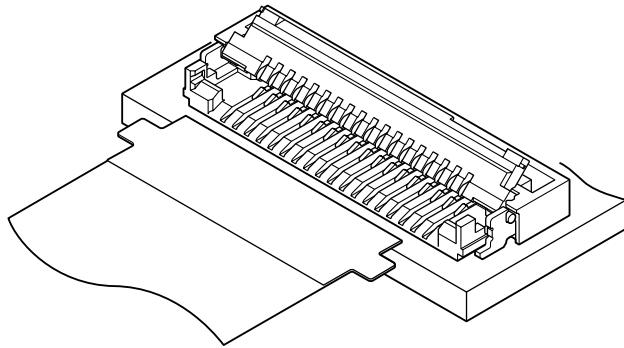


FHY CONNECTOR

0.5mm pitch/Connectors for FPC



ZIF
TYPE



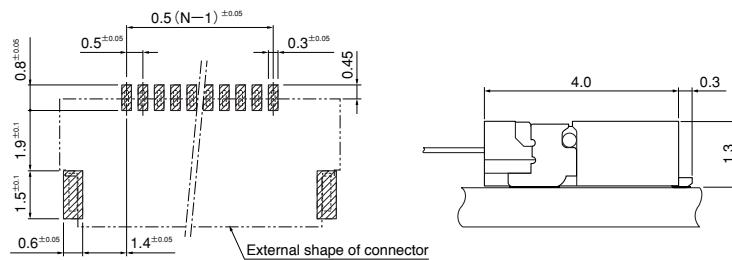
The connector for the 0.3mm thickness FPC with a mounting height of 1.3 mm. FPC with protrusion prevents incomplete insertion and mis-insertion, so that it provides reliable connection.

- A FPC with protrusion improves operability and reliability
- Reliable cover
- Self-lock mechanism enables the cover to close by one-touch operation

Specifications

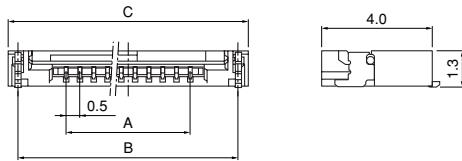
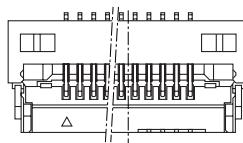
- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
 - Insulation resistance: 800M Ω min.
 - Withstanding voltage: 200V AC/minute
 - Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3±0.03mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



- Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.
3. N --- Number of circuits

Connector



This products listed above are supplied on embossed-tape.

Gold-plated product

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	10FHY-RSM1-GAN-TF	4.5	8.0	8.7	3,000
18	18FHY-RSM1-GAN-TF	8.5	12.0	12.7	3,000
30	30FHY-RSM1-GAN-TF	14.5	18.0	18.7	3,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
 Housing: Heat resisting resin, UL94V-0, natural
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Cover: Heat resisting resin, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Tin-plated product

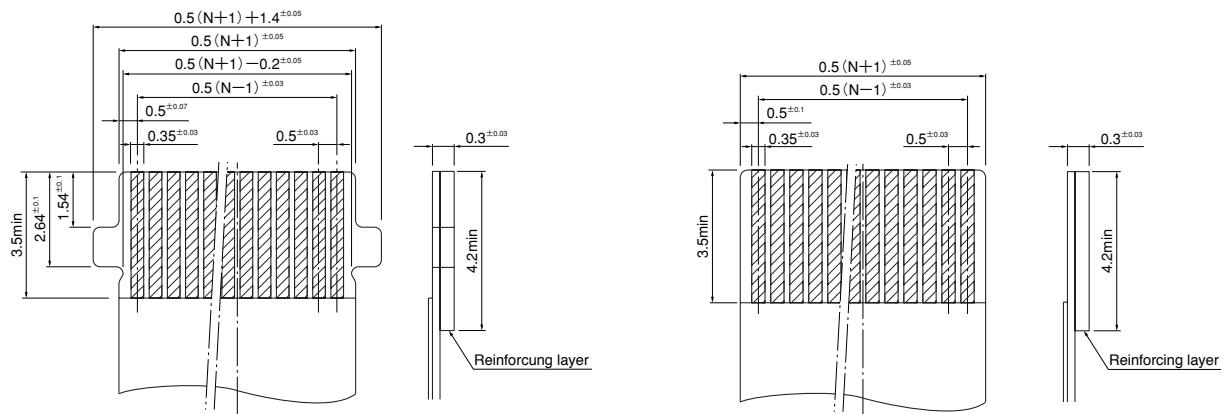
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
40	40FHY-RSM1-TF	19.5	23.0	23.7	3,000
50	50FHY-RSM1-TF	24.5	28.0	28.7	3,000

Material and Finish

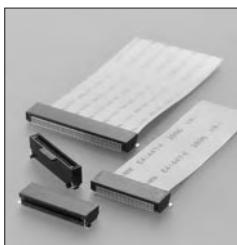
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Housing: Heat resisting resin, UL94V-0, natural
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Cover: Heat resisting resin, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



Note: N --- Number of circuits

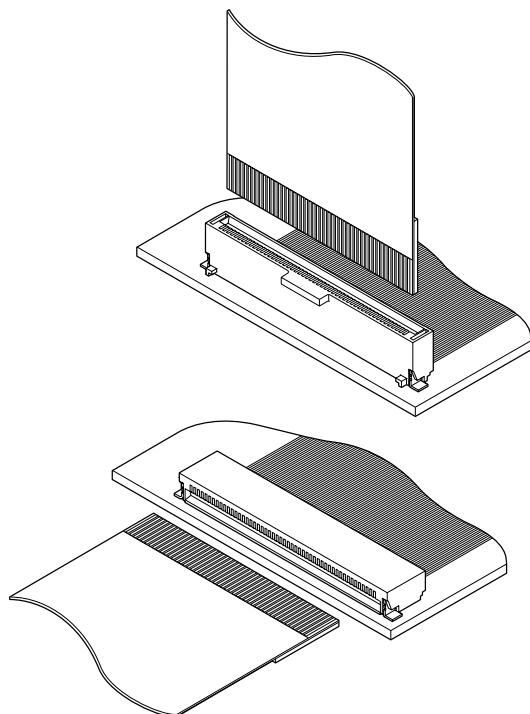


FY CONNECTOR

0.5mm pitch/Connectors for FFC



**NON-ZIF
TYPE**



0.5mm pitch non-ZIF snap-in type FFC connector.

- Heat resisting design suitable for surface mounting
- One-sided contact construction
- Solder tabs
- Embossed tape for automatic mounting

Specifications

- Current rating: 0.3A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/70m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FFC: Conductor pitch/0.5mm
Conductor width/0.3mm
Mating part thickness/0.3±0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

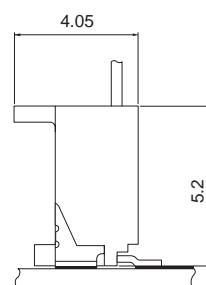
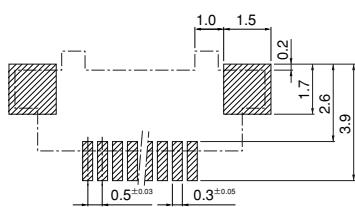
■ Recognized E60389

■ Certified LR20812

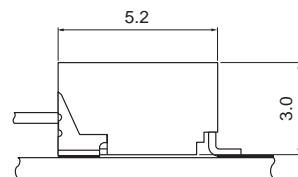
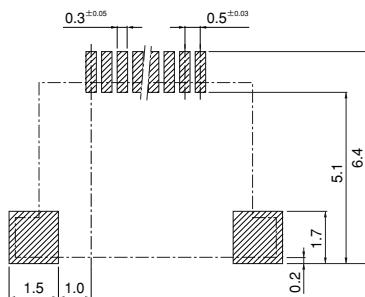
△ R50006970

PC board layout (viewed from component side) and Assembly layout

Top entry type



Side entry type

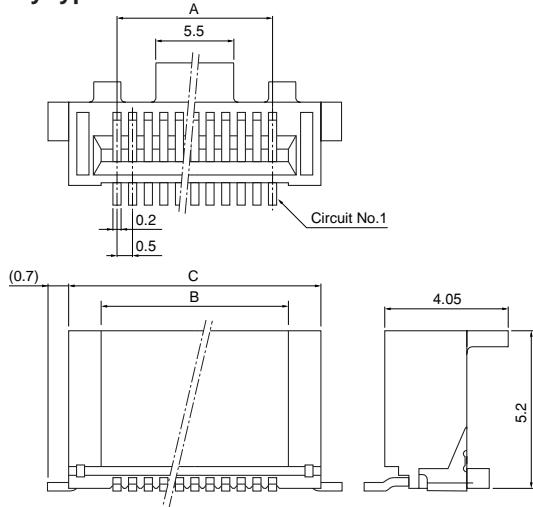


Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.

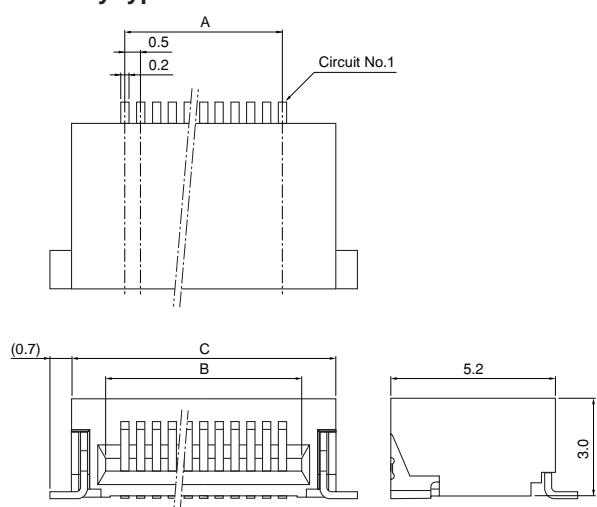
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Top entry type



Side entry type



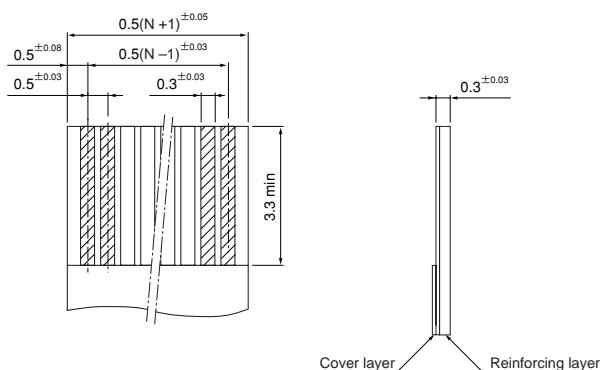
Circuits	Model No.		Dimensions (mm)			Q'ty / reel	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
30	30FY-BMT-TB	30FY-SMT-TF	14.5	15.5	17.7	1,250	2,000
40	40FY-BMT-TB	40FY-SMT-TF	19.5	20.5	22.7	1,250	2,000
50	50FY-BMT-TB	50FY-SMT-TF	24.5	25.5	27.7	1,250	2,000

Material and Finish

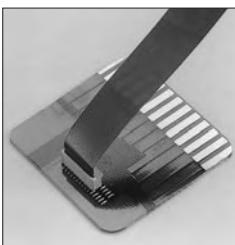
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PPS, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FFC



Note: N --- Number of circuits

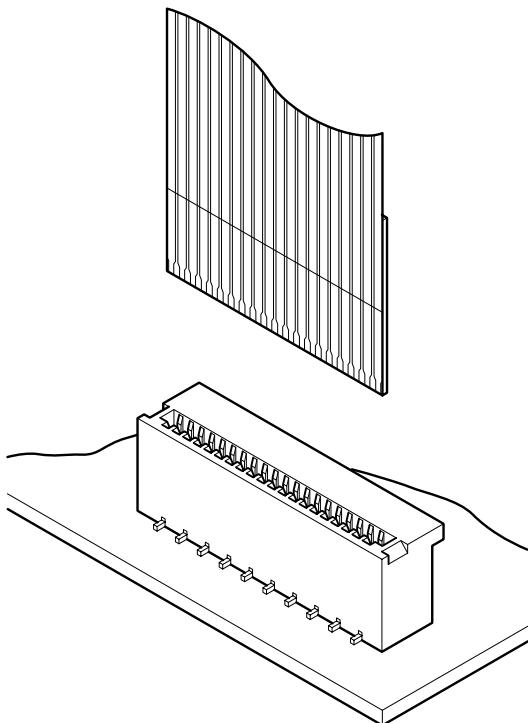


FLT CONNECTOR

0.5mm pitch/Connectors for FPC



NON-ZIF
TYPE



- Heat resisting design suitable for surface mounting
- Staggered surface mount tails
- Embossed tape for automatic mounting
- FPC insertion is easy
- Compact design

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/20m Ω max.
(variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.30±0.05mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

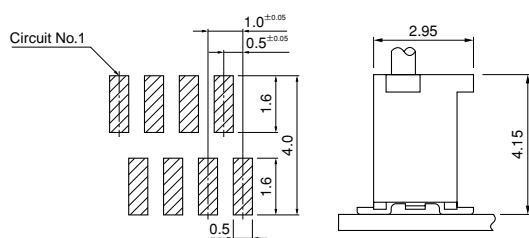
* Contact JST for details.

Standards

■ Recognized E60389

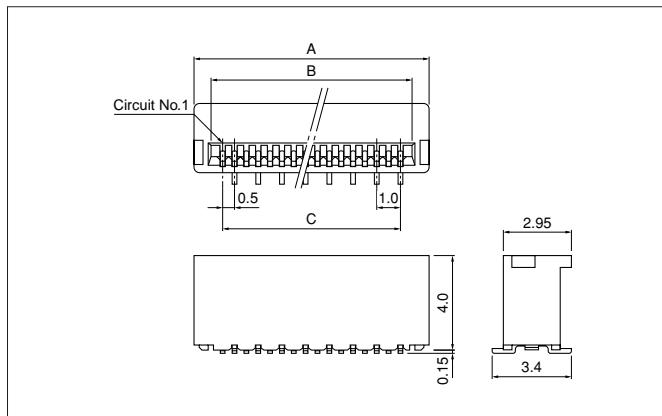
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guide line. Contact JST for details.

Connector



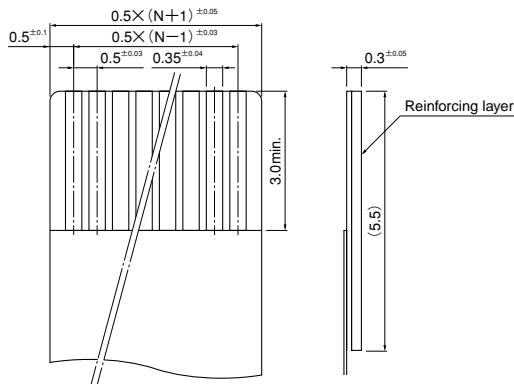
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
6	06FLT-SM2-TB	4.9	3.5	2.5	2,500
8	08FLT-SM2-TB	5.9	4.5	3.5	2,500
10	10FLT-SM2-TB	6.9	5.5	4.5	2,500
12	12FLT-SM2-TB	7.9	6.5	5.5	2,500
14	14FLT-SM2-TB	8.9	7.5	6.5	2,500
16	16FLT-SM2-TB	9.9	8.5	7.5	2,500
18	18FLT-SM2-TB	10.9	9.5	8.5	2,500
20	20FLT-SM2-TB	11.9	10.5	9.5	2,500
22	22FLT-SM2-TB	12.9	11.5	10.5	2,500
24	24FLT-SM2-TB	13.9	12.5	11.5	2,500
26	26FLT-SM2-TB	14.9	13.5	12.5	2,500
28	28FLT-SM2-TB	15.9	14.5	13.5	2,500
30	30FLT-SM2-TB	16.9	15.5	14.5	2,500
32	32FLT-SM2-TB	17.9	16.5	15.5	2,500
40	40FLT-SM2-TB	21.9	20.5	19.5	2,500

Material and Finish

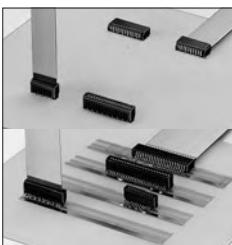
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 6T, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



Note: N --- Number of circuits

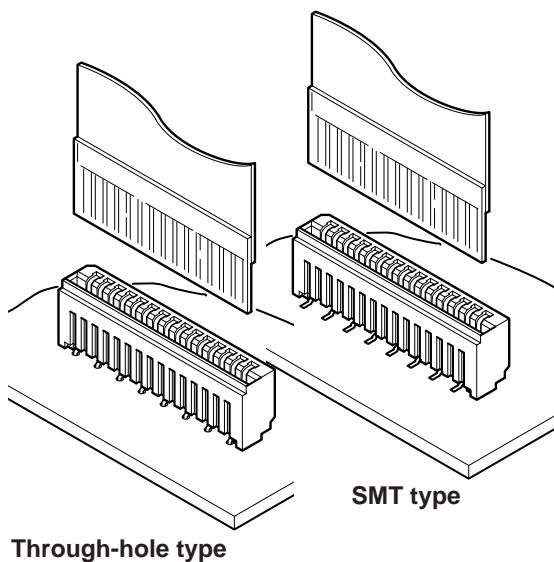


FMN CONNECTOR

1.0mm pitch/Connectors for FFC



NON-ZIF TYPE



Through-hole type

SMT type

- Compact
- Low insertion force
- Both through-hole and SMT types are available
- Embossed tape for automatic mounting

Specifications

- Current rating: 0.5A DC
- Voltage rating: 50V DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30mΩ max.
After environmental testing/50mΩ max.
- Insulation resistance: 500MΩ min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.0mm
Conductor width/0.7mm
Mating part thickness/0.30±0.05mm
- Applicable PC board thickness: 1.6mm

Note: FFC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

■ Recognized E60389

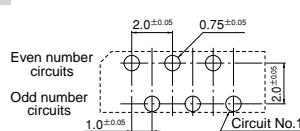
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

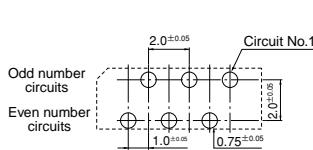
<Through-hole type>

Top entry type

Normal type

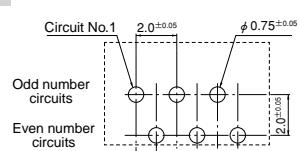


Reverse type

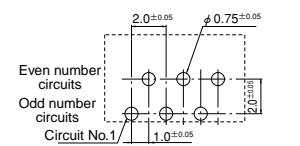


Side entry type

Normal type



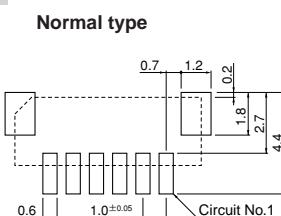
Reverse type



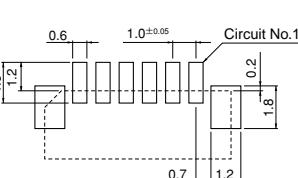
<SMT type>

Top entry type

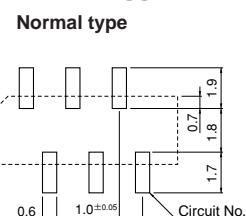
In-line



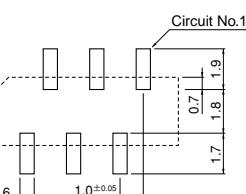
Reverse type



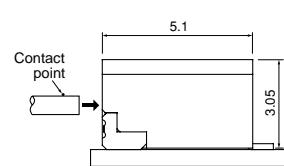
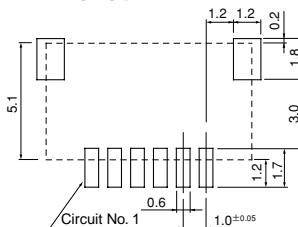
Staggered



Reverse type



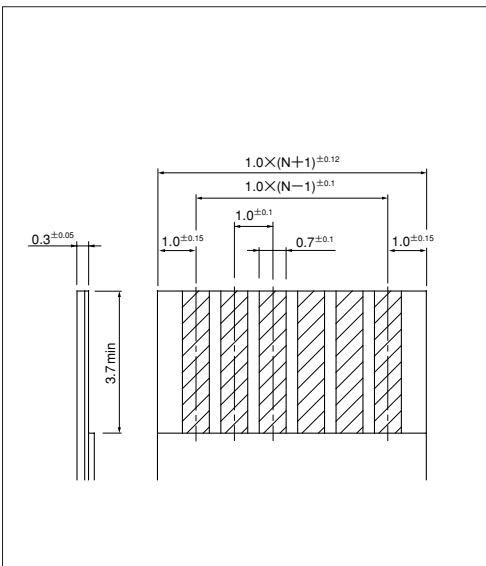
Side entry type



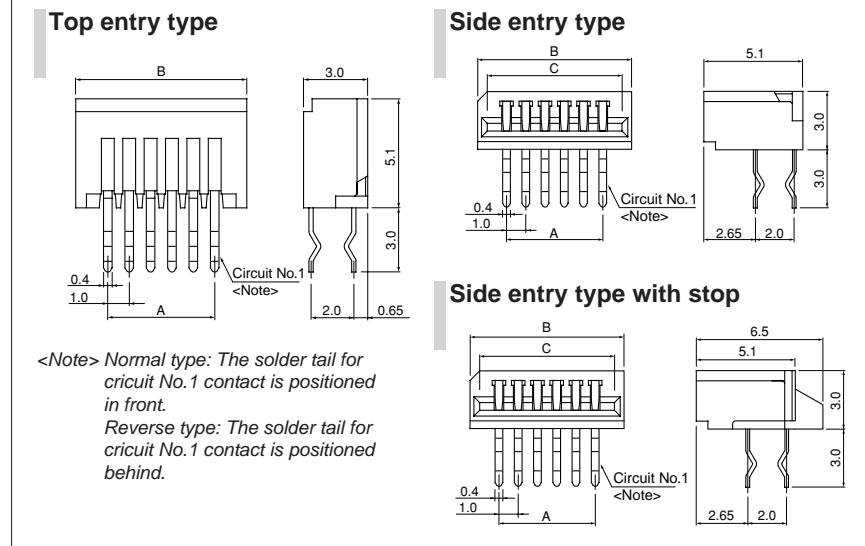
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline.
Contact JST for details.

Lead section dimensions of FFC



Through-hole type Connector



Note: N --- Number of circuits

Circuits	Model No.						Dimensions (mm)			Q'ty / box		
	Top entry type		Side entry type		Side entry type with stop		A	B	C	Top entry type	Side entry type	Side entry type with stop
	Normal type	Reverse type	Normal type	Reverse type	Normal type	Reverse type						
4	04FMN-BTK-A	04FMN-BTRK-A	04FMN-STK-A	04FMN-STRK-A	04FMN-SSTK-A	04FMN-SSTRK-A	3.0	6.0	5.0	3,600	2,160	2,520
5	05FMN-BTK-A	05FMN-BTRK-A	05FMN-STK-A	05FMN-STRK-A	05FMN-SSTK-A	05FMN-SSTRK-A	4.0	7.0	6.0	3,100	1,860	2,170
6	06FMN-BTK-A	06FMN-BTRK-A	06FMN-STK-A	06FMN-STRK-A	06FMN-SSTK-A	06FMN-SSTRK-A	5.0	8.0	7.0	2,700	1,620	1,890
7	07FMN-BTK-A	07FMN-BTRK-A	07FMN-STK-A	07FMN-STRK-A	07FMN-SSTK-A	07FMN-SSTRK-A	6.0	9.0	8.0	2,400	1,440	1,680
8	08FMN-BTK-A	08FMN-BTRK-A	08FMN-STK-A	08FMN-STRK-A	08FMN-SSTK-A	08FMN-SSTRK-A	7.0	10.0	9.0	2,100	1,260	1,470
9	09FMN-BTK-A	09FMN-BTRK-A	09FMN-STK-A	09FMN-STRK-A	09FMN-SSTK-A	09FMN-SSTRK-A	8.0	11.0	10.0	1,900	1,140	1,330
10	10FMN-BTK-A	10FMN-BTRK-A	10FMN-STK-A	10FMN-STRK-A	10FMN-SSTK-A	10FMN-SSTRK-A	9.0	12.0	11.0	1,800	1,080	1,260
11	11FMN-BTK-A	11FMN-BTRK-A	11FMN-STK-A	11FMN-STRK-A	11FMN-SSTK-A	11FMN-SSTRK-A	10.0	13.0	12.0	1,600	960	1,120
12	12FMN-BTK-A	12FMN-BTRK-A	12FMN-STK-A	12FMN-STRK-A	12FMN-SSTK-A	12FMN-SSTRK-A	11.0	14.0	13.0	1,500	900	1,050
13	13FMN-BTK-A	13FMN-BTRK-A	13FMN-STK-A	13FMN-STRK-A	13FMN-SSTK-A	13FMN-SSTRK-A	12.0	15.0	14.0	1,400	840	980
14	14FMN-BTK-A	14FMN-BTRK-A	14FMN-STK-A	14FMN-STRK-A	14FMN-SSTK-A	14FMN-SSTRK-A	13.0	16.0	15.0	1,300	780	910
15	15FMN-BTK-A	15FMN-BTRK-A	15FMN-STK-A	15FMN-STRK-A	15FMN-SSTK-A	15FMN-SSTRK-A	14.0	17.0	16.0	1,200	720	840
16	16FMN-BTK-A	16FMN-BTRK-A	16FMN-STK-A	16FMN-STRK-A	16FMN-SSTK-A	16FMN-SSTRK-A	15.0	18.0	17.0	1,200	720	840
17	17FMN-BTK-A	17FMN-BTRK-A	17FMN-STK-A	17FMN-STRK-A	17FMN-SSTK-A	17FMN-SSTRK-A	16.0	19.0	18.0	1,100	660	770
18	18FMN-BTK-A	18FMN-BTRK-A	18FMN-STK-A	18FMN-STRK-A	18FMN-SSTK-A	18FMN-SSTRK-A	17.0	20.0	19.0	1,000	600	700
19	19FMN-BTK-A	19FMN-BTRK-A	19FMN-STK-A	19FMN-STRK-A	19FMN-SSTK-A	19FMN-SSTRK-A	18.0	21.0	20.0	1,000	600	700
20	20FMN-BTK-A	20FMN-BTRK-A	20FMN-STK-A	20FMN-STRK-A	20FMN-SSTK-A	20FMN-SSTRK-A	19.0	22.0	21.0	900	540	630
21	21FMN-BTK-A	21FMN-BTRK-A	21FMN-STK-A	21FMN-STRK-A	21FMN-SSTK-A	21FMN-SSTRK-A	20.0	23.0	22.0	900	540	630
22	22FMN-BTK-A	22FMN-BTRK-A	22FMN-STK-A	22FMN-STRK-A	22FMN-SSTK-A	22FMN-SSTRK-A	21.0	24.0	23.0	900	540	630
23	23FMN-BTK-A	23FMN-BTRK-A	23FMN-STK-A	23FMN-STRK-A	23FMN-SSTK-A	23FMN-SSTRK-A	22.0	25.0	24.0	800	480	560
24	24FMN-BTK-A	24FMN-BTRK-A	24FMN-STK-A	24FMN-STRK-A	24FMN-SSTK-A	24FMN-SSTRK-A	23.0	26.0	25.0	800	480	560
25	25FMN-BTK-A	25FMN-BTRK-A	25FMN-STK-A	25FMN-STRK-A	25FMN-SSTK-A	25FMN-SSTRK-A	24.0	27.0	26.0	800	480	560
26	26FMN-BTK-A	26FMN-BTRK-A	26FMN-STK-A	26FMN-STRK-A	26FMN-SSTK-A	26FMN-SSTRK-A	25.0	28.0	27.0	700	420	490
27	27FMN-BTK-A	27FMN-BTRK-A	27FMN-STK-A	27FMN-STRK-A	27FMN-SSTK-A	27FMN-SSTRK-A	26.0	29.0	28.0	700	420	490
28	28FMN-BTK-A	28FMN-BTRK-A	28FMN-STK-A	28FMN-STRK-A	28FMN-SSTK-A	28FMN-SSTRK-A	27.0	30.0	29.0	700	420	490
29	29FMN-BTK-A	29FMN-BTRK-A	29FMN-STK-A	29FMN-STRK-A	29FMN-SSTK-A	29FMN-SSTRK-A	28.0	31.0	30.0	700	420	490
30	30FMN-BTK-A	30FMN-BTRK-A	30FMN-STK-A	30FMN-STRK-A	30FMN-SSTK-A	30FMN-SSTRK-A	29.0	32.0	31.0	600	360	420
31	31FMN-BTK-A	31FMN-BTRK-A	31FMN-STK-A	31FMN-STRK-A	31FMN-SSTK-A	31FMN-SSTRK-A	30.0	33.0	32.0	600	360	420
32	32FMN-BTK-A	32FMN-BTRK-A	32FMN-STK-A	32FMN-STRK-A	32FMN-SSTK-A	32FMN-SSTRK-A	31.0	34.0	33.0	600	360	420
33	33FMN-BTK-A	33FMN-BTRK-A	33FMN-STK-A	33FMN-STRK-A	33FMN-SSTK-A	33FMN-SSTRK-A	32.0	35.0	34.0	600	360	420
34	34FMN-BTK-A	34FMN-BTRK-A	34FMN-STK-A	34FMN-STRK-A	34FMN-SSTK-A	34FMN-SSTRK-A	33.0	36.0	35.0	600	360	420
35	35FMN-BTK-A	35FMN-BTRK-A	35FMN-STK-A	35FMN-STRK-A	35FMN-SSTK-A	35FMN-SSTRK-A	34.0	37.0	36.0	500	300	350
36	36FMN-BTK-A	36FMN-BTRK-A	36FMN-STK-A	36FMN-STRK-A	36FMN-SSTK-A	36FMN-SSTRK-A	35.0	38.0	37.0	500	300	350
37	37FMN-BTK-A	37FMN-BTRK-A	37FMN-STK-A	37FMN-STRK-A	37FMN-SSTK-A	37FMN-SSTRK-A	36.0	39.0	38.0	500	300	350
38	38FMN-BTK-A	38FMN-BTRK-A	38FMN-STK-A	38FMN-STRK-A	38FMN-SSTK-A	38FMN-SSTRK-A	37.0	40.0	39.0	500	300	350
39	39FMN-BTK-A	39FMN-BTRK-A	39FMN-STK-A	39FMN-STRK-A	39FMN-SSTK-A	39FMN-SSTRK-A	38.0	41.0	40.0	500	300	350
40	40FMN-BTK-A	40FMN-BTRK-A	40FMN-STK-A	40FMN-STRK-A	40FMN-SSTK-A	40FMN-SSTRK-A	39.0	42.0	41.0	500	300	350

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

Housing: 4 to 22 circuits/PBT, UL94V-0, Normal type...gray Reverse type...brown

23 to 40 circuits/PA 6T, UL94V-0, Normal type...gray Reverse type...black

RoHS compliance This product displays (LF)(SN) on a label.

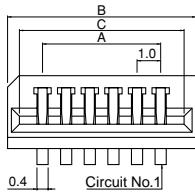
FMN CONNECTOR

SMT type Connector

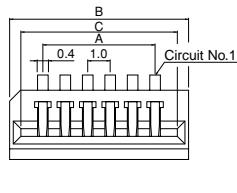
Top entry type

<In-line>

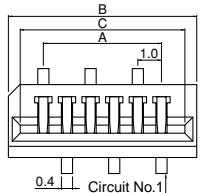
Normal type



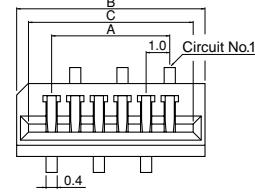
Reverse type



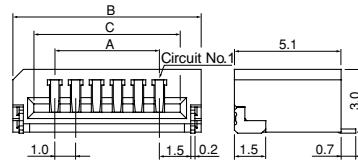
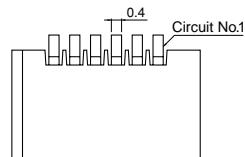
Normal type



Reverse type



Side entry type



Circuits	Model No.				Side entry type	Dimensions (mm)			Q'ty / reel			
	Top entry type					A	B		C	Top entry type	Side entry type	
	Single-row		Staggered				Top entry type	Side entry type				
Normal type	Reverse type	Normal type	Reverse type									
4	04FMN-BMT-A-TF	04FMN-BMTR-A-TB	04FMN-BMTTN-A-TF	04FMN-BMTTR-A-TB	04FMN-SMT-A-TF	3.0	6.0	7.0	5.0	1,000	2,000	
5	05FMN-BMT-A-TF	05FMN-BMTR-A-TB	05FMN-BMTTN-A-TF	05FMN-BMTTR-A-TB	05FMN-SMT-A-TF	4.0	7.0	8.0	6.0	1,000	2,000	
6	06FMN-BMT-A-TF	06FMN-BMTR-A-TB	06FMN-BMTTN-A-TF	06FMN-BMTTR-A-TB	06FMN-SMT-A-TF	5.0	8.0	9.0	7.0	1,000	2,000	
7	07FMN-BMT-A-TF	07FMN-BMTR-A-TB	07FMN-BMTTN-A-TF	07FMN-BMTTR-A-TB	07FMN-SMT-A-TF	6.0	9.0	10.0	8.0	1,000	2,000	
8	08FMN-BMT-A-TF	08FMN-BMTR-A-TB	08FMN-BMTTN-A-TF	08FMN-BMTTR-A-TB	08FMN-SMT-A-TF	7.0	10.0	11.0	9.0	1,000	2,000	
9	09FMN-BMT-A-TF	09FMN-BMTR-A-TB	09FMN-BMTTN-A-TF	09FMN-BMTTR-A-TB	09FMN-SMT-A-TF	8.0	11.0	12.0	10.0	1,000	2,000	
10	10FMN-BMT-A-TF	10FMN-BMTR-A-TB	10FMN-BMTTN-A-TF	10FMN-BMTTR-A-TB	10FMN-SMT-A-TF	9.0	12.0	13.0	11.0	1,000	2,000	
11	11FMN-BMT-A-TF	11FMN-BMTR-A-TB	11FMN-BMTTN-A-TF	11FMN-BMTTR-A-TB	11FMN-SMT-A-TF	10.0	13.0	14.0	12.0	1,000	2,000	
12	12FMN-BMT-A-TF	12FMN-BMTR-A-TB	12FMN-BMTTN-A-TF	12FMN-BMTTR-A-TB	12FMN-SMT-A-TF	11.0	14.0	15.0	13.0	1,000	2,000	
13	13FMN-BMT-A-TF	13FMN-BMTR-A-TB	13FMN-BMTTN-A-TF	13FMN-BMTTR-A-TB	13FMN-SMT-A-TF	12.0	15.0	16.0	14.0	1,000	2,000	
14	14FMN-BMT-A-TF	14FMN-BMTR-A-TB	14FMN-BMTTN-A-TF	14FMN-BMTTR-A-TB	14FMN-SMT-A-TF	13.0	16.0	17.0	15.0	1,000	2,000	
15	15FMN-BMT-A-TF	15FMN-BMTR-A-TB	15FMN-BMTTN-A-TF	15FMN-BMTTR-A-TB	15FMN-SMT-A-TF	14.0	17.0	18.0	16.0	1,000	2,000	
16	16FMN-BMT-A-TF	16FMN-BMTR-A-TB	16FMN-BMTTN-A-TF	16FMN-BMTTR-A-TB	16FMN-SMT-A-TF	15.0	18.0	19.0	17.0	1,000	2,000	
17	17FMN-BMT-A-TF	17FMN-BMTR-A-TB	17FMN-BMTTN-A-TF	17FMN-BMTTR-A-TB	17FMN-SMT-A-TF	16.0	19.0	20.0	18.0	1,000	2,000	
18	18FMN-BMT-A-TF	18FMN-BMTR-A-TB	18FMN-BMTTN-A-TF	18FMN-BMTTR-A-TB	18FMN-SMT-A-TF	17.0	20.0	21.0	19.0	1,000	2,000	
19	19FMN-BMT-A-TF	19FMN-BMTR-A-TB	19FMN-BMTTN-A-TF	19FMN-BMTTR-A-TB	19FMN-SMT-A-TF	18.0	21.0	22.0	20.0	1,000	2,000	
20	20FMN-BMT-A-TF	20FMN-BMTR-A-TB	20FMN-BMTTN-A-TF	20FMN-BMTTR-A-TB	20FMN-SMT-A-TF	19.0	22.0	23.0	21.0	1,000	2,000	
21	21FMN-BMT-A-TF	21FMN-BMTR-A-TB	21FMN-BMTTN-A-TF	21FMN-BMTTR-A-TB	21FMN-SMT-A-TF	20.0	23.0	24.0	22.0	1,000	2,000	
22	22FMN-BMT-A-TF	22FMN-BMTR-A-TB	22FMN-BMTTN-A-TF	22FMN-BMTTR-A-TB	22FMN-SMT-A-TF	21.0	24.0	25.0	23.0	1,000	2,000	
23	23FMN-BMT-A-TF	23FMN-BMTR-A-TB	23FMN-BMTTN-A-TF	23FMN-BMTTR-A-TB	23FMN-SMT-A-TF	22.0	25.0	26.0	24.0	1,000	2,000	
24	24FMN-BMT-A-TF	24FMN-BMTR-A-TB	24FMN-BMTTN-A-TF	24FMN-BMTTR-A-TB	24FMN-SMT-A-TF	23.0	26.0	27.0	25.0	1,000	2,000	
25	25FMN-BMT-A-TF	25FMN-BMTR-A-TB	25FMN-BMTTN-A-TF	25FMN-BMTTR-A-TB	25FMN-SMT-A-TF	24.0	27.0	28.0	26.0	1,000	2,000	
26	26FMN-BMT-A-TF	26FMN-BMTR-A-TB	26FMN-BMTTN-A-TF	26FMN-BMTTR-A-TB	26FMN-SMT-A-TF	25.0	28.0	29.0	27.0	1,000	2,000	
27	27FMN-BMT-A-TF	27FMN-BMTR-A-TB	27FMN-BMTTN-A-TF	27FMN-BMTTR-A-TB	27FMN-SMT-A-TF	26.0	29.0	30.0	28.0	1,000	2,000	
28	28FMN-BMT-A-TF	28FMN-BMTR-A-TB	28FMN-BMTTN-A-TF	28FMN-BMTTR-A-TB	28FMN-SMT-A-TF	27.0	30.0	31.0	29.0	1,000	2,000	
29	29FMN-BMT-A-TF	29FMN-BMTR-A-TB	29FMN-BMTTN-A-TF	29FMN-BMTTR-A-TB	29FMN-SMT-A-TF	28.0	31.0	32.0	30.0	1,000	2,000	
30	30FMN-BMT-A-TF	30FMN-BMTR-A-TB	30FMN-BMTTN-A-TF	30FMN-BMTTR-A-TB	30FMN-SMT-A-TF	29.0	32.0	33.0	31.0	1,000	2,000	
31	31FMN-BMT-A-TF	31FMN-BMTR-A-TB	31FMN-BMTTN-A-TF	31FMN-BMTTR-A-TB	31FMN-SMT-A-TF	30.0	33.0	34.0	32.0	1,000	2,000	
32	32FMN-BMT-A-TF	32FMN-BMTR-A-TB	32FMN-BMTTN-A-TF	32FMN-BMTTR-A-TB	32FMN-SMT-A-TF	31.0	34.0	35.0	33.0	1,000	2,000	
33	33FMN-BMT-A-TF	33FMN-BMTR-A-TB	33FMN-BMTTN-A-TF	33FMN-BMTTR-A-TB	33FMN-SMT-A-TF	32.0	35.0	36.0	34.0	1,000	2,000	
34	34FMN-BMT-A-TF	34FMN-BMTR-A-TB	34FMN-BMTTN-A-TF	34FMN-BMTTR-A-TB	34FMN-SMT-A-TF	33.0	36.0	37.0	35.0	1,000	2,000	
35	35FMN-BMT-A-TF	35FMN-BMTR-A-TB	35FMN-BMTTN-A-TF	35FMN-BMTTR-A-TB	35FMN-SMT-A-TF	34.0	37.0	38.0	36.0	1,000	2,000	
36	36FMN-BMT-A-TF	36FMN-BMTR-A-TB	36FMN-BMTTN-A-TF	36FMN-BMTTR-A-TB	36FMN-SMT-A-TF	35.0	38.0	39.0	37.0	1,000	2,000	
37	37FMN-BMT-A-TF	37FMN-BMTR-A-TB	37FMN-BMTTN-A-TF	37FMN-BMTTR-A-TB	37FMN-SMT-A-TF	36.0	39.0	40.0	38.0	1,000	2,000	
38	38FMN-BMT-A-TF	38FMN-BMTR-A-TB	38FMN-BMTTN-A-TF	38FMN-BMTTR-A-TB	38FMN-SMT-A-TF	37.0	40.0	41.0	39.0	1,000	2,000	
39	39FMN-BMT-A-TF	39FMN-BMTR-A-TB	39FMN-BMTTN-A-TF	39FMN-BMTTR-A-TB	39FMN-SMT-A-TF	38.0	41.0	42.0	40.0	1,000	2,000	
40	40FMN-BMT-A-TF	40FMN-BMTR-A-TB	40FMN-BMTTN-A-TF	40FMN-BMTTR-A-TB	40FMN-SMT-A-TF	39.0	42.0	43.0	41.0	1,000	2,000	

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 6T, UL94V-0, black

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed tape.

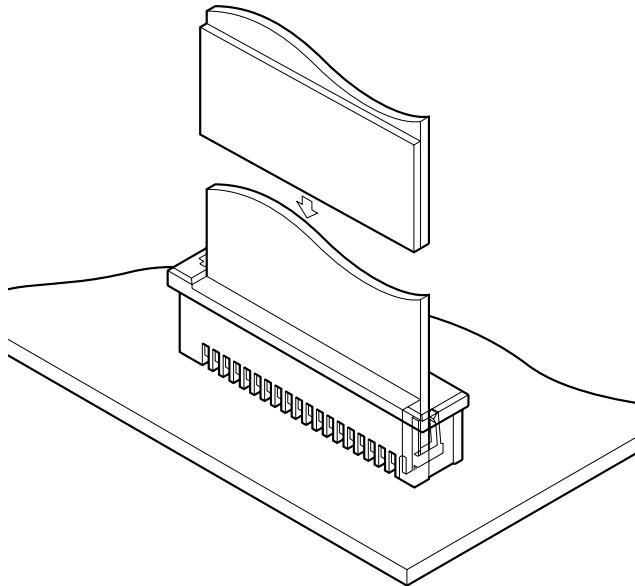
2. Contact JST for the top entry type headers with suction cap.



FMZ CONNECTOR

1.0mm pitch/Connectors for FFC

ZIF
TYPE



The FMZ series, a Zero Insertion Force (ZIF) connector series, was developed to increase wear resistance and extend the connector's mating life. It is a very compact connector with a thickness of only 4.2mm and a pitch of only 1.0mm and is thus useful for high density packaging. The contact has a reliable double-leaf construction which provides stable connection.

- **Zero insertion force mechanism**
- **Temporary retention feature**
- **Compact**
- **Double-leaf contact**

Specifications

- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/20mΩ max.
After environmental testing/30mΩ max.
 - Insulation resistance: 800MΩ min.
 - Withstanding voltage: 500V AC/minute
 - Applicable FFC : Conductor pitch/1.0mm
Conductor width/0.7mm
Mating part thickness/
6 to 10, 12 to 16, 20 circuits:0.30±0.05mm
22, 26, 28, 30 circuits:0.30^{+0.05}₋₀ mm
 - Applicable PC board thickness: 0.8 to 1.6mm
- Note: FFC to be actually used should be checked for applicability.*
- * RoHS compliant products are published.
 - * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 - * Contact JST for details.

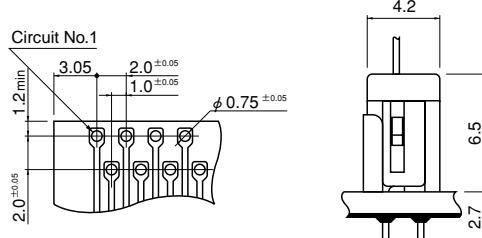
Standards

■ Recognized E60389

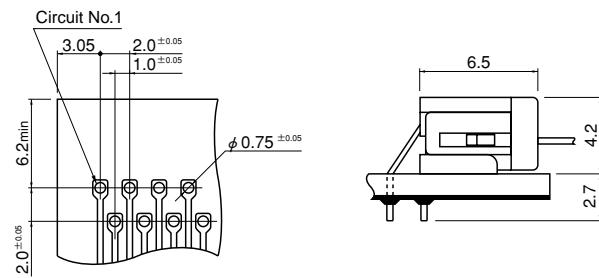
■ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



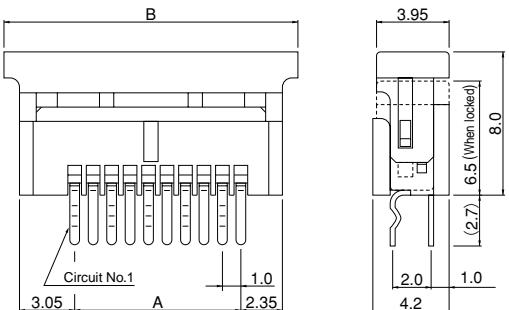
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

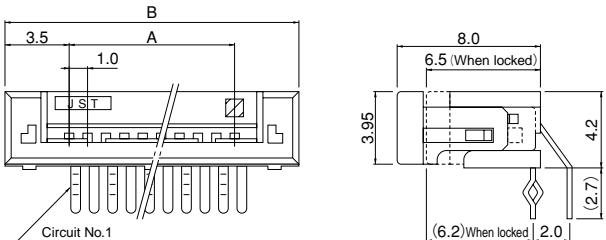
FMZ CONNECTOR

Connector

Top entry type



Side entry type



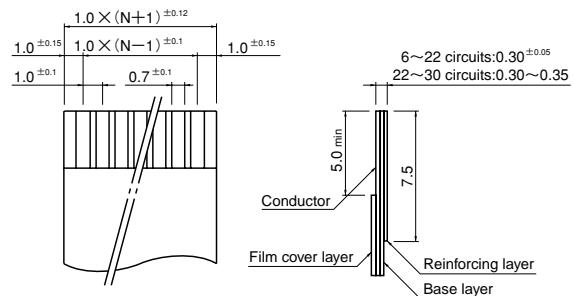
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
6	06FMZ-BT	06FMZ-ST	5.0	12.0	1,440	800
8	08FMZ-BT	08FMZ-ST	7.0	14.0	1,440	800
9	09FMZ-BT	09FMZ-ST	8.0	15.0	960	600
10	10FMZ-BT	10FMZ-ST	9.0	16.0	960	600
12	12FMZ-BT	12FMZ-ST	11.0	18.0	960	600
13	13FMZ-BT	13FMZ-ST	12.0	19.0	960	600
14	14FMZ-BT	14FMZ-ST	13.0	20.0	960	400
15	15FMZ-BT	15FMZ-ST	14.0	21.0	780	400
16	16FMZ-BT	16FMZ-ST	15.0	22.0	780	400
17	17FMZ-BT	17FMZ-ST	16.0	23.0	780	400
20	20FMZ-BT	20FMZ-ST	19.0	26.0	720	400
22	22FMZ-BT	22FMZ-ST	21.0	28.0	720	400
24	—	24FMZ-ST	23.0	30.0	—	300
26	26FMZ-BT	26FMZ-ST	25.0	32.0	480	300
28	28FMZ-BT	28FMZ-ST	27.0	34.0	480	300
30	30FMZ-BT	30FMZ-ST	29.0	36.0	480	300

Material and Finish

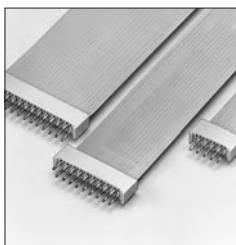
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FFC



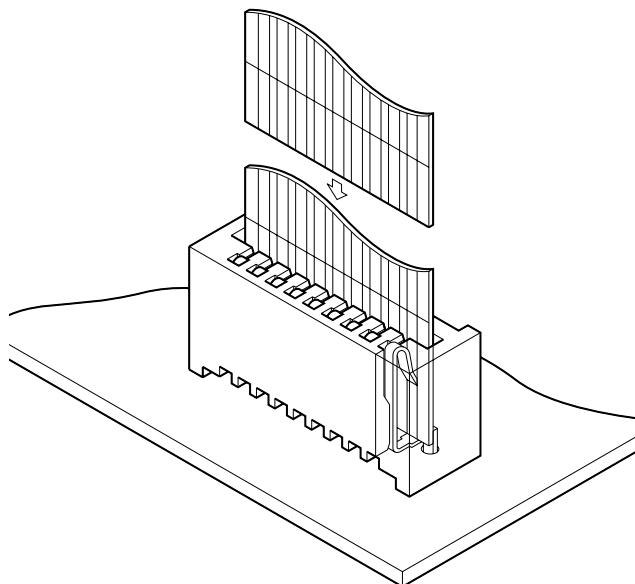
Note: N --- Number of circuits



FE CONNECTOR

1.25mm pitch/Connectors for FFC

NON-ZIF
TYPE



The FE connector ensures easy, secure connection of flexible flat cables (FFC). This compact connector is 4.8mm wide, 7.5mm high, and provides high contact pressure even though little force is required for insertion. The result is smooth insertion and reliable contact performance. The connector is useful in making personal computers, VCRs and car stereo systems smaller and lighter.

- Low insertion force and high contact pressure
- Snap-in connection
- Temporary board retention feature

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 200V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20mΩ max.
After environmental testing/30mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.25mm
Conductor width/0.8mm
Mating part thickness/0.3±0.05mm

Note: FFC to be actually used should be checked for applicability.

- Applicable PC board thickness: 1.2 to 1.6mm

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

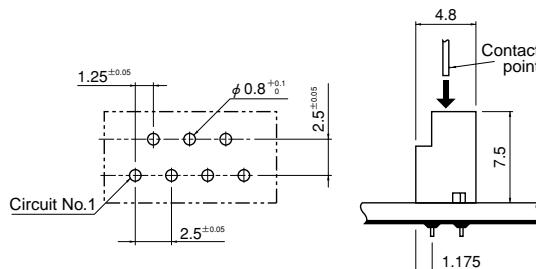
Standards

■ Recognized E60389

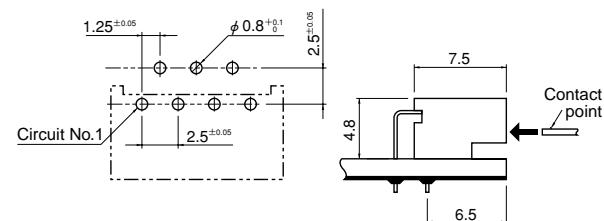
■ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type



Side entry type



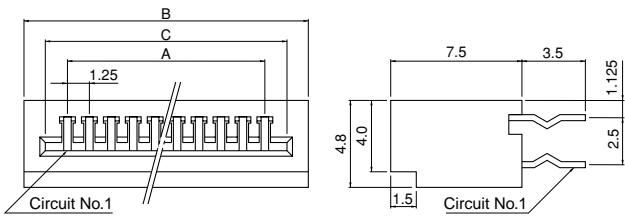
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

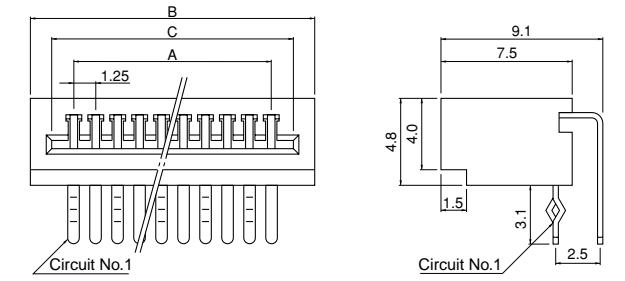
FE CONNECTOR

Connector

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)			Q'ty / box
	Top entry type	Side entry type	A	B	C	
4	04FE-BT-VK-N	04FE-ST-VK-N	3.75	8.55	6.35	2,350
5	05FE-BT-VK-N	05FE-ST-VK-N	5.00	9.80	7.60	2,000
6	06FE-BT-VK-N	06FE-ST-VK-N	6.25	11.05	8.85	1,800
7	07FE-BT-VK-N	07FE-ST-VK-N	7.50	12.30	10.10	1,600
8	08FE-BT-VK-N	08FE-ST-VK-N	8.75	13.55	11.35	1,500
9	09FE-BT-VK-N	09FE-ST-VK-N	10.00	14.80	12.60	1,350
10	10FE-BT-VK-N	10FE-ST-VK-N	11.25	16.05	13.85	1,250
11	11FE-BT-VK-N	11FE-ST-VK-N	12.50	17.30	15.10	1,150
12	12FE-BT-VK-N	12FE-ST-VK-N	13.75	18.55	16.35	1,100
13	13FE-BT-VK-N	13FE-ST-VK-N	15.00	19.80	17.60	1,000
14	14FE-BT-VK-N	14FE-ST-VK-N	16.25	21.05	18.85	950
15	15FE-BT-VK-N	15FE-ST-VK-N	17.50	22.30	20.10	900
16	16FE-BT-VK-N	16FE-ST-VK-N	18.75	23.55	21.35	850
17	17FE-BT-VK-N	17FE-ST-VK-N	20.00	24.80	22.60	800
18	18FE-BT-VK-N	18FE-ST-VK-N	21.25	26.05	23.85	750
19	19FE-BT-VK-N	19FE-ST-VK-N	22.50	27.30	25.10	700
20	20FE-BT-VK-N	20FE-ST-VK-N	23.75	28.55	26.35	700
21	21FE-BT-VK-N	21FE-ST-VK-N	25.00	29.80	27.60	650
22	22FE-BT-VK-N	22FE-ST-VK-N	26.25	31.05	28.85	650
23	23FE-BT-VK-N	23FE-ST-VK-N	27.50	32.30	30.10	600
24	24FE-BT-VK-N	24FE-ST-VK-N	28.75	33.55	31.35	600
25	25FE-BT-VK-N	25FE-ST-VK-N	30.00	34.80	32.60	550
26	26FE-BT-VK-N	26FE-ST-VK-N	31.25	36.05	33.85	550
27	27FE-BT-VK-N	27FE-ST-VK-N	32.50	37.30	35.10	500
28	28FE-BT-VK-N	28FE-ST-VK-N	33.75	38.55	36.35	500
29	29FE-BT-VK-N	29FE-ST-VK-N	35.00	39.80	37.60	500
30	30FE-BT-VK-N	30FE-ST-VK-N	36.25	41.05	38.85	450
31	31FE-BT-VK-N	31FE-ST-VK-N	37.50	42.30	40.10	450
32	32FE-BT-VK-N	32FE-ST-VK-N	38.75	43.55	41.35	450
33	33FE-BT-VK-N	33FE-ST-VK-N	40.00	44.80	42.60	450
34	34FE-BT-VK-N	34FE-ST-VK-N	41.25	46.05	43.85	400
35	35FE-BT-VK-N	35FE-ST-VK-N	42.50	47.30	45.10	400
36	36FE-BT-VK-N	36FE-ST-VK-N	43.75	48.55	46.35	400
37	37FE-BT-VK-N	37FE-ST-VK-N	45.00	49.80	47.60	400
38	38FE-BT-VK-N	38FE-ST-VK-N	46.25	51.05	48.85	350
39	39FE-BT-VK-N	39FE-ST-VK-N	47.50	52.30	50.10	350
40	40FE-BT-VK-N	40FE-ST-VK-N	48.75	53.55	51.35	350
						210

Material and Finish

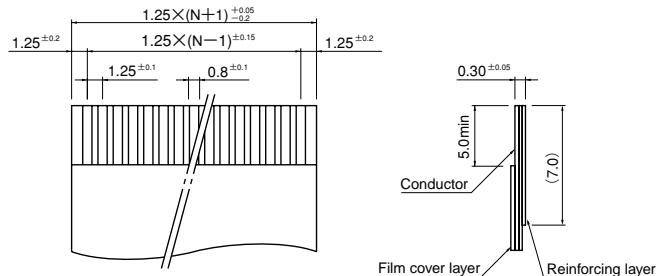
Contact: Copper alloy, tin-plated (reflow treatment)

Housing: PBT, UL94V-0, white

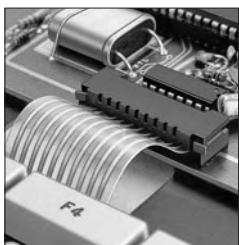
RoHS compliance

Note: 33 to 40 circuits products are not UL/CSA approved.

Lead section dimensions of FFC



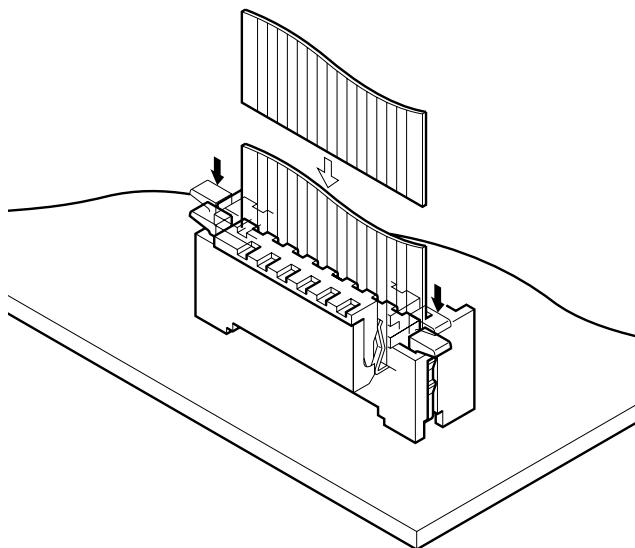
Note: N --- Number of circuits



FDZ CONNECTOR

2.54mm pitch/Connectors for FPC and membrane switch leads

**ZIF
TYPE**



The FDZ connector, a Zero Insertion Force (ZIF) connector, was developed to connect FPC and membrane switch leads. This combination of features allows greater freedom in internal wiring designs. No force is required to insert the leads. Once inserted, the leads are securely held and locked by moving the slide. The contact is double-sided to ensure greater reliability.

- Double-sided contact
- Zero insertion force and locking mechanism
- Temporary board retention feature
- Boss for polarity identification
- Flux is not a problem

Specifications

- Current rating: Tin-plated copper foil lead/1.0A AC, DC
Silver paste carbon-printed lead/50mA AC, DC
 - Voltage rating: 250V AC, DC
 - Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: <Tin-plated copper foil lead>
Initial value/30m Ω max.
After environmental testing/50m Ω max.
<Silver paste carbon-printed lead>
Initial value/10 Ω max.
After environmental testing/15 Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 1,200V AC/minute
 - Applicable FPC and membrane switch lead:
 - Conductor pitch/2.54mm
 - Conductor width/1.3mm
 - Mating part thickness/125 micron
 - Applicable PC board thickness: 1.6mm
- Note: FPC to be actually used should be checked for applicability.*
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

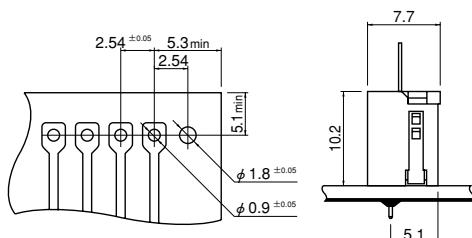
Standards

■ Recognized E60389

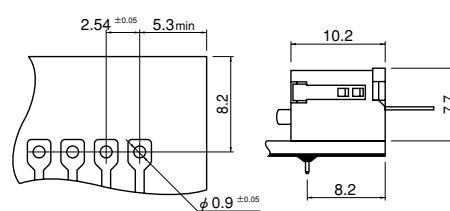
■ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



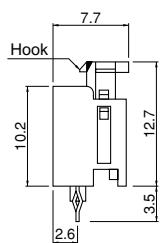
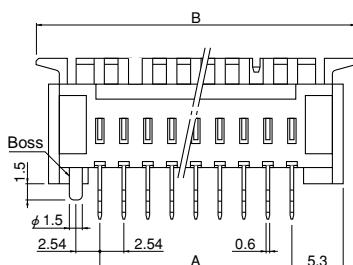
Note: 1. Tolerances are non-cumulative: ± 0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

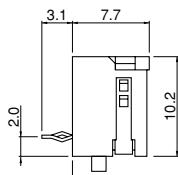
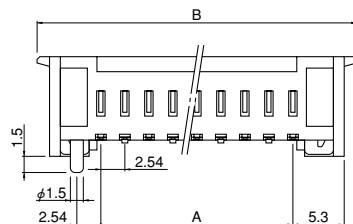
FDZ CONNECTOR

Connector

Top entry type (Before slide lock)



Side entry type (After slide lock)



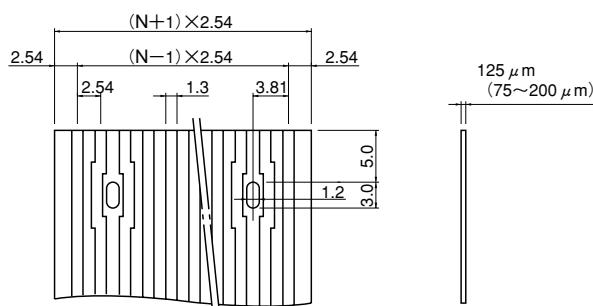
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type	Side entry type	A	B	
5	05FDZ-BT(S)	05FDZ-ST(S)	10.16	23.56	100
6	06FDZ-BT(S)	06FDZ-ST(S)	12.70	26.10	100
8	08FDZ-BT(S)	08FDZ-ST(S)	17.78	31.18	100
9	09FDZ-BT(S)	09FDZ-ST(S)	20.32	33.72	100
10	10FDZ-BT(S)	10FDZ-ST(S)	22.86	36.26	100
11	11FDZ-BT(S)	11FDZ-ST(S)	25.40	38.80	50
12	12FDZ-BT(S)	12FDZ-ST(S)	27.94	41.34	50
13	13FDZ-BT(S)	13FDZ-ST(S)	30.48	43.88	50
17	17FDZ-BT(S)	17FDZ-ST(S)	40.64	54.04	50
19	19FDZ-BT(S)	—	45.72	59.12	50

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: 19FDZ-BT(S) is not UL/CSA approved.

Lead section dimensions of FPC



Note: N --- Number of circuits

1

-F

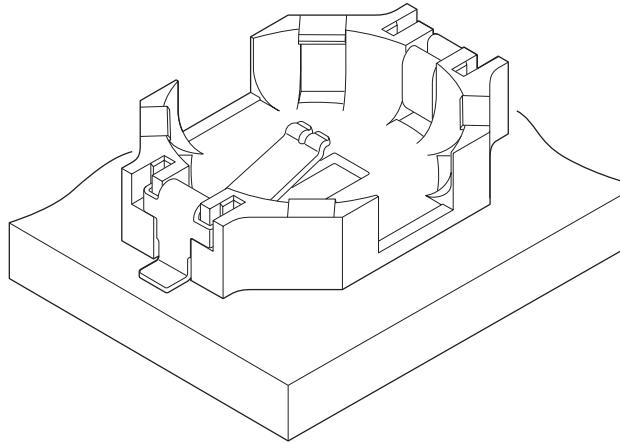
Others

TABLE OF CONTENTS

PB CONNECTOR.....	234
AYU1 CONNECTOR (Frequency from DC to 12GHz).....	236
AYU3 CONNECTOR (Frequency up to 6GHz).....	239



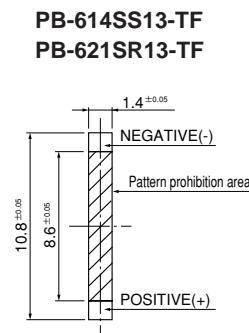
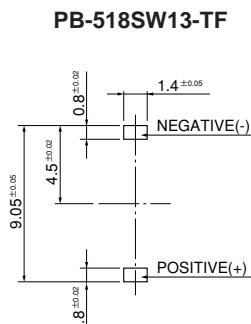
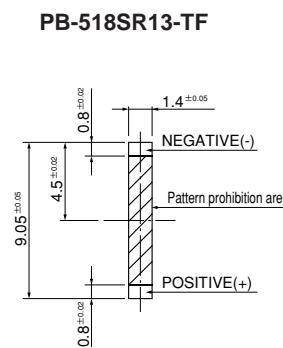
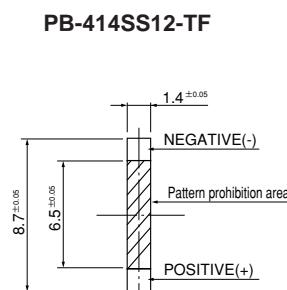
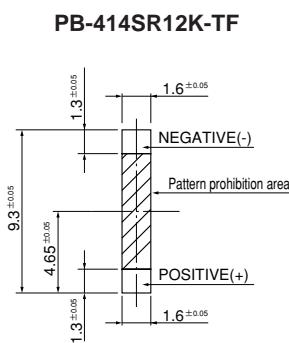
PB CONNECTOR



Connector for button batteries used in the compact mobile equipment such as mobile phones. Mounting cost will be reduced by using this connector in place of manual soldering. And, button batteries can be more easily disassembled after use for recycling's sake.

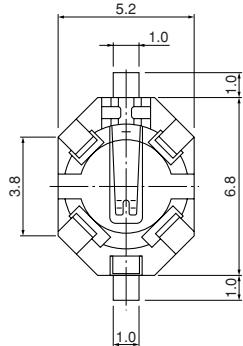
- Resistant to the shock
- Double contact point

PC board layout (viewed from component side)



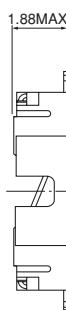
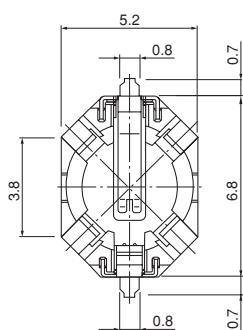
Connector

414 type

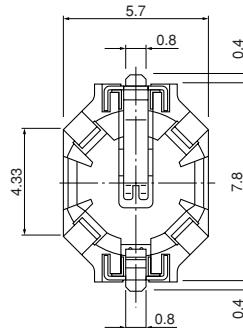


*The dimension should be measured from housing bottom surface.

414 type/low profile

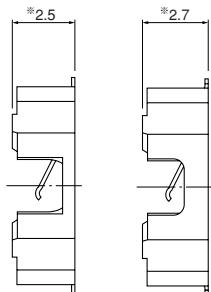


518 type

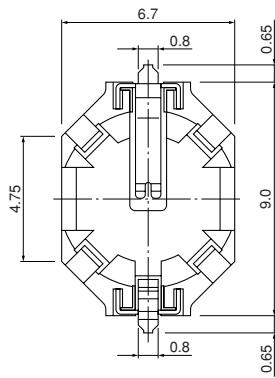


*The dimension should be measured from housing bottom surface.

bottom overed

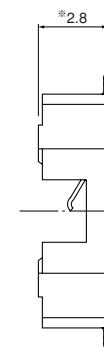
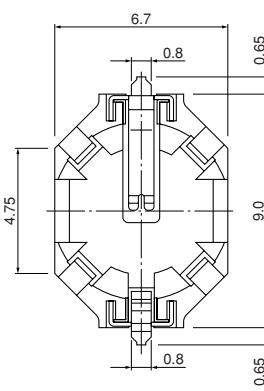


614 type



*The dimension should be measured from housing bottom surface.

621 type



*The dimension should be measured from housing bottom surface.

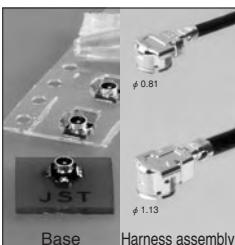
Type	Holder part	Model No.	Q'ty/ reel
414	Resin hook	PB-414SR12K-TF	3,000
414/low profile type	Resin hook	PB-414SS12-TF	3,000
518	Resin hook	PB-518SR13-TF	2,000
518/bottom covered	Resin hook	PB-518SW13-TF	2,000
614	Resin hook	PB-614SS13-TF	2,000
621	Resin hook	PB-621SR13-TF	2,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

Housing: Glass-filled LCP, UL94V-0, natural (ivory), black (414 type)

Holder contact: Copper alloy, nickel-undercoated, gold-plated (614 type with metal hook)

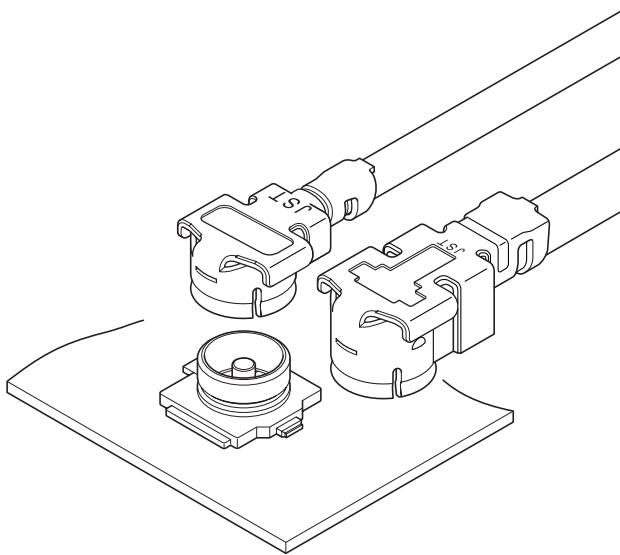


AYU1 CONNECTOR

Co-axial connector



Frequency from DC to 12GHz



This is SMT type, space saving and co-axial connector, corresponding to notebook PC, thinner and lighter telecommunications apparatus, etc.

[Application]

UWB, WiMAX, Wireless LAN, Bluetooth, DSRC, Mobile phones, PDA, GPS, Express, etc.

- This connector can also be applicable the frequency of 12GHz or more.
- Space saving and low profile design
- Easy mating and unmating connector
- Adopting extra fine diameter high frequency cable

Specifications

- Impedance: 50 Ω
- Frequency range: DC to 12GHz
- Voltage standing wave ratio (V.S.W.R.)

	Cable type	DC to 3GHz	3 to 6GHz	6 to 12GHz
Harness	φ 0.81 (Single shield SA)	1.3max.	1.3max.	1.4max.
	φ 1.13 (Double shields TA)	1.3max.	1.4max.	1.4max.
	Base	1.3max.	1.4max.	1.5max.

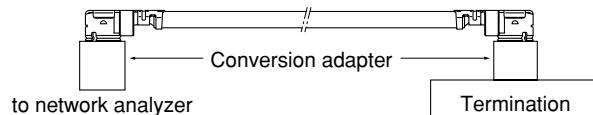
- Insertion loss (dB/m)

	Cable type	3GHz	6GHz	12GHz
Harness	φ 0.81 (Single shield SA)	5.8	9.4	14.9
	φ 1.13 (Double shields TA)	2.9	4.1	6.1
	Base	—	—	—

Note: The specified values in above tables were measured by network analyzer as shown in the figure below.

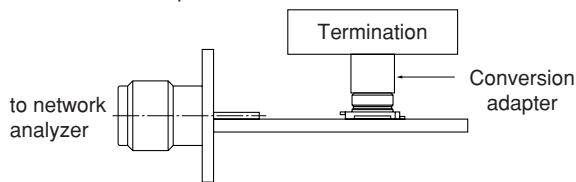
[Harness]

Harness: Both end harness assembly with harness of 5,000mm
SMA conversion adapter: AYU1-AP-PP



[Base]

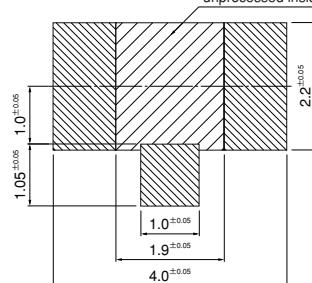
Base: AYU1-1P-02676-120
SMA conversion adapter: AYU1-AP-JJ



- Temperature range: - 25°C to + 85°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 200V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

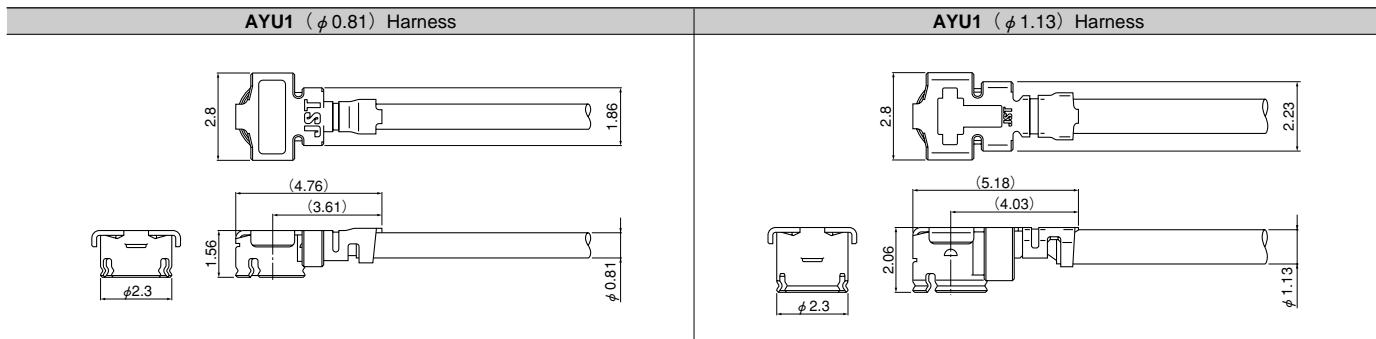
PC board layout (viewed from component side)

PC board should remain unprocessed inside of the patterns.



Note: Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above are our recommendation value.

Socket (Harness assembly)



Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
 Housing: Thermoplastic resin, UL94V-0
 Shell: Copper alloy, copper-undercoated, silver-plated

Harness specifications

Cable type (Specifications for outer diameter and outer conductor)	Overall length L	
	Harness model No. (Single end harness)	
$\phi 0.81$ (Single shielded, SA)	AYU1-1S21-SYYYY-ZZZV (LF)	
$\phi 1.13$ (Double shielded, TA)	AYU1-1S13-SYYYY-ZZZV (LF)	

Note 1) Type of outer conductor SA: Silver-plated annealed copper wire, TA: Tin-plated annealed copper wire

Note 2) The following alphabet and number shall be put in the model No.

X...alphabet denotes cable end treatment (D: Both end harness/same direction, R: Both end harness/reverse direction)

Y...number denotes harness length

Z...number denotes strip length

V...alphabet denotes color identification (Blank: Black, G: Gray, W: White, B: Blue)

Example 1... $\phi 1.13\text{mm}$ (double shielded, TA) cable, connector end processing: both end harness (same direction), harness length: 251mm, wire color: black
 Model No.: AYU1-1S13-D0251-000(LF)

Example 2... $\phi 0.81\text{mm}$ (single shielded, SA) cable, connector end processing: single end harness, harness length: 800mm,
 strip length: [inner conductor 2.0mm, insulator 1.0mm, outer conductor 3.0mm], wire color: white
 Model No.: AYU1-1S21-S0800-213W(LF)

Note 3) Contact JST for details about overall length and connector end processing.

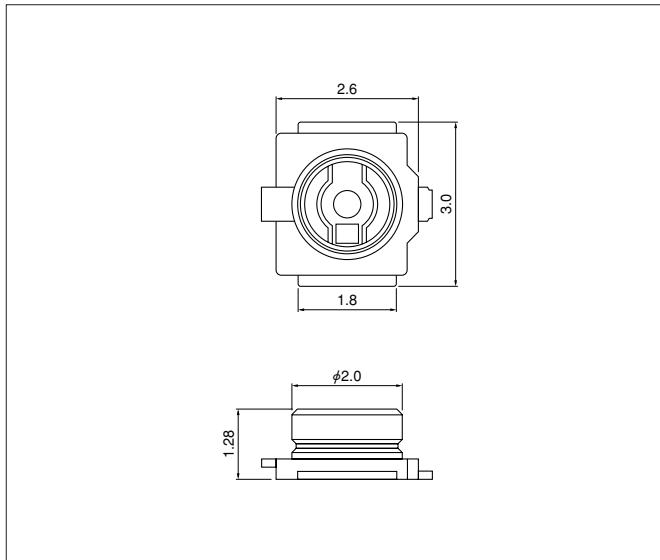
Harness overall length standard tolerance

Overall length L (mm)	Standard tolerance (mm)
$35 \leq L \leq 200$	± 4
$200 < L \leq 500$	± 8
$500 < L \leq 1000$	± 12
$1000 <$	$\pm 1.5\%$

Note: The shortest length L=35mm

AYU1 CONNECTOR

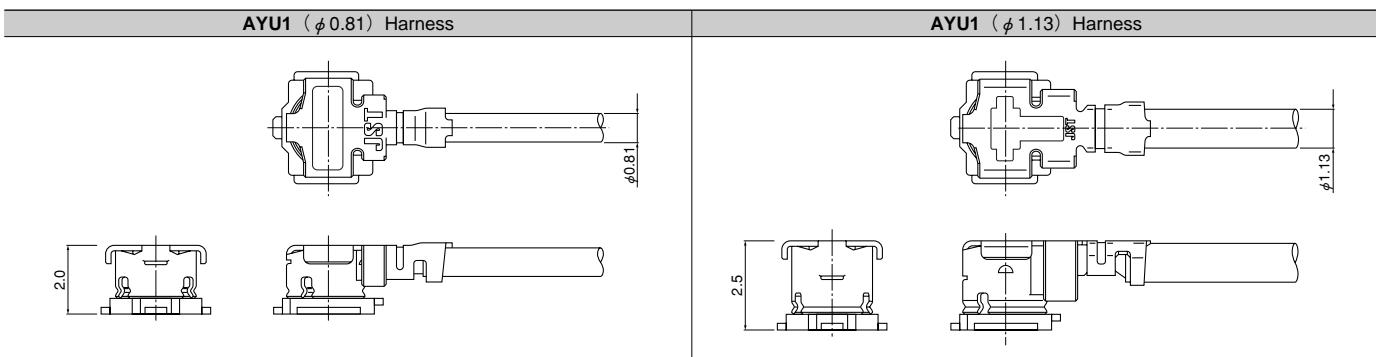
Base



Model No.	Material and Finish	Q'ty / reel
AYU1-1P-02676-120	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Heat resisting resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated	5,000

RoHS compliance

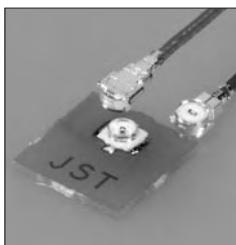
Assembly layout



Insertion and extraction jig

Model No.: EJ-AYU1



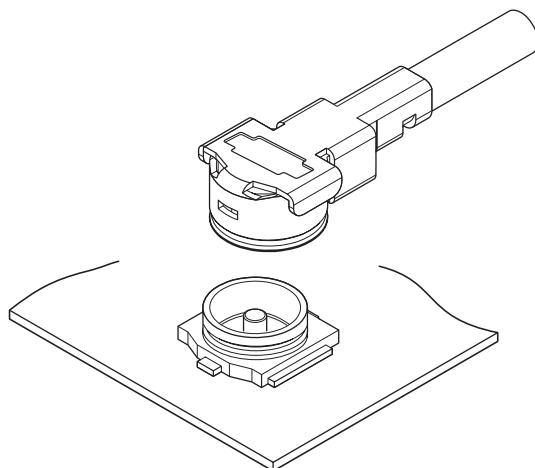


AYU3 CONNECTOR

Co-axial connector



Frequency up to 6GHz



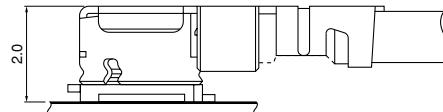
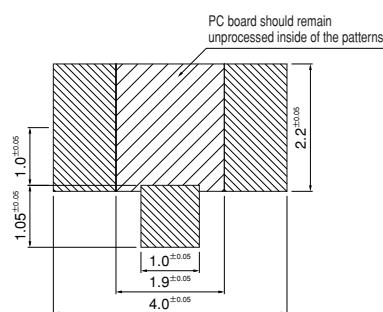
Miniaturized coaxial connector that responds to miniaturized telecommunications apparatus.

- Space saving design
- High performance of electrical feature
- Embossed taping for automatic mounting

Specifications

- Characteristic impedance: 50Ω
- Frequency range: 0.045MHz to 6GHz
- Voltage standing wave ratio: 1.3 max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 200V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

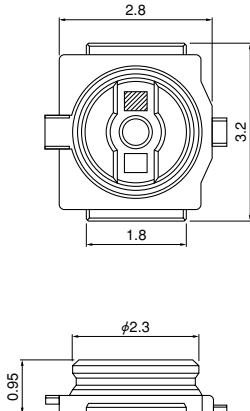
PC board layout (viewed from component side) and Assembly layout



Note: Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers. The dimensions above should serve as a guideline. Contact JST for details.

AYU3 CONNECTOR

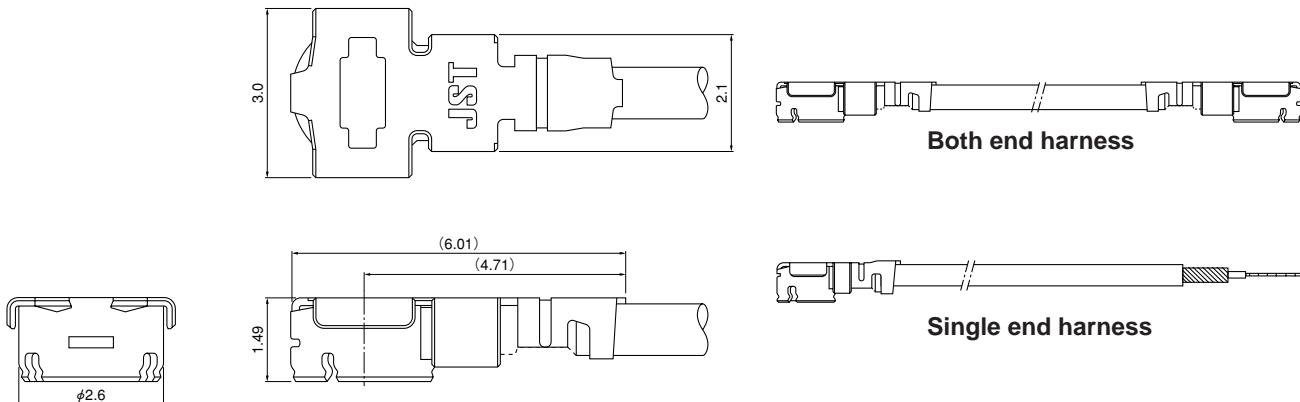
Base



Model No.	Material and Finish	Q'ty / reel
AYU3-1P-02271-120	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Heat resisting resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated	3,000

RoHS compliance

Socket (Harness assembly)



Model No.	Material and Finish
AYU3-1S26-XYYYY-000V(Both end harness)	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0
AYU3-1S26-SYYYY-ZZZV (Single end harness)	Shell: Copper alloy, copper-undercoated, silver-plated

Note: 1. Contact JST for RoHS compliance of harness assembly.

2. The following alphabet and number shall be put in the model No.

X...alphabet denotes cable end treatment

Y...number denotes harness length

Z...number denotes strip length

V...alphabet denotes color identification

Example 1...Cable end treatment: both end harness, harness length: 251mm, wire color: yellow

Model No.: AYU3-1S26-D0251-000Y

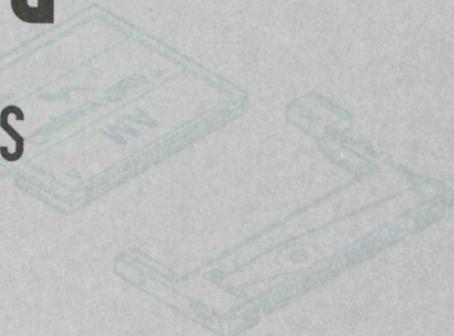
Example 2...Cable end treatment: single end harness, harness length: 200mm, strip length: [conductor 2.0mm, dielectric 1.0mm, braided 1.0mm], wire color: red

Model No.: AYU3-1S26-S0200-211R

3. Contact JST for details about overall length and cable and treatment.

1-G

Card Connectors



Specifications

- CF card CONNECTOR MA type.....242
- SCK CONNECTOR257
- SCS CONNECTOR.....259
- SCX CONNECTOR.....260
- SD CONNECTOR.....261
- SDK CONNECTOR.....262

TABLE OF CONTENTS

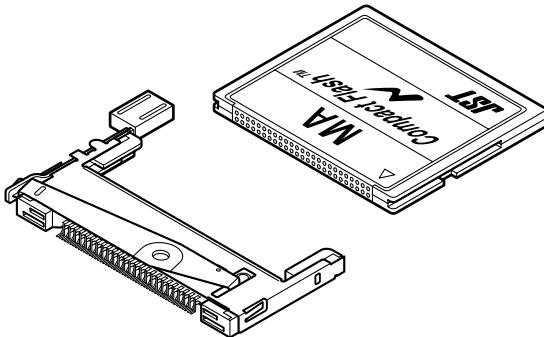
• 1.27mm pitch	CF card CONNECTOR MA type.....242
• 2.54mm pitch	SCK CONNECTOR257
•	SCS CONNECTOR.....259
•	SCX CONNECTOR.....260
•	SD CONNECTOR.....261
•	SDK CONNECTOR.....262

For Type I card
Reverse Type
Normal Type
Normal Type
Normal Type



CF CARD CONNECTOR MA Type

1.27mm pitch/50-circuit CF card connector



- **Socket / Dual-row straddle type, SMT type**
- **Card frame / for type I cards**
- **Adapter / for type I, II cards**
- **Header / for type I, II cards**
- **Ejector / for type I, II cards**

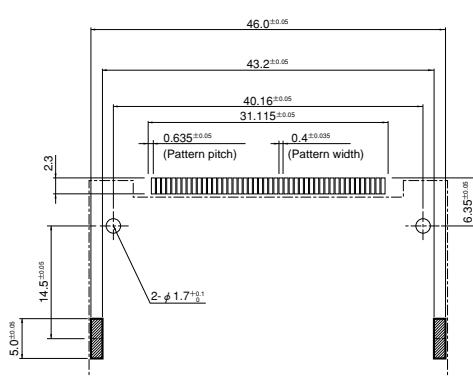
Specifications

- Pitch: 1.27mm
 - Type: Dual-row at mating section
 - Current rating: 0.5A AC, DC/line
 - Temperature range: -20°C to +60°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/40m Ω max.
After environmental testing/20m Ωmax.
(variation from initial value)
 - Insulation resistance: 1,000M Ωmin. 500V DC (Except for Adapter cards)
 - Withstanding voltage: 500V AC/minute (Except for Adapter cards)
 - Mating/unmating life: 10,000 cycles
 - Conforms to CFA.
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

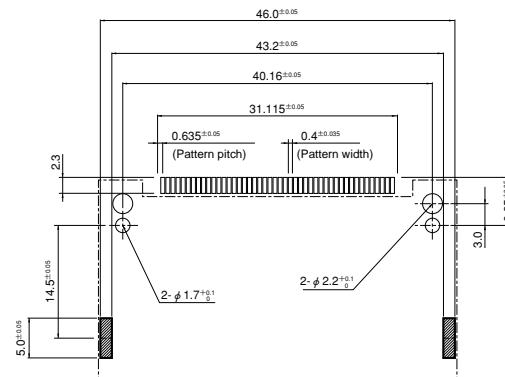
In addition to the connectors applicable to CF type I cards, those for CF type II cards are also available.

PC board layout (viewed from component side)

For Type I cards/Stand off 0mm
Normal type/Reverse type



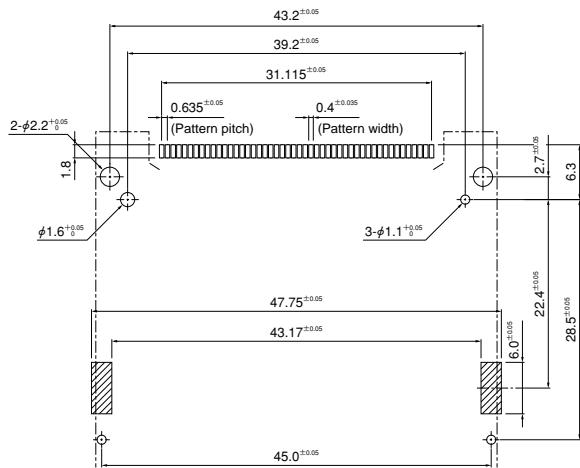
For Type I cards/Stand off 1.64mm
Normal type/Reverse type



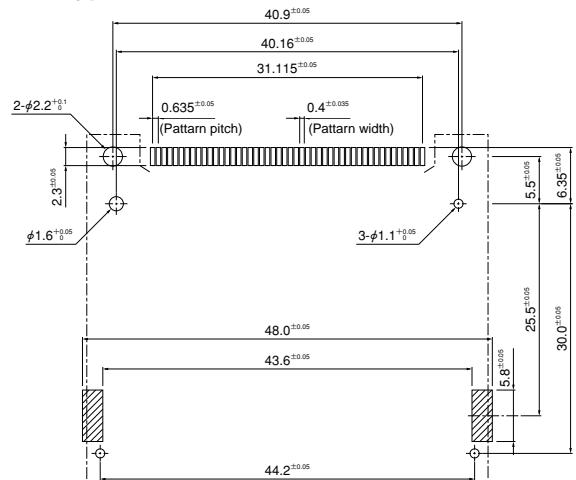
CF CARD CONNECTOR MA Type

For Type II cards/Stand off 0mm

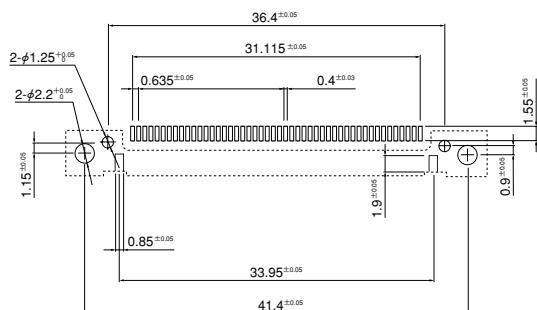
Normal type



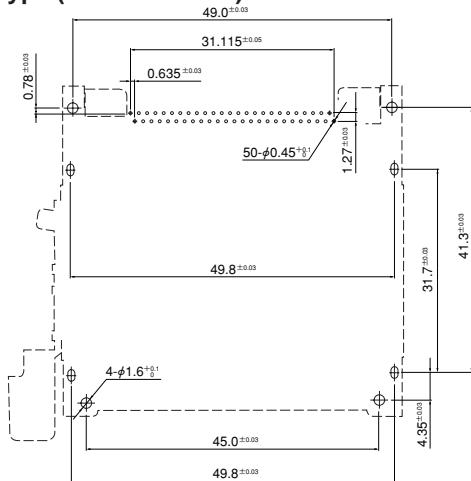
Reverse type



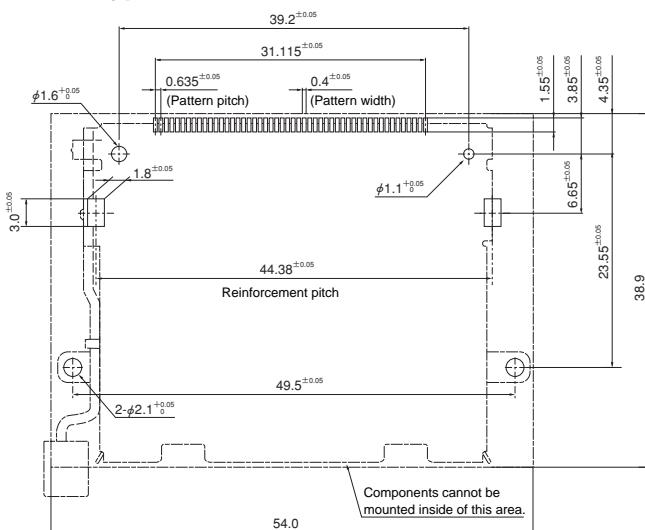
Space-saving type For Type I cards/Stand off 0mm
Normal type/ Reverse type



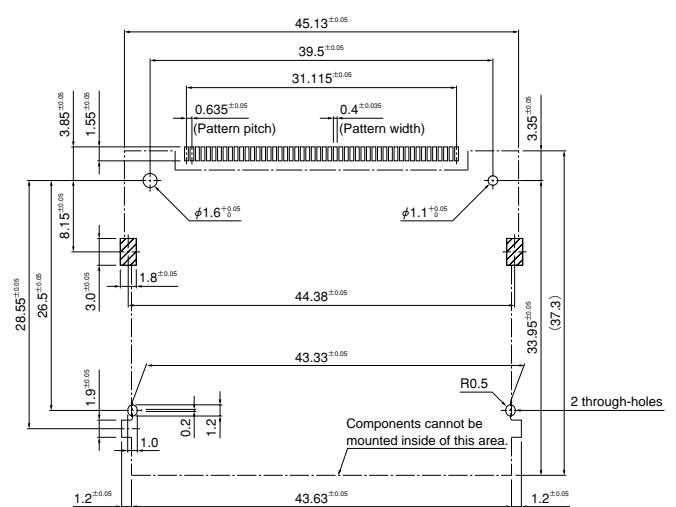
Ejector mounted header with shutter For Type II cards
Reverse type (Stand off 0mm)



Space-saving type For Type II cards/Stand off 0mm
Normal type



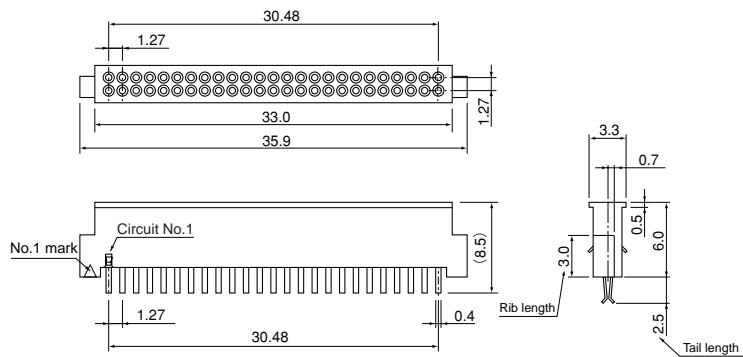
Reverse type



CF CARD CONNECTOR MA Type

Socket

Dual-row straddle type

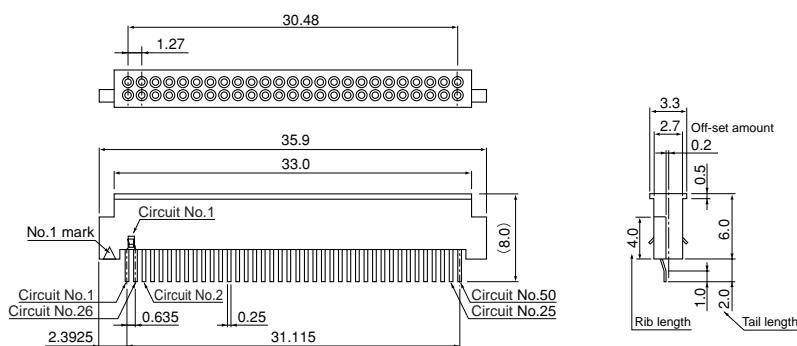


Circuits	Solder tail	Grounding spring	Off-set dimension	Rib length (mm)	Tail length (mm)	Model No.	Q'ty/box	Material and Finish
50	Dual-row straddle type	With (Circuit No.1, No.26)	Center	3.0mm	2.5mm	ICM-MA50S-TS12-3032	600	Contact: Copper-alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Grounding spring: Copper alloy nickel-undercoated, gold-plated Housing: LCP, UL94V-0, black

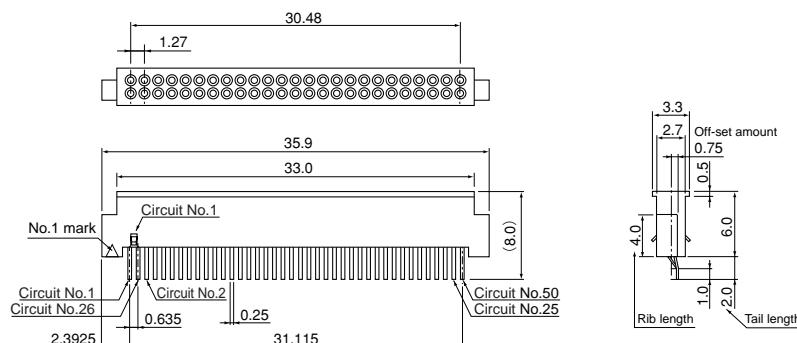
RoHS compliance This product displays (LF)(SN) on a label.

SMT type

ICM-MA50S-TS12-3021



ICM-MA50S-TS12-3022

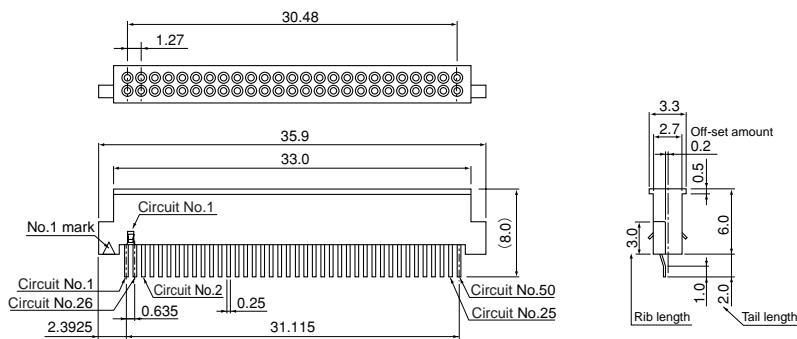


CF CARD CONNECTOR MA Type

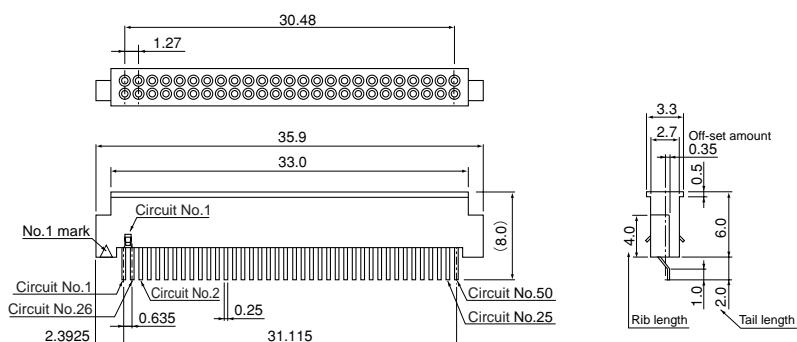
Socket

SMT type

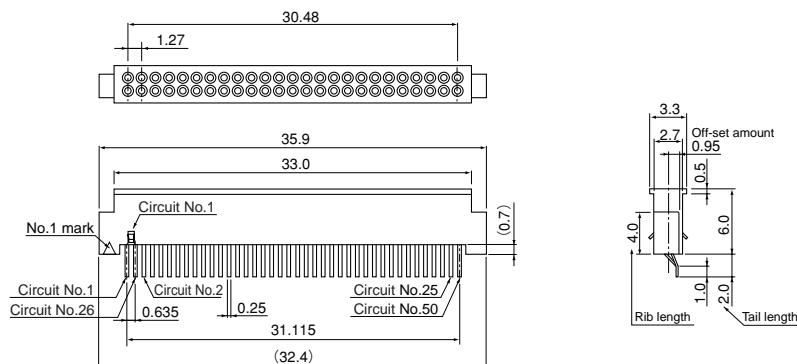
ICM-MA50S-TS12-3023



ICM-MA50S-TS12-3024



ICM-MA50S-TS12-3026



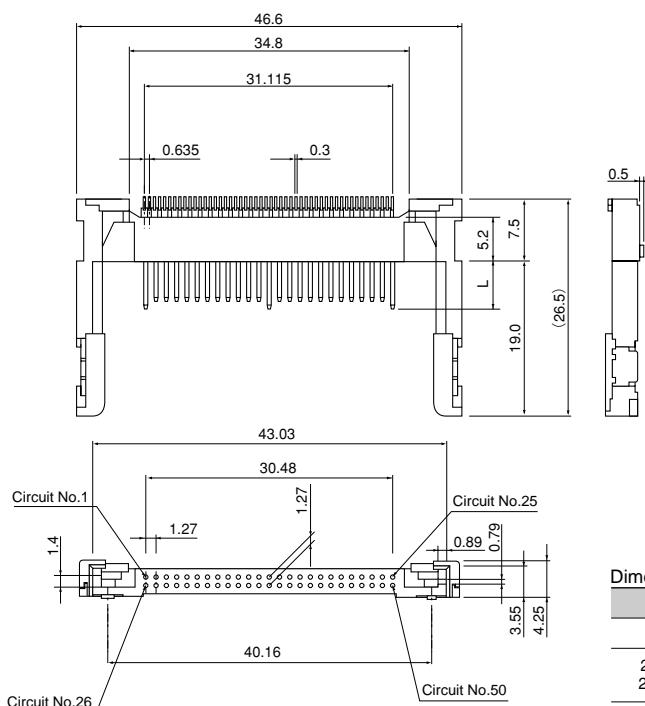
Circuits	Solder tail	Grounding spring	Off-set dimension (mm)	Rib length (mm)	Tail length (mm)	Model No.	Q'ty/reel	Material and Finish
50	SMT type	With (Circuit No.1, No.26)	0.2mm	4.0mm	2.0mm	ICM-MA50S-TS12-3021T	1,500	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
			0.75mm	4.0mm	2.0mm	ICM-MA50S-TS12-3022T	1,500	
			0.2mm	3.0mm	2.0mm	ICM-MA50S-TS12-3023T	1,500	
			0.35mm	4.0mm	2.0mm	ICM-MA50S-TS12-3024T	1,500	
			0.95mm	4.0mm	2.0mm	ICM-MA50S-TS12-3026T	1,500	Grounding spring: Copper alloy, nickel-undercoated, gold-plated Housing: LCP, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type I cards)

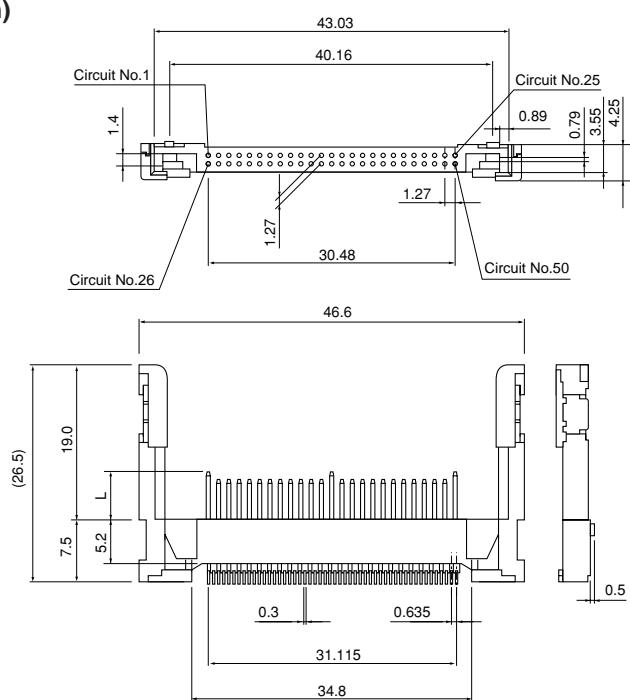
Normal type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

Reverse type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

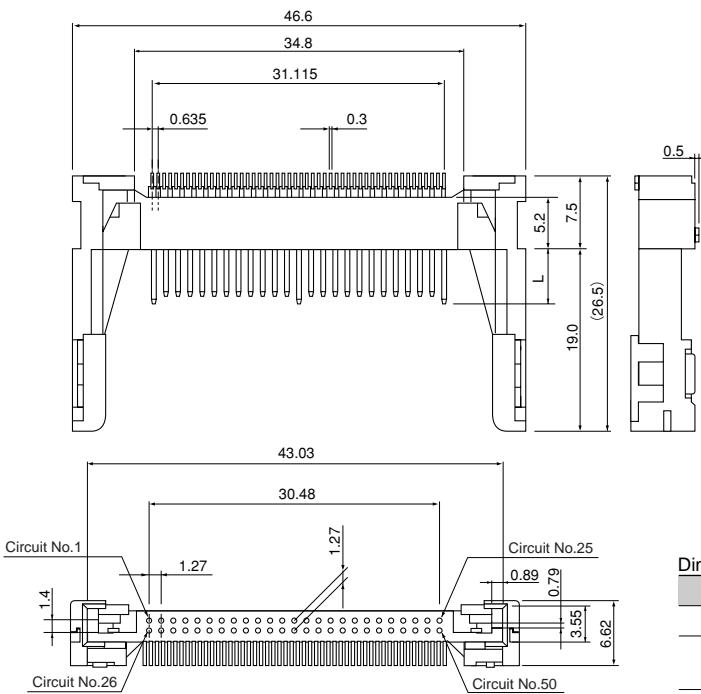
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA50H-SS52-1151	180	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
	Reverse	ICM-MA50H-SS52-1171	180	Solder tail: tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type I cards)

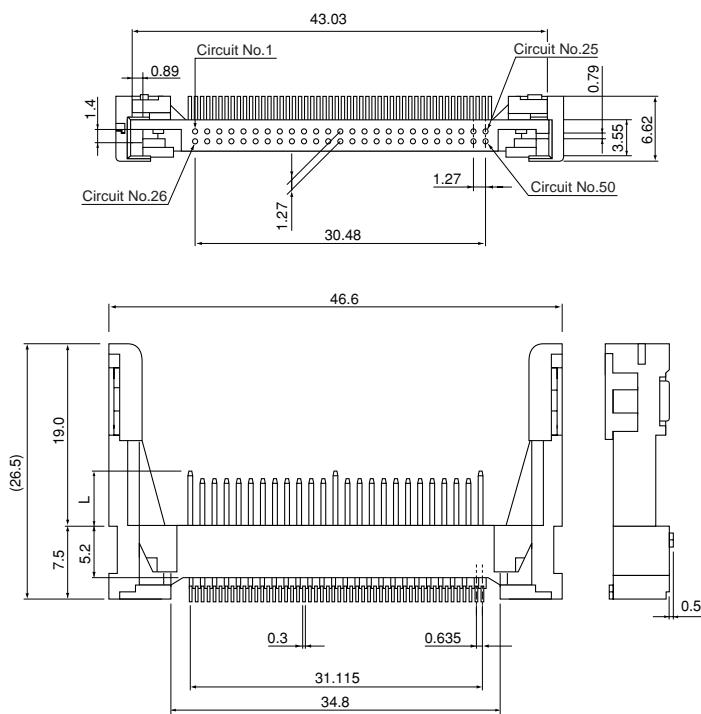
Normal type (Stand off 1.64mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

Reverse type (Stand off 1.64mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

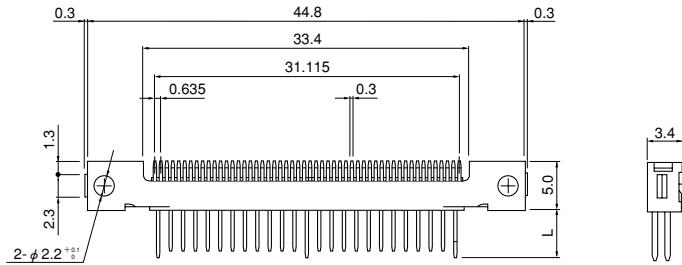
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA50H-SS52-1141	140	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Housing: PPS, UL94V-0 Solder tail: tin-plated (reflow treatment)
	Reverse	ICM-MA50H-SS52-1161	140	Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type I cards) / Space-saving type

**Normal , Reverse types
(Stand off 0mm)**



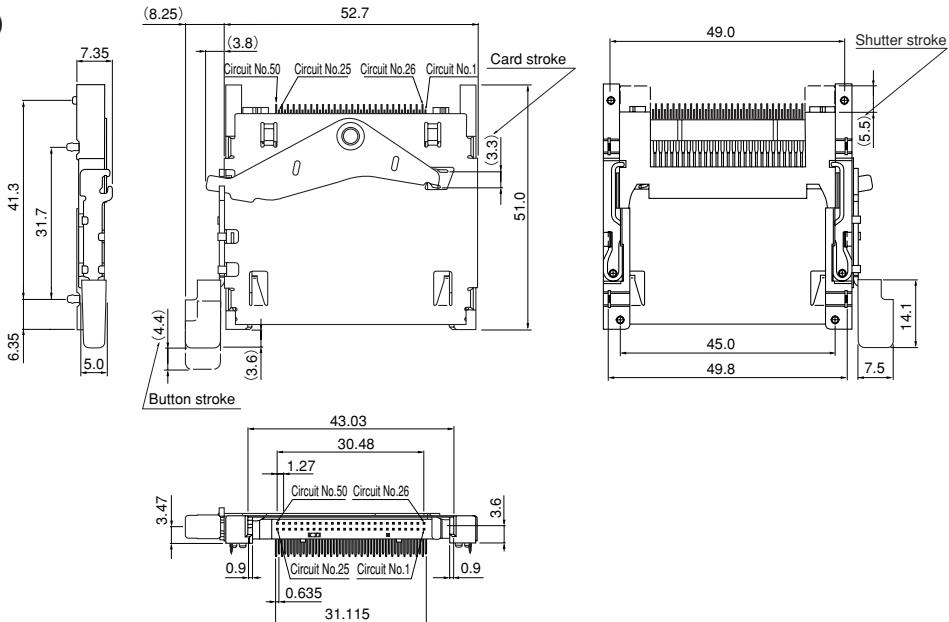
Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal Reverse	ICM-MA50H-SS52-1184	1,850	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0, black Solder tab: Copper alloy, nickel-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Ejector mounted header with shutter (for Type II cards)

**Reverse type
(Stand off 0mm)**



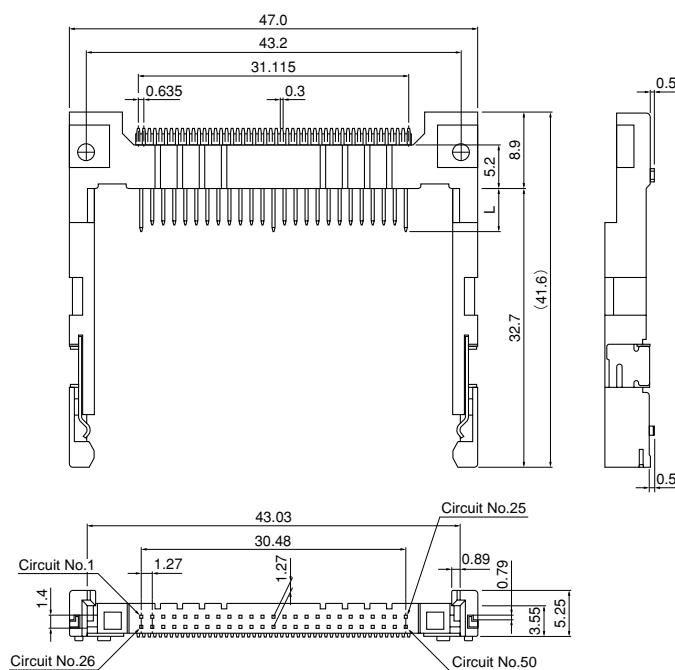
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Reverse	ICM-MA2SL-SD12-RL31	128	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing/ Guide bar/ Push button: PPS, UL94V-0, black Lock/ Rotation arm/ Push bar: Stainless Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type II cards)

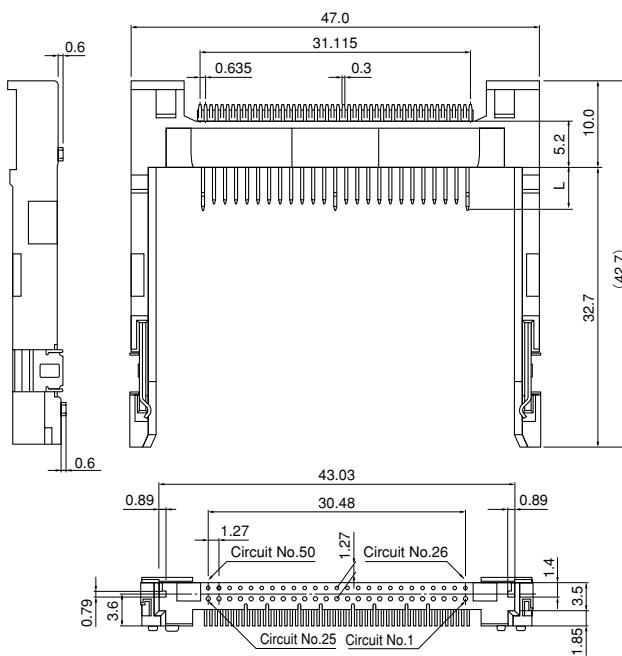
Normal type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

Reverse type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

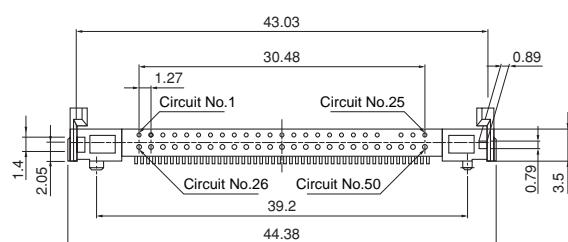
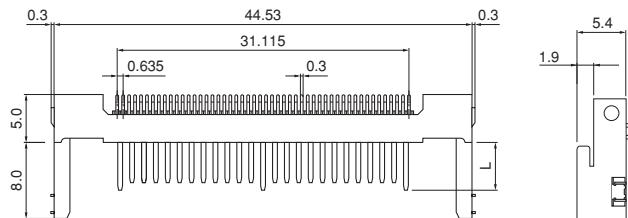
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA2H-SS52-N11B	84	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Housing: PPS, UL94V-0, black Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
	Reverse	ICM-MA2H-SS52-R21A	84	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Housing: LCP, UL94V-0, black Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type II cards) / Space-saving type

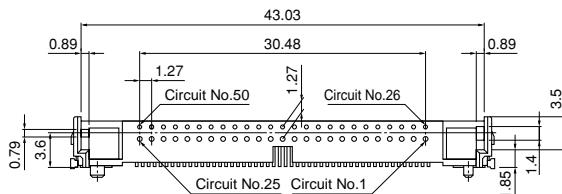
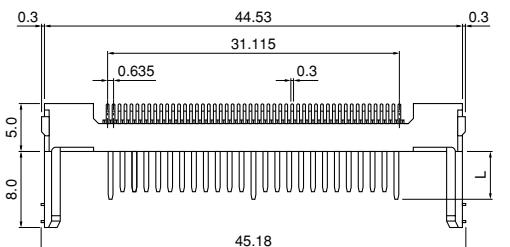
**Normal type
(Stand off 0mm)**



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

**Reverse type
(Stand off 0mm)**



Dimension L

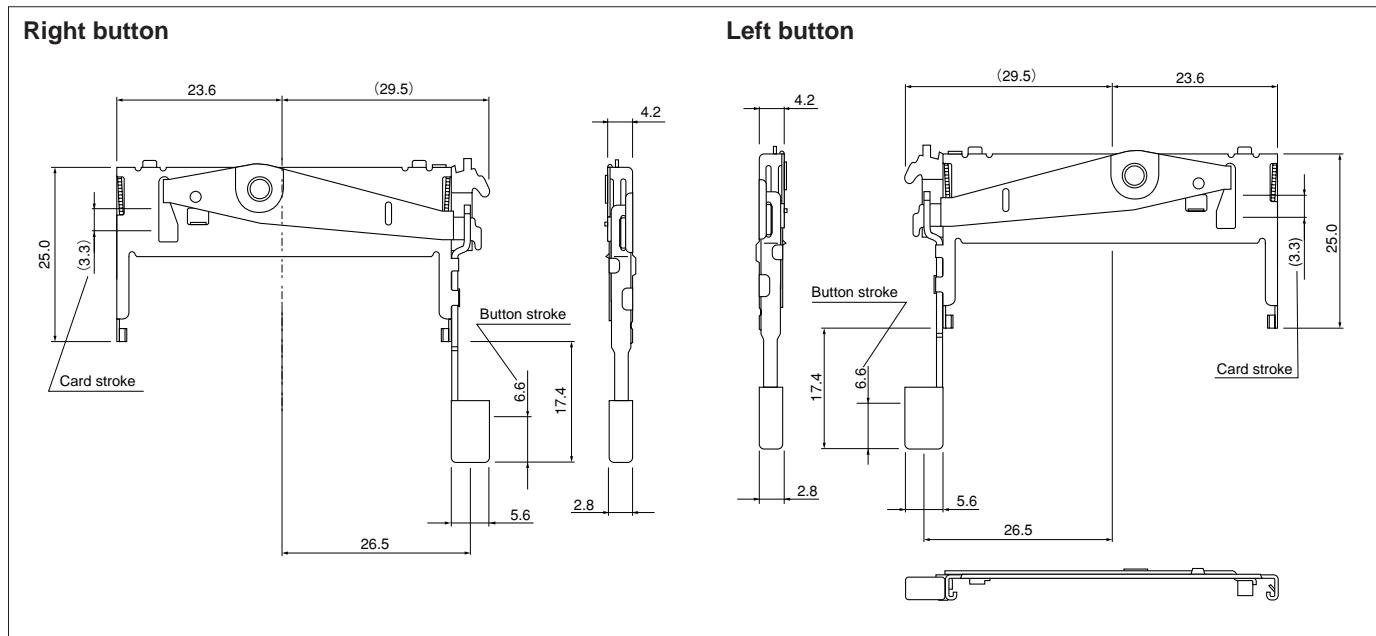
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

Circuits	Type	Model No.	Q'ty / reel	Material and Finish
50	Normal	ICM-MA2H-SS52-N13LT	750	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
	Reverse	ICM-MA2H-SS52-R13HT	750	

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

CF CARD CONNECTOR MA Type

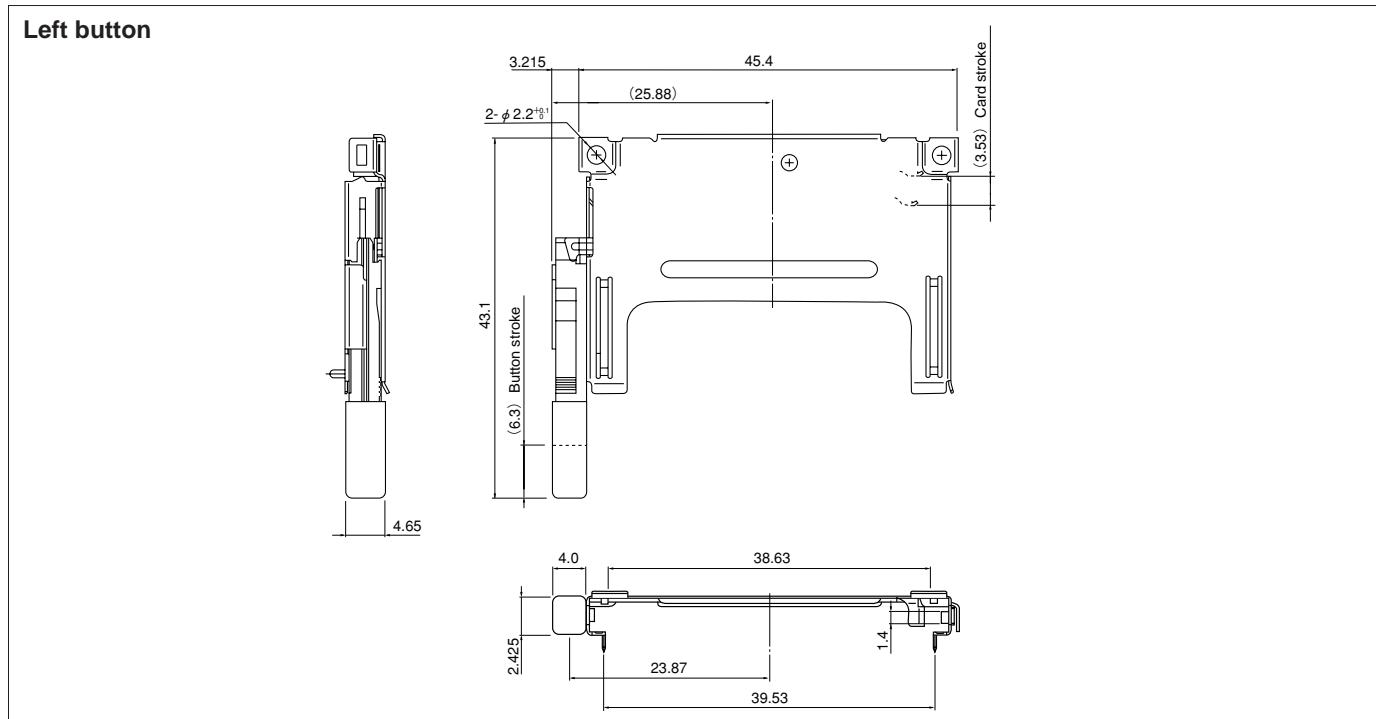
Ejector (for Type I Header)



Type	Model No.	Q'ty / box	Material	Applicable header
Right button	ICM-MAE-R01	100	Frame/ Rotation arm : Stainless Push button: PPS, UL94V-0, black	ICM-MA50H-SS52-1141 ICM-MA50H-SS52-1151
Left button	ICM-MAE-L01	100		ICM-MA50H-SS52-1161 ICM-MA50H-SS52-1171

RoHS compliance Applicable headers display (LF)(SN) on a label.

Ejector mounted header (for Type I Header) / Space-saving type



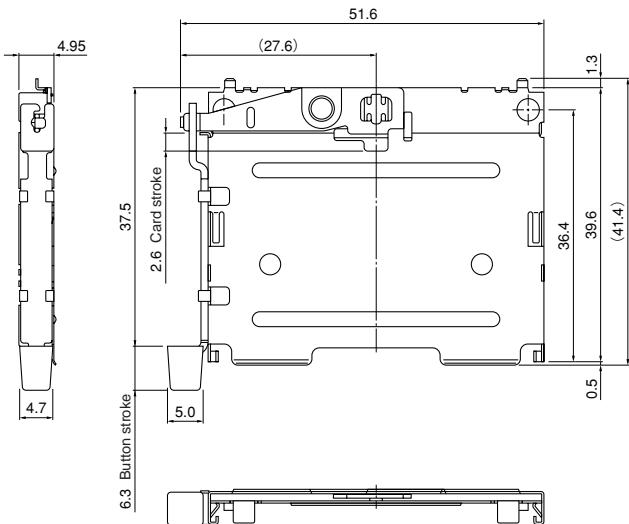
Type	Model No.	Q'ty / box	Material and Finish	Applicable header
Reverse (Left button)	ICM-MAE-L91ND	252	Frame: Stainless, nickel-undercoated, tin/copper alloy-plated Rotation arm: Stainless Push button: Synthetic resin, UL94V-0, gray	ICM-MA50H-SS52-1184

RoHS compliance This product displays (LF) on a label.
An applicable header displays (LF)(SN) on a label.

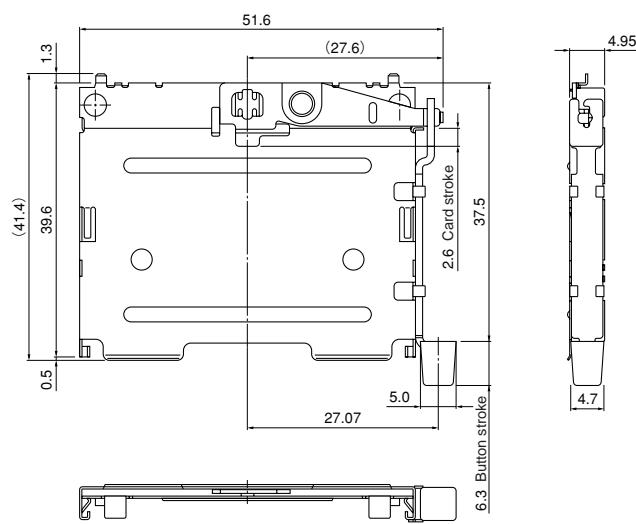
CF CARD CONNECTOR MA Type

Ejector (for Type II header)

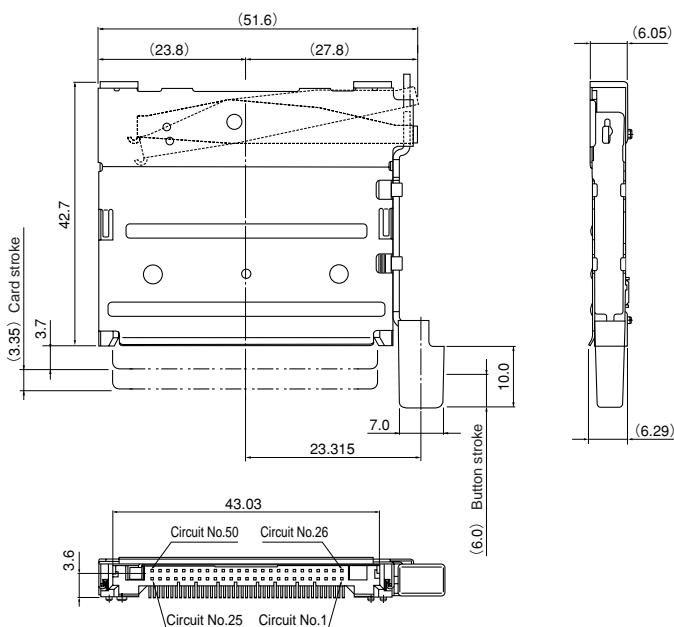
For Normal type header (Left button)



For Normal type header (Right button)



For Reverse type header (Right button)



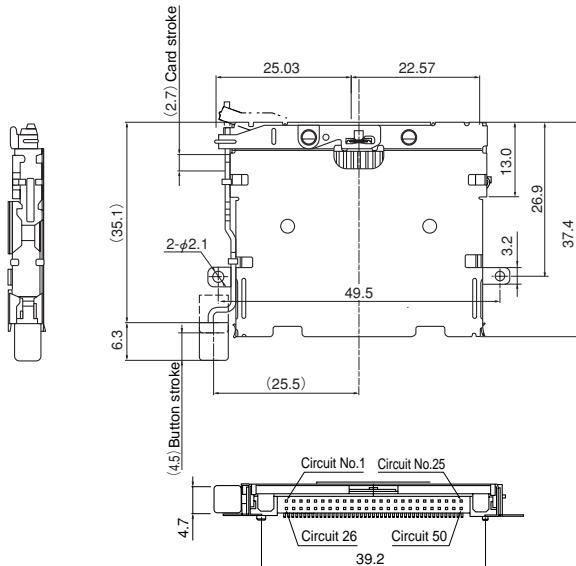
Type	Model No.	Q'ty / box	Material	Applicable header
For Normal type header (Left button)	ICM-MAE-L33	48	Frame/ Rotation arm/ Push bar/ Push plate/ Button shaft: Stainless Push button: PBT, UL94-0, black(R32), gray(L33)	ICM-MA2H-SS52-N11B
For Normal type header (Right button)	ICM-MAE-R32	48		
For Reverse type header (Right button)	ICM-MAE-R21A	48	Frame/ Rotation arm/ Push bar: Stainless Push button: PPS, UL94-0, black	ICM-MA2H-SS52-R21A

RoHS compliance ICM-MAE-L33/ICM-MAE-R32 display (N) on a label.
Applicable headers display (LF)(SN) on a label.

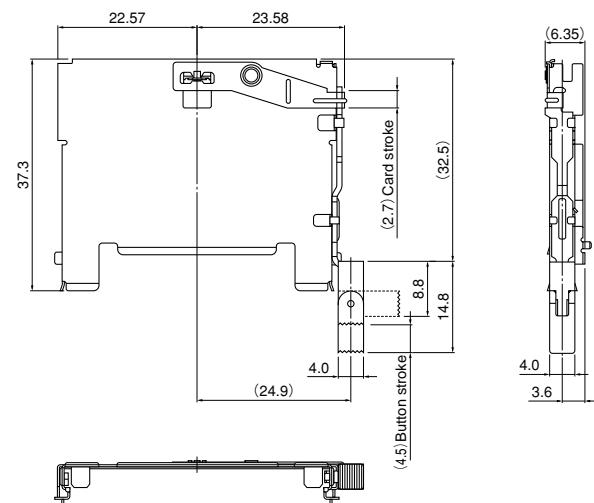
CF CARD CONNECTOR MA Type

Ejector (for Type II header) / Space-saving type

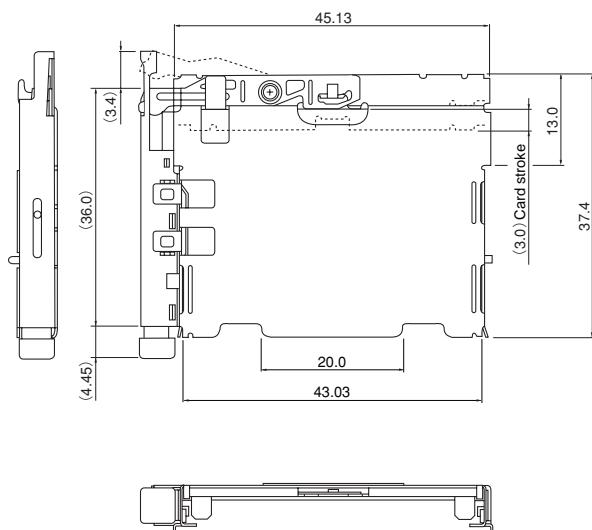
**For Normal type header
(Stand off 0mm) Left button**



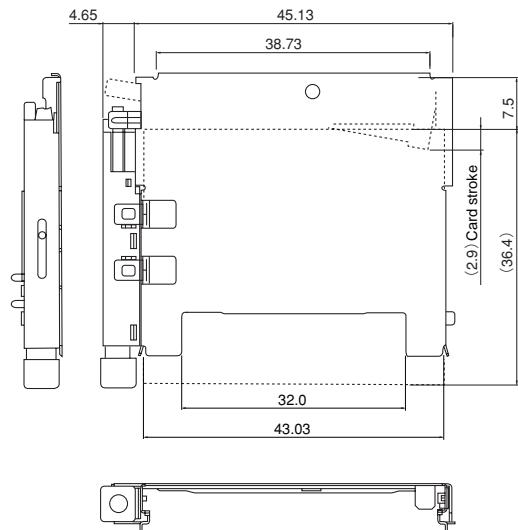
**For Reverse type header
(Stand off 0mm) Right button**



**For Normal type header
(Stand off 0mm) Left button/Push-push type**



**For Reverse type header
(Stand off 0mm) Left button/Push-push type**



Type	Model No.	Q'ty / box	Material and Finish	Applicable header
For Normal type header (Stand off 0mm) Left button	ICM-MAE-L73FA	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Button: PBT, UL94V-0, gray	ICM-MA2H-SS52-N13L ICM-MA2H-SS52-N13LT
For Normal type header (Stand off 0mm) Left button, Push-push	ICM-MA2EP-L520A	36	Rotation arm/Push plate: Stainless Button: PBT, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	
For Reverse type header (Stand off 0mm) Right button	ICM-MAE-R66C3	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Clinched button: Synthetic resin, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	ICM-MA2H-SS52-R13HT
For Reverse type header (Stand off 0mm) Left button, Push-push	ICM-MA2EP-L810E	36	Arm: Stainless Push button: Synthetic resin, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	

RoHS compliance ICM-MAE-R66C3 display (LF) on a label.

ICM-MA2EP-L520A/ICM-MA2EP-L810E display (LF) on a label.

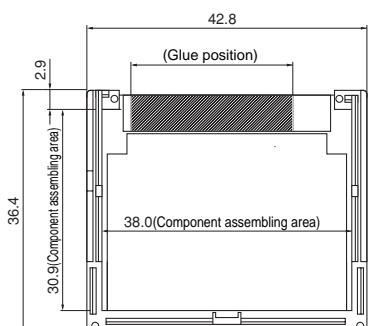
Applicable headers display (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

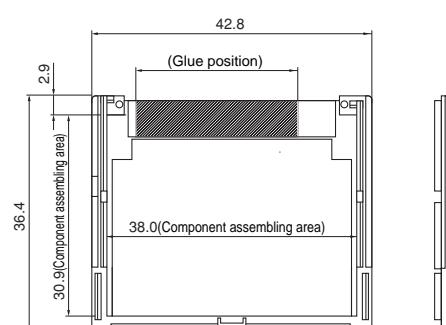
Card frame (for Type I cards)

ICM-MA50F-A/B-FB-C

Frame A



Frame B



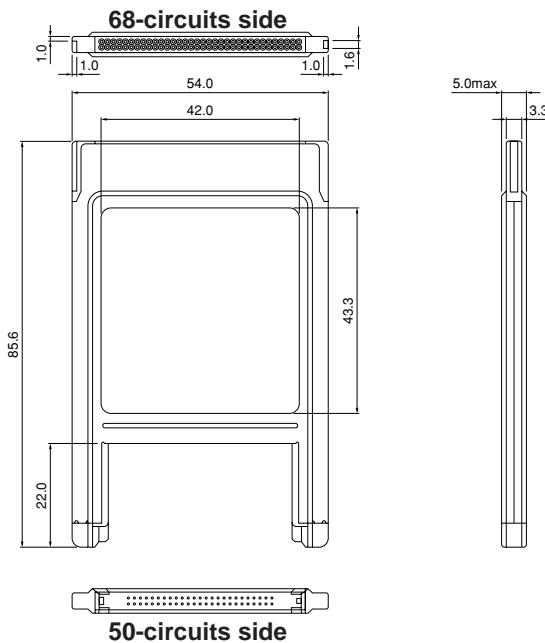
Circuits	Model No. as a set (Frame A + Frame B)	Applicable socket	Q'ty / box	Material
50	ICM-MA50F-A/B-FB-CA	ICM-MA50S-TS12-3032 ICM-MA50S-TS12-3023T	150	Frame: Glass-filled PBT, UL94V-0 Cover: Stainless

RoHS compliance

CF CARD CONNECTOR MA Type

Adapter card

For CF Type I cards
(PC card 5V key)



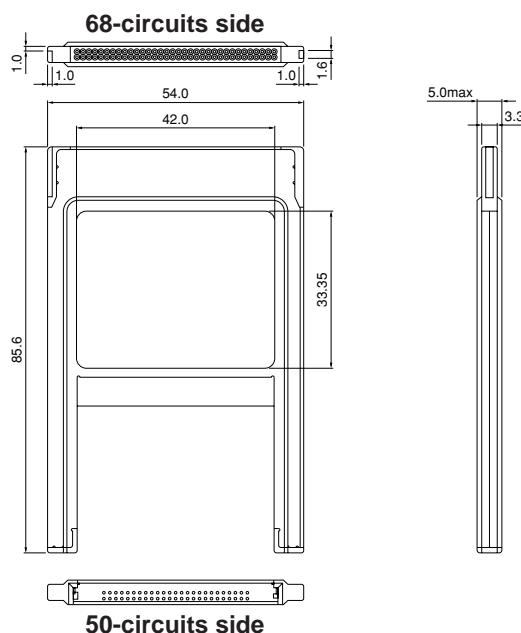
Model No.	Q'ty / box	Material and Finish	
ICM-MA50A-C441N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PPS, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated
		Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0	

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Adapter card

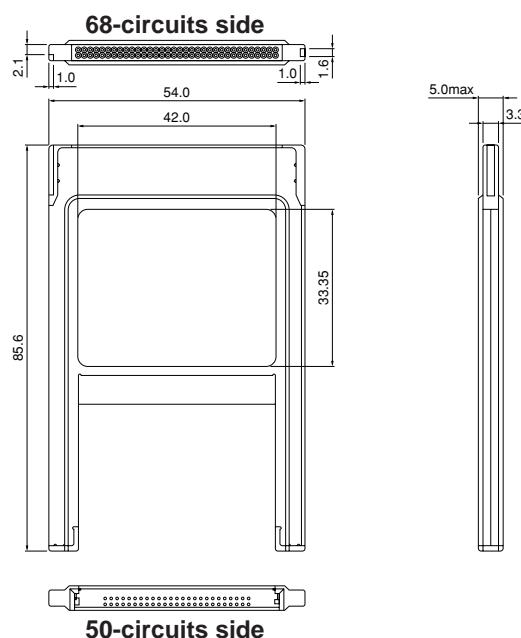
For CF Type II cards
(PC card 5V key
with grounding clip spring)



Model No.	Q'ty / box	Material and Finish	
ICM-MA2A-C454N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PPS, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance This product displays (LF)(SN) on a label.

For CF Type II cards
(PC card 3.3V key
with grounding clip spring)



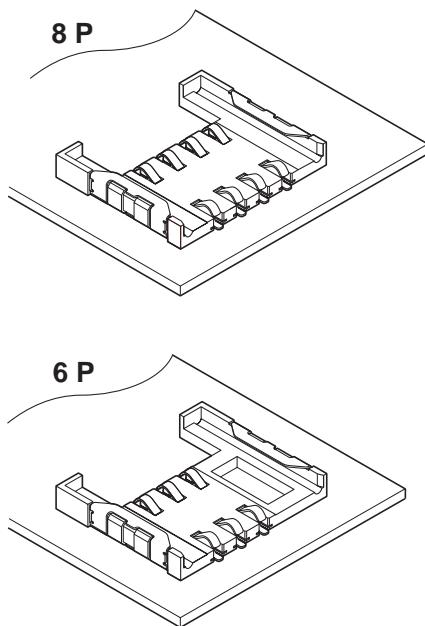
Model No.	Q'ty / box	Material and Finish	
ICM-MA2A-CL454N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PPS, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance This product displays (LF)(SN) on a label.



SCK CONNECTOR

2.54mm pitch



The connector is designed for the SIM Card, complying with the GSM11.11 standard, which will be used in the European digital GSM mobile phones. This connector is also suitable for the USIM Card to be used in the Third Generation (3G) mobile network (W-CDMA).

- **Durability**
- **Abundant variations**
- **Embossed tape for automatic mounting**

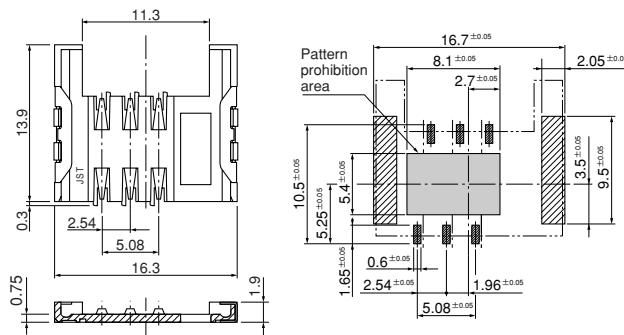
Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40mΩ max.
After environmental testing/60mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 500V AC/minute
- * Evaluate connector in actual equipment before use.
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

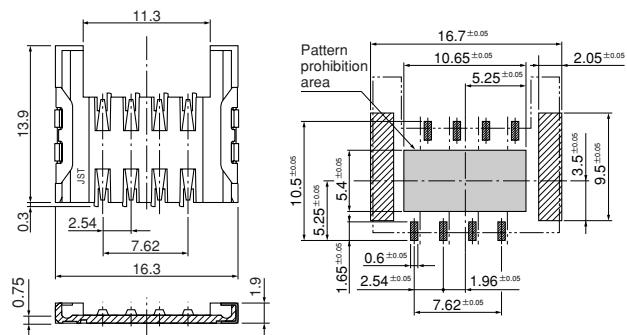
Connector and PC board layout (viewed from component side)

1.9mm height

<6 circuits>



<8 circuits>

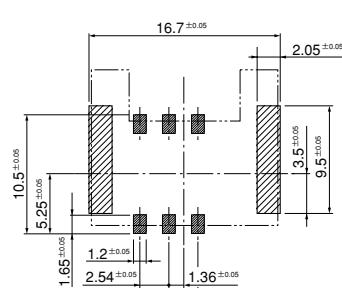
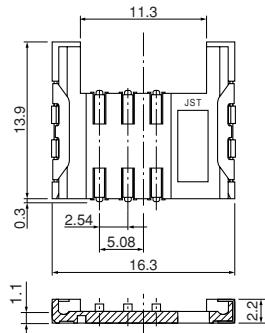


SCK CONNECTOR

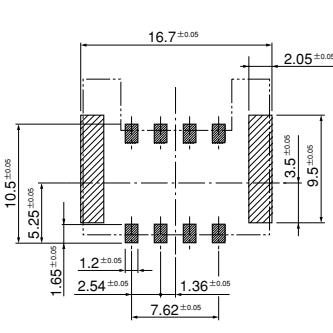
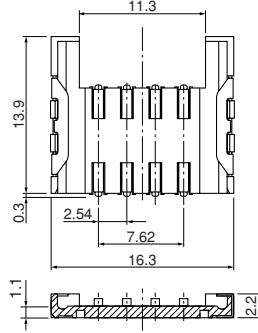
Connector

2.2mm height

<6 circuits>

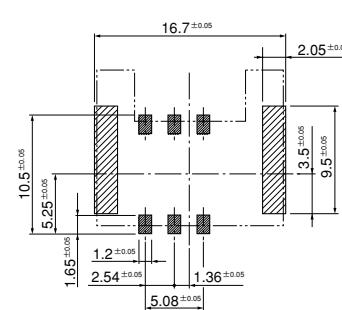
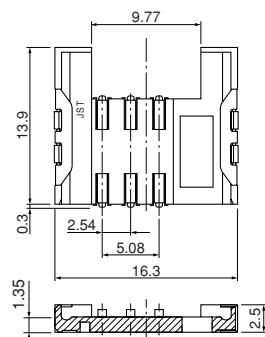


<8 circuits>

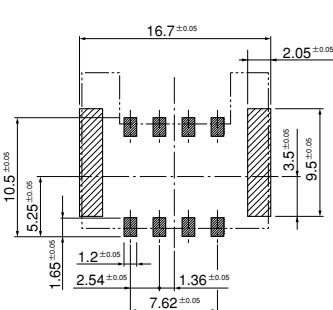
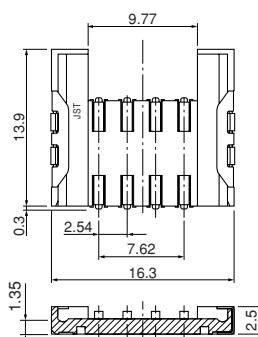


2.5mm height

<6 circuits>

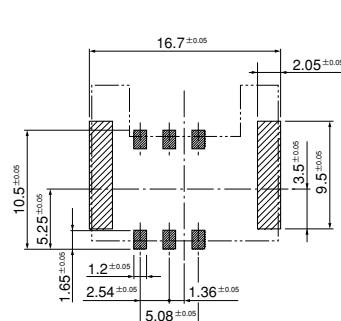
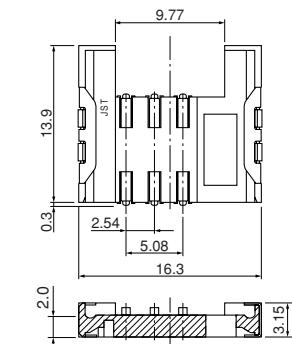


<8 circuits>



3.2mm height

<6 circuits>



Model No.

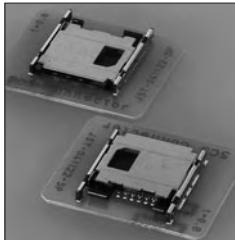
Height (mm)

Circuits	1.9	2.2	2.5	3.2
	SCK-6C-02PT-TF	SCK-6S-02PT-TF	SCK-6A-02PT-TF	SCK-6B-02PT-TF
6				
8	SCK-8C-02PT-TF	SCK-8S-02PT-TF	SCK-8A-02PT-TF	—
Q'ty/ reel	1,200	1,000	1,000	500

Material and Finish

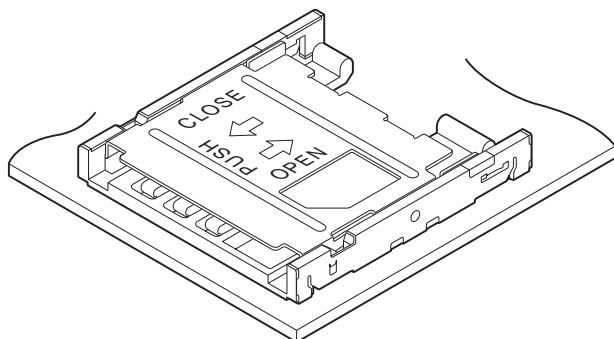
Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0, black
Solder tab: Copper alloy, tin-plated (reflow treatment)

RoHS compliance



SCS CONNECTOR

2.54mm pitch



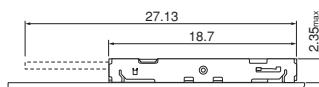
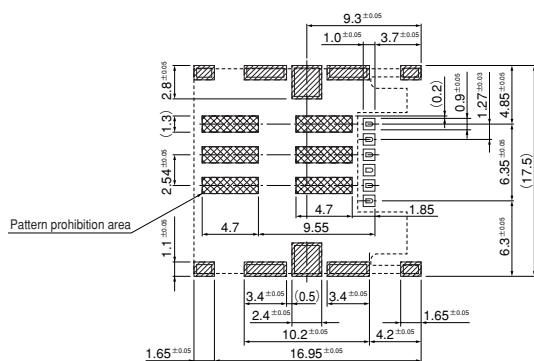
The 2.54mm SCS connector is designed for the Plug-in SIM Card, complying with the GSM 11.11 standard.

- Open tray type design
- Slide lock mechanism design
- Reducing the load given to contacts
- Embossed tape for automatic mounting

Specifications

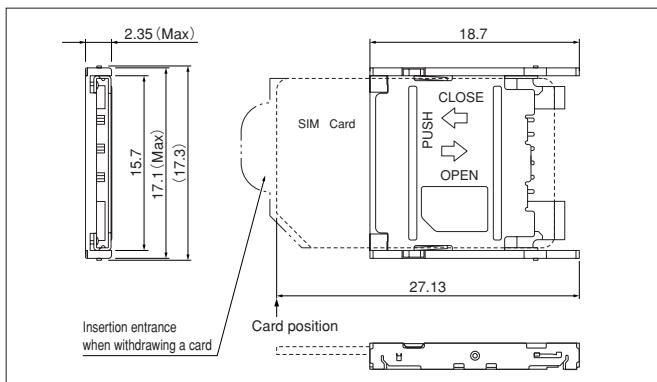
- Current rating: 0.7A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50mΩ max.
After environmental testing/60mΩ max.
(variation from initial value)
- Insulation resistance: 500MΩ min.
- Withstanding voltage: 500V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

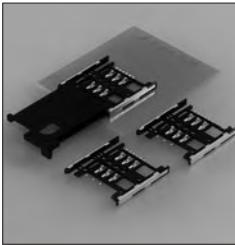


Circuits	Model No.	Q'ty / reel
6	SCS-6S-1K-ST03-T-TB	1,000

Material and Finish

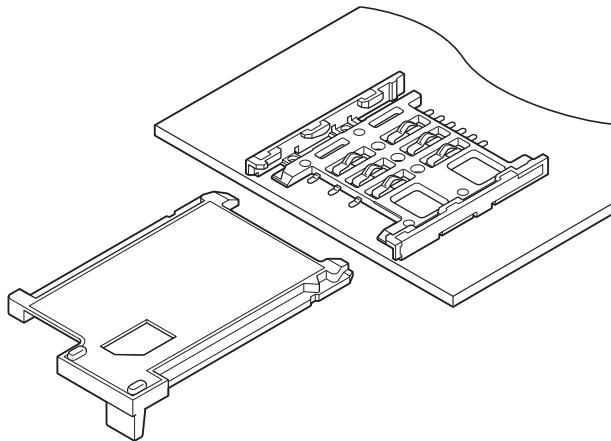
Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, nickel-undercoated, gold-plated
Tray: Stainless

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.



SCX CONNECTOR

2.54mm pitch



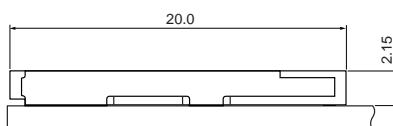
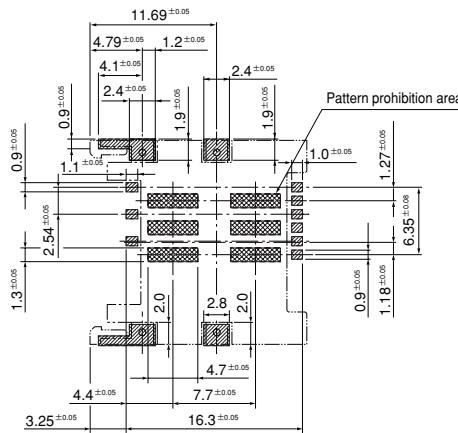
The SCX connector is for SIM Card and USIM(UIM) of the 3rd generation mobile phone, complying with the GSM11.11 standard that is a general standard for the digital mobile phone in Europe.

- **Slide tray design**
- **High reliability for the electrical contact**
- **Light weight and low-profile**
- **The Knob of the tray**
- **The package with the carrier tape for an automatic mounting machine (Socket only)**

Specifications

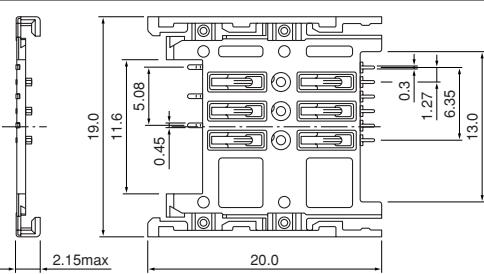
- Current rating: 1.0A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



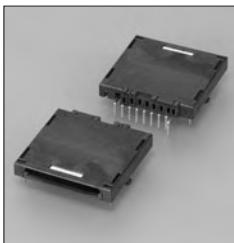
Circuits	Model No.	Q'ty / reel
6	SCX-6S-1K-ST23-TB	1,000

Material and Finish

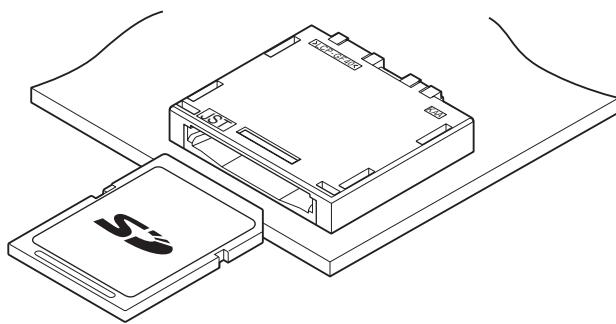
Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

This products listed above are supplied on embossed-tape.



SD CONNECTOR



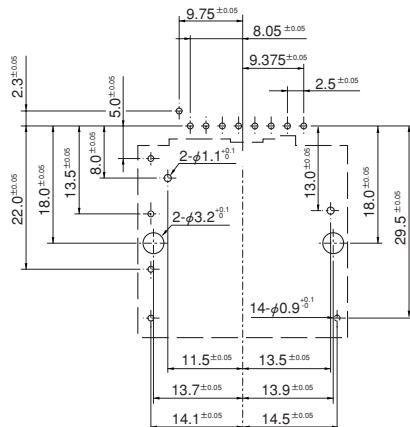
Designed for the SD (secure digital) memory card. Also applicable to the MMC (multi-media card).

- **Push-push mechanism**
- **Card-detection switch**
- **Static electricity shielding**

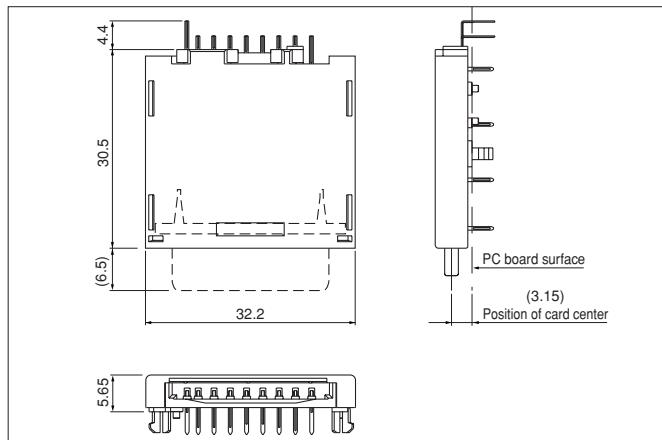
Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 5V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50mΩ max. (signal part)
After environmental testing/80mΩ max.
(signal part)
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 500V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout



Connector



Model No.	Q'ty / box
SD-C-9BND-P23-332	60

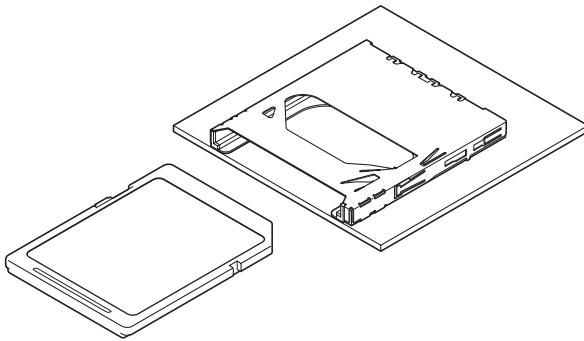
Material and Finish

Housing: LCP, UL94V-0
Cover: LCP, UL94V-0
Guide: LCP, UL94V-0
Signal contact: Phosphor bronze, nickel-undercoated, gold-plated
Write protect switch: Phosphor bronze, nickel-undercoated, gold-plated
Terminal: Phosphor bronze, nickel-undercoated, gold-plated
Card detection switch: Phosphor bronze, nickel-undercoated, gold-plated
Joint rod: Kovar
Spring: SWPB, nickel-plated
GND contact: Phosphor bronze, tin-plated (reflow treatment)
Shaft: Brass

RoHS compliance



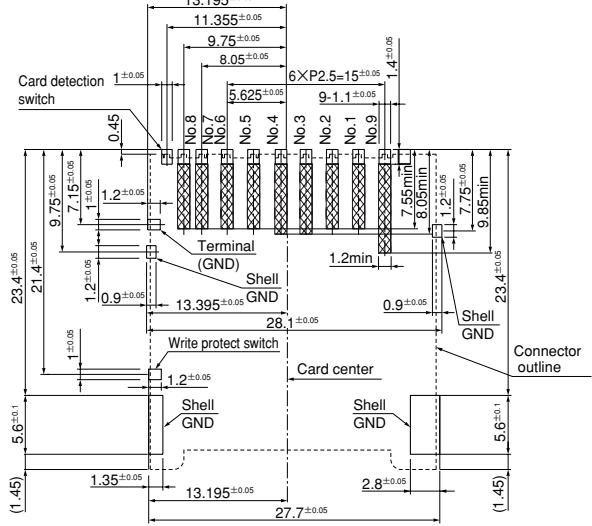
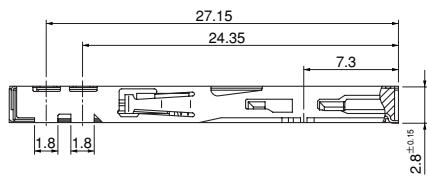
SDK CONNECTOR



This connector is designed for SD Card & MMC (Multi media card), complying with the SD Card Association standard, and is with the switch for Write-protection & Card-detection. And due to Push-push mechanism design, its card can be easily ejected by push-push operation.

- Space saving design
- The amount of card ejection
- Outstanding durability
- Prevention of reverse card insertion

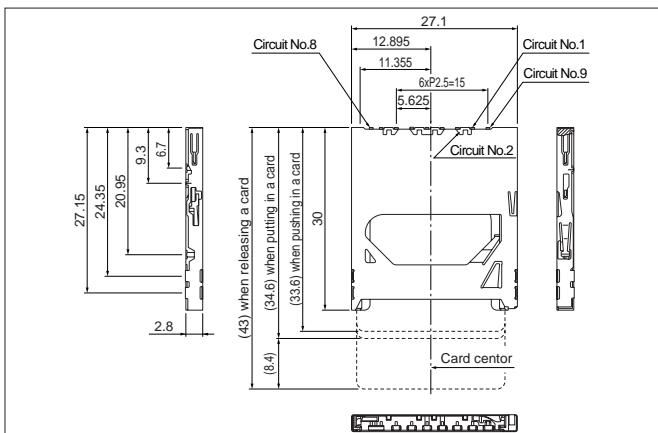
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Model No.	Q'ty / reel
SDK-9BNS-K13-GN-TB	450

Material and Finish

Housing, Guide: Heat resisting resin, UL94V-0
 Contact: Copper alloy, nickel-undercoated, selective gold-plated, selective tin-plated (reflow treatment)
 Terminal: Copper alloy, nickel-undercoated, gold-plated
 Card detection switch: Copper alloy, nickel-undercoated, gold-plated
 Write protect switch: Copper alloy, nickel-undercoated, selective gold-plated, selective tin-plated (reflow treatment)
 Card lock: Copper alloy, tin-plated
 Joint rod, Spring: SUS
 Shell: SUS, Solder tail/ selective nickel-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
 This products listed above are supplied on embossed-tape.

2

Interface Connection Connectors

TABLE OF CONTENTS

D SUBMINIATURE CONNECTOR.....	264
J SERIES.....	266
JH SERIES	282
JK SERIES	286
KH SERIES	294
ACCESSORIES.....	296
MD CONNECTOR	305
MD CONNECTOR <SMT>.....	315
UB CONNECTOR	316
UB CONNECTOR mini-B Type.....	322
RV CONNECTOR	324
MJ CONNECTOR	326

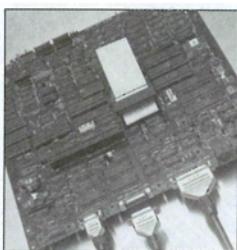
Series KH



Series KH

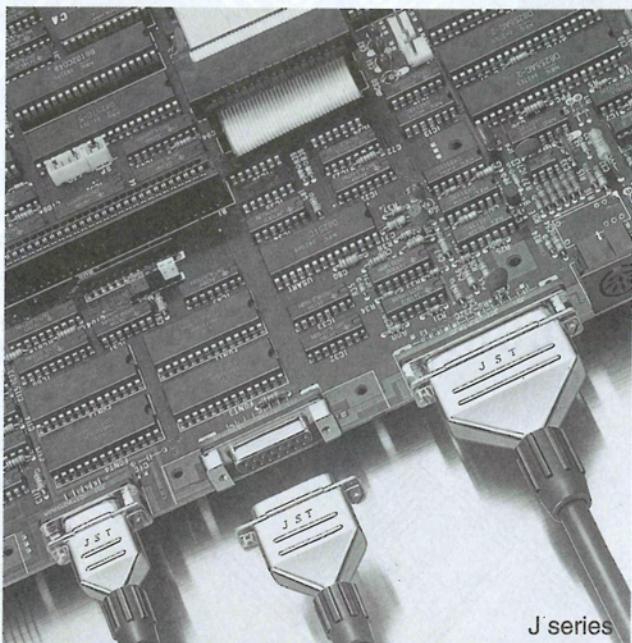


Series KH

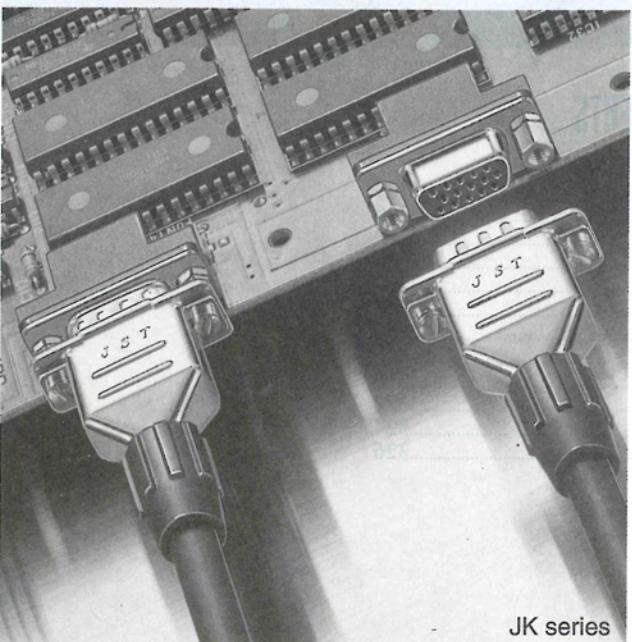


D-SUBMINIATURE CONNECTOR

D-Sub Connector series



J series



JK series



J series



JK series

Features

- **Reliable**

The contacts are made by high-speed stamping presses that provide superior dimensional accuracy. The performance of the mating surfaces is equal to that of machined contacts, while the cold working provided by the stamping process provides a superior spring.

- **Economical**

The contacts for these connectors are made by high-speed stamping presses, and only the mating portion of each contact is gold-plated. Moreover, the production process is fully rationalized to assure quality and optimize the use of resources. Labor saving, crimp style contacts suited for efficient assembly of round cables are also available.

- **Application**

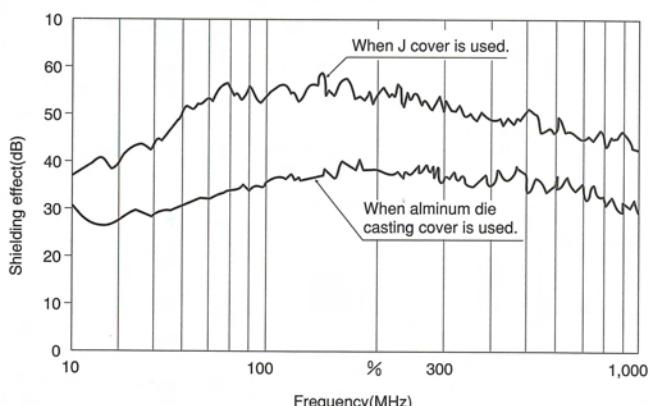
The D subminiature J/JH/JK & KH series connectors are ideal for internal connections and for the interconnections of various electronic products such as minicomputers, personal computers, word processors, factory automation equipments, measuring instruments, and medical instrumentation.

- **1.7 times higher density JK/KH series**

The JK/KH series of D subminiature connectors have 15 circuits in a standard 9 circuit shell by virtue of its 3-row, 2.286mm pitch construction, 1.7 times as dense as the J series.

- **Countermeasures against electromagnetic interference**

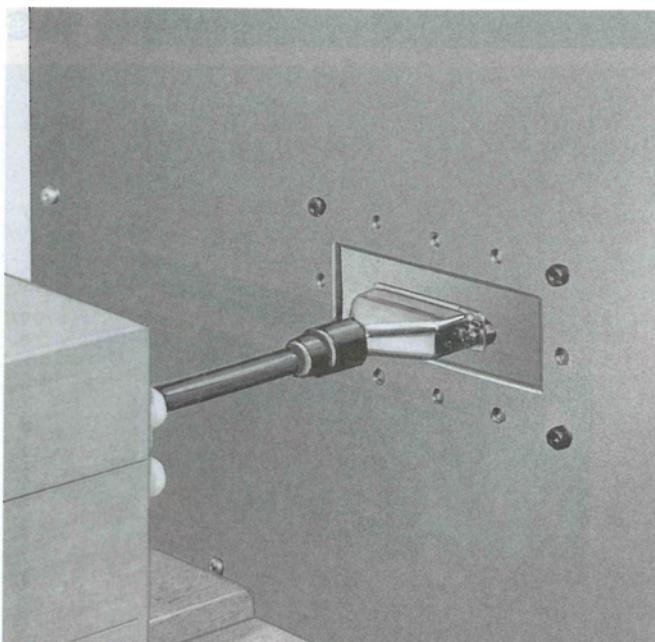
Regulations to prevent electromagnetic interference from electronic equipment have become general practice throughout the world. Therefore, shielding external I/O interconnections to prevent electromagnetic interference has become increasingly important. At the same time, interconnection devices have become smaller, lighter, and stronger. To meet these needs, we have developed the J covers, which have a superior shielding effect without proportional bulk.



Shielding effect measurement data

The shielding effect of the J cover was compared with that of our conventional aluminum die casting cover.

D SUBMINIATURE CONNECTOR



To ensure reliable EMC performance, JST is studying shielding measures from various angles, including introduction of numerous measuring instruments.



Solder pot plug

• Available styles and sizes

Connector	Style	Circuits										
		J Series				JS Series		JH Series		JK Series	KS Series	KH Series
		9	15	25	37	9	25	9	25	15	15	15
Connector	Solder pot plug	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>							
	Solder pot socket	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>							
	Right angle through-hole plug	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>			
	Right angle through-hole socket	<input type="radio"/>		<input type="radio"/>								
	Straight through-hole plug	<input type="radio"/>		<input type="radio"/>								
	Straight through-hole socket	<input type="radio"/>		<input type="radio"/>						<input type="radio"/>		
	Crimp style plug	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					<input type="radio"/>		
	Crimp style socket	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>						<input type="radio"/>		
Cover	J cover	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					<input type="radio"/>		
	Mold cover	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>						<input type="radio"/>		
	Aluminum die-cast cover			<input type="radio"/>								
	JIS plastic cover				<input type="radio"/>							

Standards

Recognized E60389

Certified LR20812

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.



DSUBMINIATURE CONNECTOR J SERIES

Solder pot plug and socket

SOLDER POT PLUG AND SOCKET



Solder pot plug



Solder pot socket

Features

- The socket contacts are formed by high-speed stamping presses to obtain the advantages of cold working. They are therefore highly elastic, which in turn ensures reliable connection even after many mating cycles.
- The dimples in the plug shell ensure continuity between it and the socket shell, thus providing complete shielding.

Standards

Recognized E60389 Certified LR20812

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	3A, AC, DC (2A for 37-circuits)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

- Costs are kept low by selective gold plating the contacts.
- The solder cup portions of the contacts are tin-plated for easy soldering.
- Insulator housings are made of a heat-resistant glass-filled PBT resin.

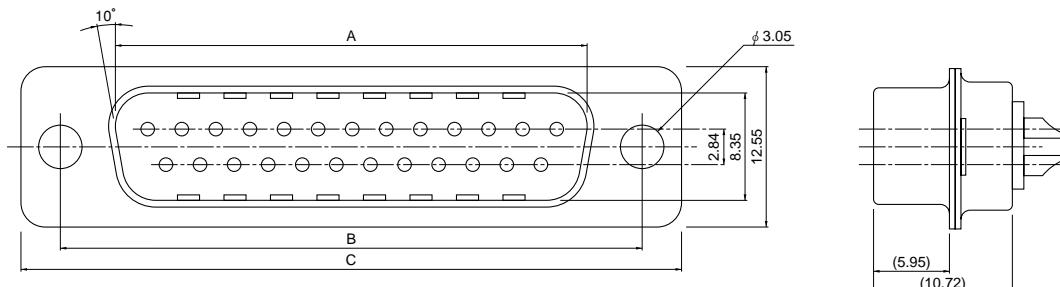
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Model number identification

J	E	Z	-	9	P	12	-	3
• Series name								
• Shell size: E, A, B, C								
• Wire connection style: Z ... Solder pot type								
• Number of circuits: 9, 15, 25, 37								
• Connector style: P ... Plug, S ... Socket								
• Finish Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated 90 ... Tin-plated (reflow treatment)								
• Plating specification of shell: 3 ... Copper-undercoated, nickel-plated								
Note: 1. The relationship between number of circuits and shell size is shown below. 9: E, 15: A, 25: B, 37: C 2. Contact JST for special plating requirements.								

D SUBMINIATURE CONNECTOR J SERIES

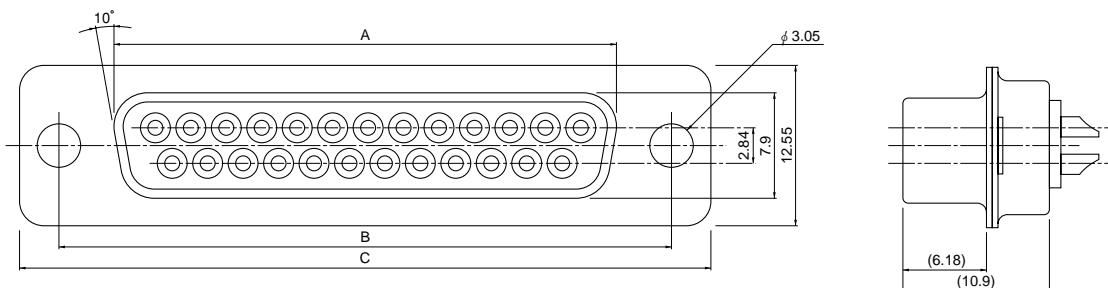
Plug



Circuits	Model No.		Dimensions (mm)			Q'ty / box
	Gold-plated	Tin-plated	A	B	C	
9	JEZ-9P-3	JEZ-9P-90-3	16.92	24.99	30.80	100
15	JAZ-15P-3	JAZ-15P-90-3	25.25	33.32	39.14	100
25	JBZ-25P-3	JBZ-25P-90-3	38.97	47.04	53.04	50
37	JCZ-37P-3	JCZ-37P-90-3	55.43	63.50	69.32	50

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Socket



Circuits	Model No.		Dimensions (mm)			Q'ty / box
	Gold-plated	Tin-plated	A	B	C	
9	JEZ-9S-3	JEZ-9S-90-3	16.34	24.99	30.80	100
15	JAZ-15S-3	JAZ-15S-90-3	24.67	33.33	39.14	100
25	JBZ-25S-3	JBZ-25S-90-3	38.38	47.04	53.04	50
37	JCZ-37S-3	JCZ-37S-90-3	54.84	63.50	69.32	50

RoHS compliance Gold-plated products display (LF)(SN) on a label.



DSUBMINIATURE CONNECTOR J SERIES

Right angle through-hole plug and socket

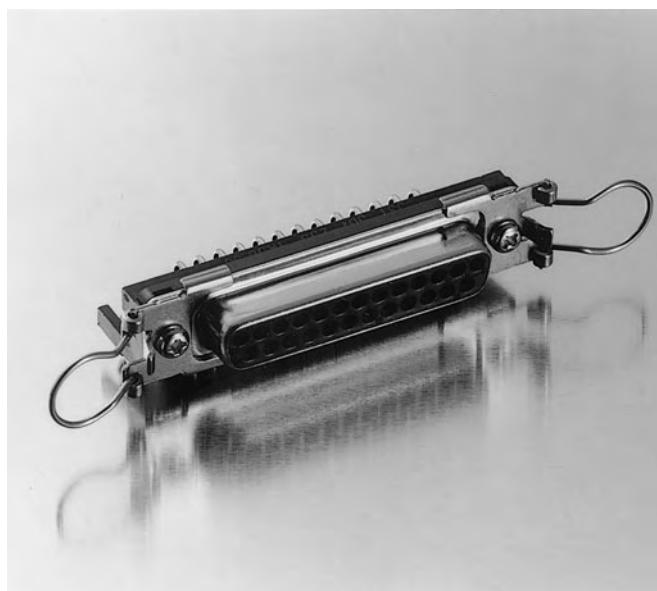
RIGHT ANGLE THROUGH-HOLE PLUG AND SOCKET



Right angle through-hole plug
(with hexagonal lock screw blocks)



Right angle through-hole socket
(with rectangular lock screw blocks)



Right angle through-hole socket
(with bail lock)

Features

- The socket contacts are made by high-speed stamping presses. This promotes the uniform elasticity of the twin-contact mating sections and therefore ensures reliable contact even after repeated mating cycles. The solder tails are U-shaped for extra strength.
- Costs are minimized by selective gold plating, high speed stamping presses, and completely automated assembly.
- To ensure complete shielding, a wide variety of grounding adapters are available so that the sockets can be grounded to different kinds of supporting structures.
- Metric, inch or other lock screw blocks are available for fastening mating plugs.

D SUBMINIATURE CONNECTOR J SERIES

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Socket	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Hexagonal lock screw block		Steel, copper-undercoated, nickel-plated
Rectangular lock screw block		Zinc, copper-undercoated, nickel-plated
Grounding adapter having a 3.2mm dia. hole		Steel, copper-undercoated, nickel-plated
Grounding adapter having an M3 tapped hole		Steel, copper-undercoated, nickel-plated
Grounding adapter having a spring lock lever		Brass, nickel-undercoated, tin/copper alloy-plated
Spring locks	Bail lock Accepts ball locks	Stainless steel

Model number identification

Characteristics

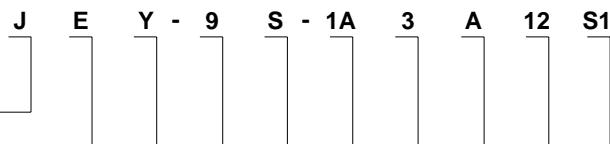
Current rating	3A, AC, DC (2.0A AC, DC for 37-circuits)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

Standards

Recognized E60389 Certified LR20812

- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.



- Series name
- Shell size: E, A, B, C
- Wire connection style:
Y ... Right angle through-hole style
- Number of circuits: 9, 15, 25, 37
- Connector style: P ... Plug, S ... Socket
- Connector construction/Dimensions: Standard J series
- Types of grounding adapters
 - 0 ... Without grounding adapters
 - 1 ... With grounding adapters having a 3.2mm dia. hole
 - 2 ... With grounding adapters having an M3 thread
 - 3 ... With grounding adapters having a spring lock device (1)
 - 4 ... With grounding adapters having a spring lock device (2)
- Types of lock screw blocks
 - A ... With hexagonal lock screw blocks having a No. 4-40 UNC inch thread
 - B ... With hexagonal lock screw blocks having an M2.6 thread
 - C ... With rectangular lock screw blocks having an M2.6 thread
 - D ... Without lock screw blocks
 - E ... Without lock screw blocks, but with grounding adapters having a 3.05mm dia. hole
 - F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread
 - G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
 - H ... Without lock screw blocks, but with grounding adapters having an M3 thread
- Finish

Blank ... Gold-plated (flash)	12 ... 0.2micron gold-plated
13 ... 0.4micron gold-plated	14 ... 0.76micron gold-plated
90 ... Tin-plated (reflow treatment)	
- Bail locks
 - Blank...Without bail locks
 - S or S1...With bail locks
 - S2...With bail locks (with addition of spring characteristic)

Note: 1. The relationship between number of circuits and shell size is shown below.

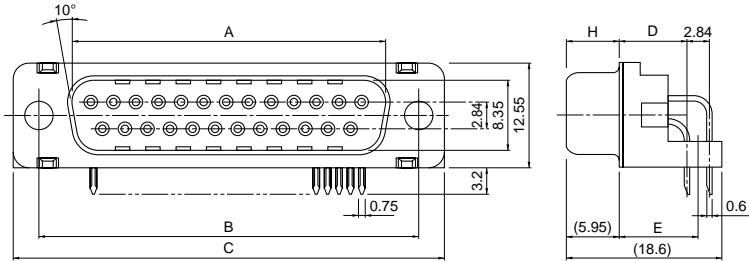
9: E, 15: A, 25: B, 37: C

2. Contact JST for special plating requirements.

3. Contact JST for the Socket with bail locks. (Not UL/CSA approved.)

D SUBMINIATURE CONNECTOR J SERIES

Right angle through-hole plug



H: Height of the lock screw block (for Types A, B & C)

Cir-cuits	Model No.		Dimensions (mm)					Q'ty / box
	gold-plated plug	tin-plated plug	A	B	C	D	E	
9	JEY-9P-1A**	JEY-9P-1A**90	16.90	24.99	30.80	8.1	9.52	100
15	JAY-15P-1A**	JAY-15P-1A**90	25.25	33.33	39.14	8.1	9.52	100
25	JBY-25P-1A**	JBY-25P-1A**90	38.97	47.04	53.00	8.2	9.62	50

<Gold-plated product> RoHS compliance This product displays (LF)(SN) on a label.

<tin-plated product> *1, 2, 3 ... RoHS compliance

*4, 5 ... RoHS compliance This product displays (LF) on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered.

For example, if a 9-circuit gold-plated (flash) plug with hexagonal lock screw blocks having a No.4-40UNC inch thread and without grounding adapters is required, specify the model number as JEY-9P-1A0A.

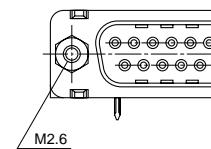
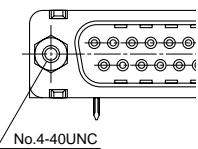
Type A



With hexagonal
lock screw
blocks(H:6.3mm)
having a
No.4-40UNC
inch thread



With hexagonal
lock screw
blocks(H:6.3mm)
having an
M2.6 thread



*1
Without grounding adapters



0A

0B

*2
With grounding adapters
with a 3.2mm dia. hole



1A

1B

*3
With grounding adapters
with an M3 thread



2A

2B

*4
With grounding adapters
with a spring lock device (1)



3A

3B

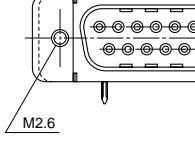
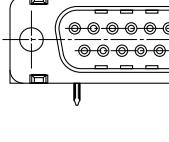
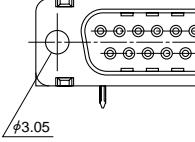
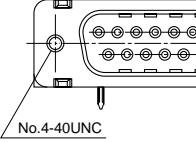
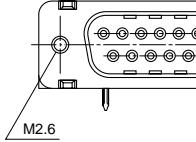
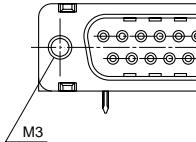
*5
With grounding adapters
with a spring lock device (2)



—

—

D SUBMINIATURE CONNECTOR J SERIES

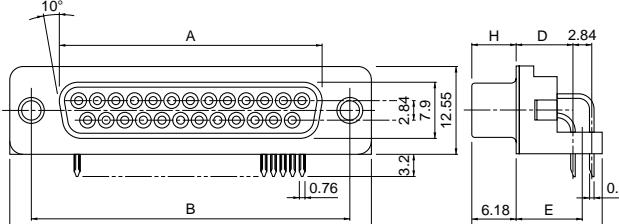
Type C	Type D	Type E	Type F	Type G	Type H	
						
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)	Use a lock screw block of Model number JFS-()S-C1N.	*1: No.4-40UNC inch thread *2: Model number JFS-4S-()1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-()1W(M)	*1: M3 thread *2: Model number JFS-3S-()1W(M)
						
0C	0D	—	—	—	—	
1C	1D	1E	1F	1G	—	
2C	2D	2E	2F	2G	—	
3C	3D	3E	3F	3G	—	
—	—	—	—	—	4H	

D SUBMINIATURE CONNECTOR J SERIES

Right angle through-hole socket							Type A	Type B
Circuits	Model No.		Dimensions (mm)				Q'ty / box	
	gold-plated socket	tin-plated socket	A	B	C	D	E	
9	JEY-9S-1A**	JEY-9S-1A**90	16.34	24.99	30.81	8.1	9.52	100
15	JAY-15S-1A**	JAY-15S-1A**90	24.67	33.32	39.14	8.1	9.52	100
25	JBY-25S-1A**	JBY-25S-1A**90	38.38	47.04	53.04	8.2	9.62	50
37	JCY-37S-1A**	JCY-37S-1A**90	54.84	63.50	69.32	8.2	9.62	50

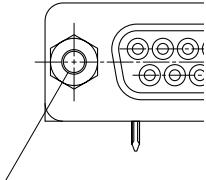
<Gold-plated product> RoHS compliance This product displays (LF)(SN) on a label.
 <tin-plated product> *1, 2, 3 ... RoHS compliance
 *4, 5 ... RoHS compliance This product displays (LF) on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No.4-40UNC inch thread and without grounding adapters is required, specify the model number as JEY-9S-1A0A.

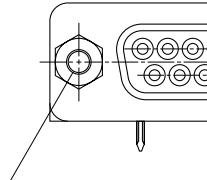




With hexagonal lock screw blocks(H: 6.3mm) having a No.4-40UNC inch thread



With hexagonal lock screw blocks(H: 6.3mm) having an M2.6 thread



*1
Without grounding adapters

0A
0B

*2
With grounding adapters with a 3.2mm dia. hole

1A
1B

*3
With grounding adapters with an M3 thread

2A
2B

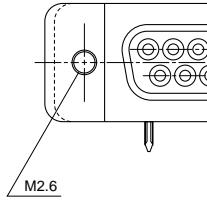
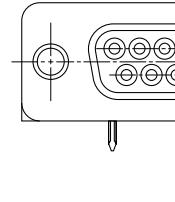
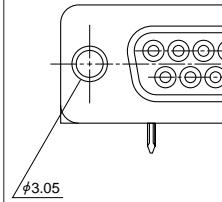
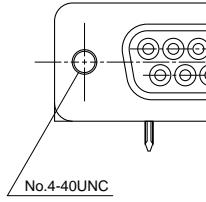
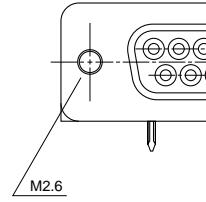
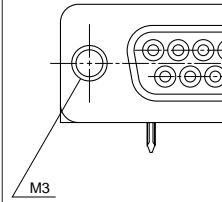
*4
With grounding adapters with a spring lock device (1)

3A
3B

*5
With grounding adapters with a spring lock device (2)

—
—

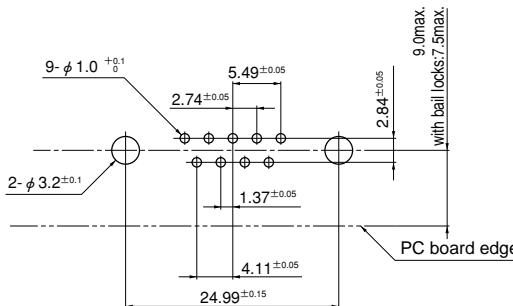
D SUBMINIATURE CONNECTOR J SERIES

Type C	Type D	Type E	Type F	Type G	Type H	
						
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)	Used a lock screw block [model number JFS-()S-C1N]	*1: No.4-40UNC inch thread *2: Model number JFS-4S-()1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-()1W(M)	*1: M3 thread *2: Model number JFS-3S-()1W(M)
						
0C	0D	—	—	—	—	
1C	1D	1E	1F	1G	—	
2C	2D	2E	2F	2G	—	
3C	3D	3E	3F	3G	—	
—	—	—	—	—	4H	

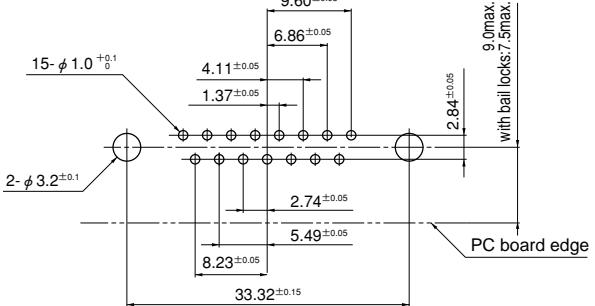
D SUBMINIATURE CONNECTOR J SERIES

PC board layout (viewed from component side)

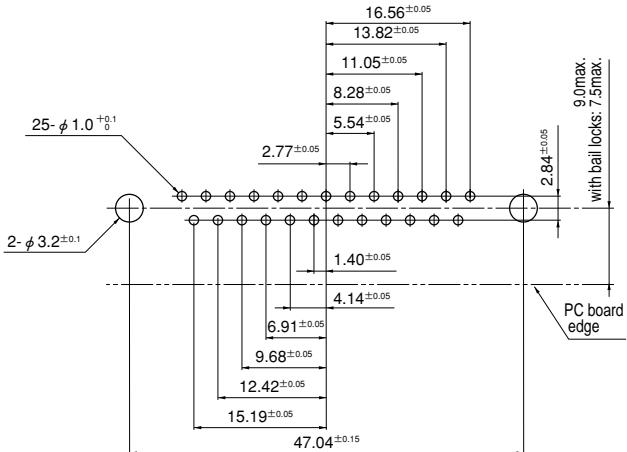
(9 circuits)



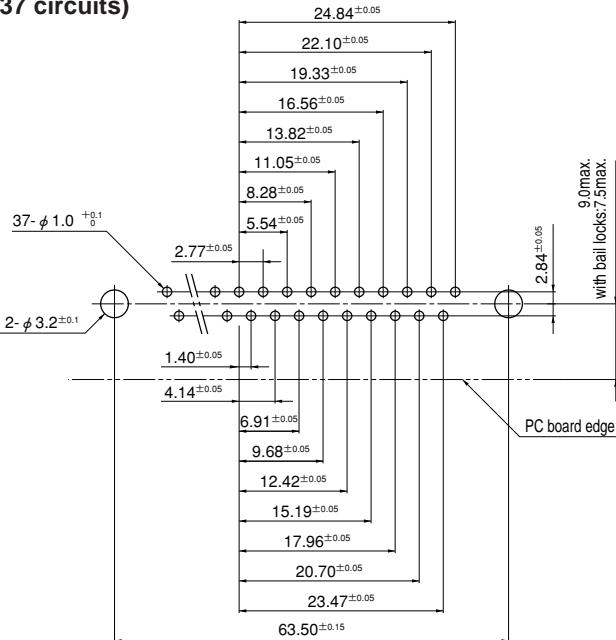
(15 circuits)



(25 circuits)



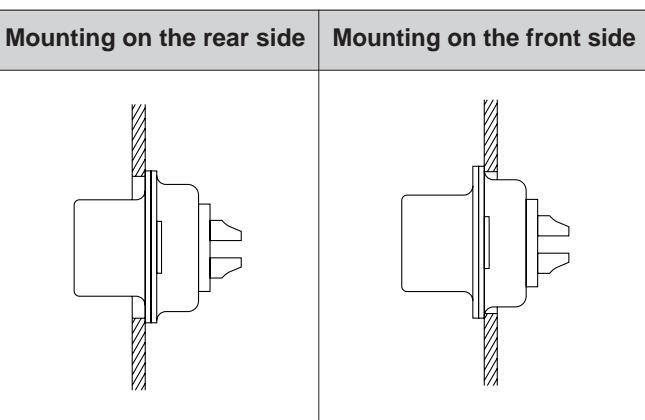
(37 circuits)



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

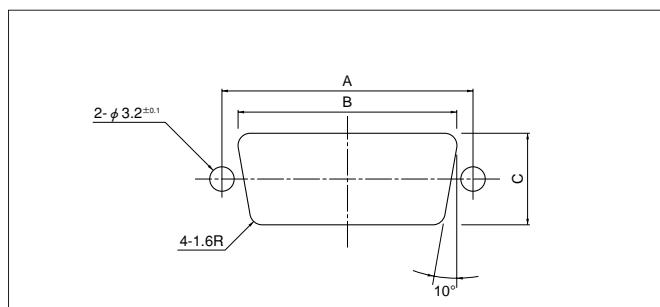
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Panel layout



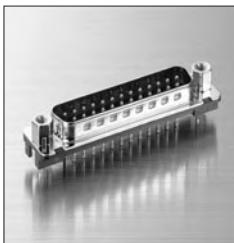
The connector can be mounted either on the front side or on the rear side of the panel as shown above.

Use M2.5 or M2.6 screws for installation.



Circuits	$A \pm 0.15$	$B \pm 0.2$	$C \pm 0.2$
9	24.99	20.6	12.0
15	33.32	28.8	12.0
25	47.04	42.6	12.0
37	63.50	59.0	12.0

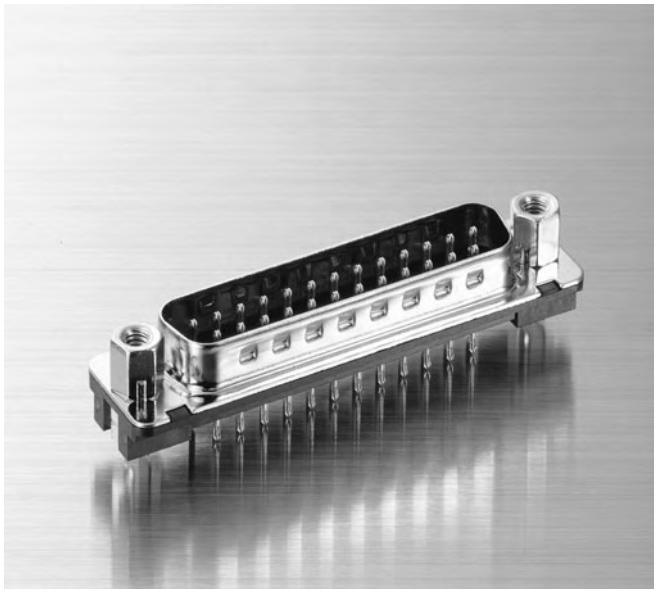
Note: The dimensions above should serve as a guideline.
Contact JST for details.



D SUBMINIATURE CONNECTOR J SERIES

Straight through-hole plug and socket

STRAIGHT THROUGH-HOLE PLUG AND SOCKET



Straight through-hole plug
(with hexagonal lock screw blocks)



Straight through-hole socket (without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread)

Features

- Three standard types are available with different dimensions between the flange and solder tail: 6mm, 9mm, and 12mm.
- The roots of the contact leads are covered to prevent flux from rising into the connector during soldering.
- A grounding adapter with a spring lock device allows the connector to be temporarily secured onto the printed circuit board so that the connector can be soldered easily.

Standards

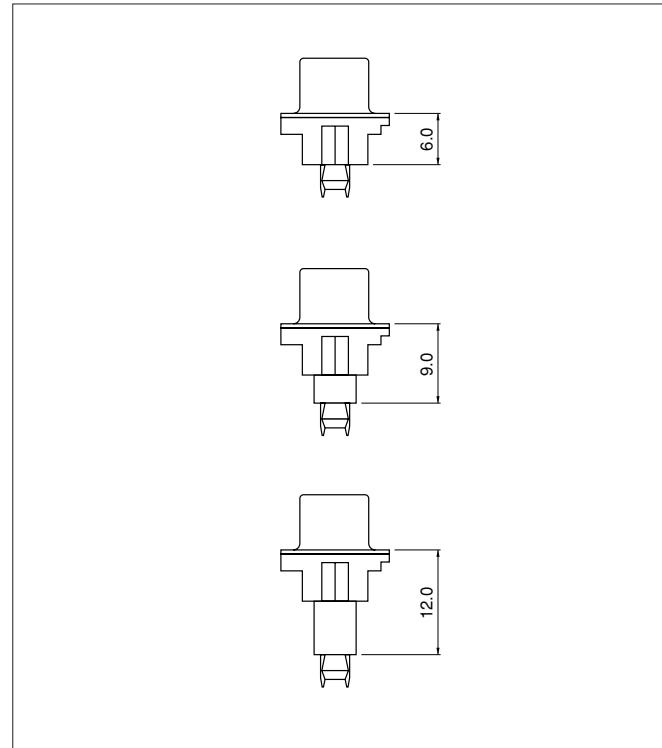
UL Recognized E60389

CE Certified LR20812

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.



D SUBMINIATURE CONNECTOR J SERIES

Specifications

Materials

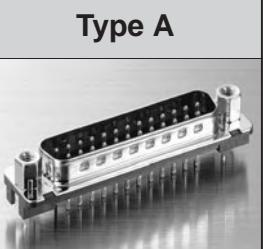
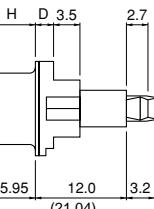
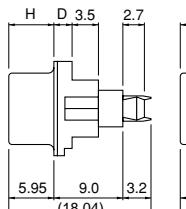
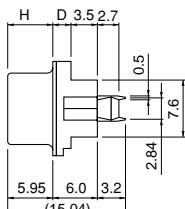
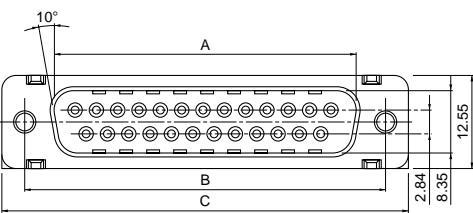
Part name		Material and Finish
Contact	Plug	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
	Socket	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Hexagonal lock screw block		Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device	Cutting product	Brass, nickel-undercoated, tin/copper alloy-plated
	Stamping product	Brass, tin-plated (reflow treatment)
Spring lock	Bail locks	Stainless steel
	Accepts bail locks	

Characteristics

Current rating	3A AC, DC
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

*Contact JST for details.

Straight through-hole plug



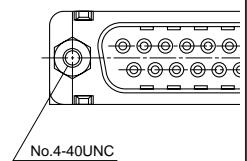
Type A
With hexagonal lock screw blocks(H:6.3mm)
having a No.4-40UNC inch thread

H: Height of the lock screw block (for Types A, B & J)

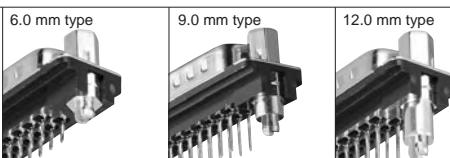
Circuits	Dimension between flange and solder tail (mm)	Model No.		Dimensions (mm)				Q'ty / box
		Gold-plated (flash) Plug	Gold-plated 0.76micron	A	B	C	D	
9	6	JES-9P-2A**	JES-9P-2A**14	16.90	24.99	30.8	2.4	100
	9	JES-9P-3A**	JES-9P-3A**14					
	12	JES-9P-4A**	JES-9P-4A**14					
25	6	JBS-25P-2A**	JBS-25P-2A**14	38.97	47.04	53.0	2.5	50
	9	JBS-25P-3A**	JBS-25P-3A**14					
	12	JBS-25P-4A**	JBS-25P-4A**14					

RoHS compliance This product displays (LF)(SN) A on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) plug with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters whose dimension between flange and solder tail is 6.0mm is required, specify the model number as JES-9P-3A3A.



With grounding adapters
with a spring lock device



3A

D SUBMINIATURE CONNECTOR J SERIES

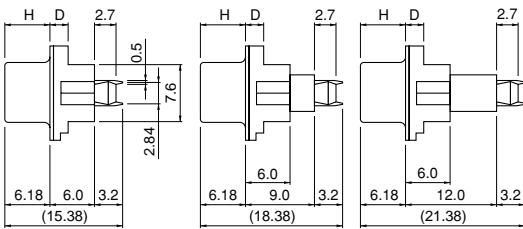
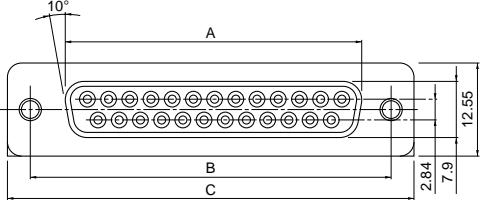
Model number identification

	J	B	S	-	25	P	-	2A	3	F	14	S1
• Series name												
• Shell size: B, E												
• Wire connection type: S ... Straight through-hole type												
• Number of circuits: 9, 25												
• Connector type: P ... Plug S ... Socket												
• Connector construction/dimensions: 2A ... 6.0 mm from flange to solder tail 3A ... 9.0 mm from flange to solder tail 4A ... 12.0mm from flange to solder tail												
• Types of grounding adapter: 3 ... Grounding adapter with a spring lock device (Cutting product), 7 ... Grounding adapter with a spring lock device (Stamping product)												
• Types of lock screw block: A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread B ... With hexagonal lock screw blocks having an M2.6 thread F ... Without lock screw blocks, but with grounding adapters having an No.4-40UNC inch thread												
G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread H ... Without lock screw blocks, but with grounding adapters having an M3 thread J ... With hexagonal lock screw block having an M3 thread												
• Finish of mating part Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated												
14 ... 0.76micron gold-plated 90 ... Tin-plated (reflow treatment)												
• Bail locks Blank...Without bail locks S or S1...With bail locks (bent oval type), S2...With bail locks (with addition of spring characteristic, bent oval type) S3...With bail locks (with addition of spring characteristic, Diamond type), S5...With bail locks (with addition of spring characteristic, straight oval type)												
<p>Note: 1. In the J Series, the number of circuits is determined by the shell size: 9 circuits for E and 25 circuits for B.</p> <p>2. Contact JST for special plating requirements.</p> <p>3. Contact JST for the dimensions between the flange and solder tail other than those listed above.</p> <p>4. Grounding adapters that can secure printed circuit boards are also available.</p> <p>5. Contact JST for the Receptacle with spring lock devices. (Not UL/CSA approved.)</p>												

Type B	Type F	Type G	Type H	Type J
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number SFS-4S-()1W(M)	*1: M2.6 thread *2: Model number SFS-2.6S-()1W(M)	*1: M3 thread *2: Model number SFS-3S-()1W(M)	
3B	3F	3G	3H	3J

D SUBMINIATURE CONNECTOR J SERIES

Straight through-hole socket



H: Height of the lock screw block (for Types A, B & J)

Circuits	Dimension between flange and solder tail (mm)	Model No.			Dimensions (mm)				Q'ty / box
		Gold-plated (flash) socket	Gold-plated 0.76micron	Tin-plated	A	B	C	D	
9	6	JES-9S-2A**	JES-9S-2A**14	—	16.34	24.99	30.8	2.4	100
	9	JES-9S-3A**	JES-9S-3A**14	—					
	12	JES-9S-4A**	JES-9S-4A**14	—					
25	6	JBS-25S-2A**	JBS-25S-2A**14	JBS-25S-2A**90	38.38	47.04	53.0	2.5	50
	9	JBS-25S-3A**	JBS-25S-3A**14	JBS-25S-3A**90					
	12	JBS-25S-4A**	JBS-25S-4A**14	—					

<Gold-plated product> RoHS compliance This product displays (LF)(SN) A on a label.

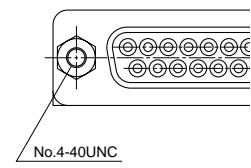
<tin-plated product> RoHS compliance This product displays (LF) A on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters whose dimension between flange and solder tail is 6.0mm is required, specify the model number as JES-9S-3A3A.

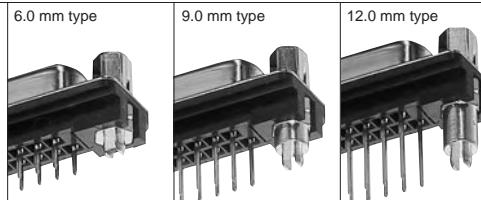
Type A



With hexagonal lock screw blocks (H:6.3mm) having a No.4-40UNC inch thread



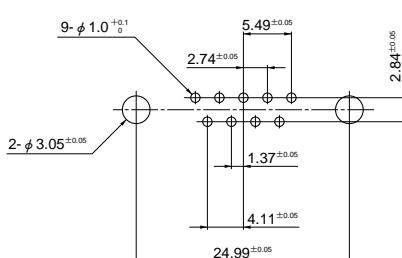
With grounding adapters with a spring lock device



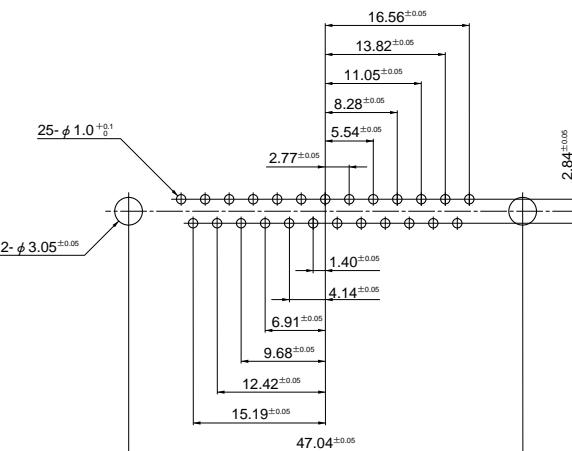
3A

PC board layout (viewed from component side)

(9-circuits)



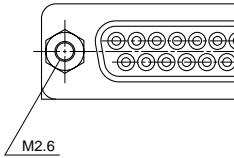
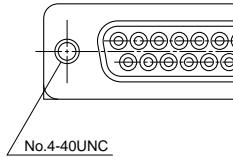
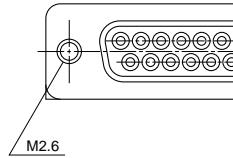
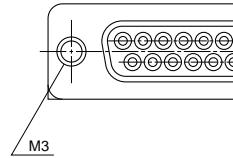
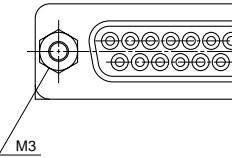
(25-circuits)



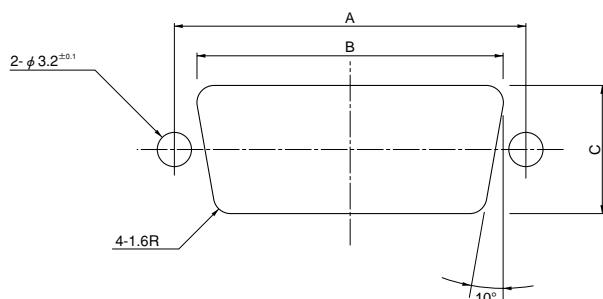
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

D SUBMINIATURE CONNECTOR J SERIES

Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number SFS-4S-()1W(M)	*1: M2.6 thread *2: Model number SFS-2.6S-()1W(M)	*1: M3 thread *2: Model number SFS-3S-()1W(M)	
				
3B	3F	3G	3H	3J

Panel layout



Circuits	A ± 0.15	B ± 0.2	C ± 0.2
9	24.99	20.6	12.0
25	47.04	42.6	12.0

Note: The dimensions above should serve as a guideline. Contact JST for details.



D-SUBMINIATURE CONNECTOR J SERIES

Crimp style plug and socket

CRIMP STYLE PLUG AND SOCKET



Pin contact

Socket contact

Features

- The contacts of this plug are formed by high-speed stamping presses into continuous strips that can be automatically fed into our compact crimping machines. Much less time is required to assemble CRT and RS-232C round cables using this plug than when soldering connections.
- The contacts in this connector are selectively gold-plated. Moreover, JST's advanced technological knowledge and

experience are fully utilized to significantly reduce production costs.

- The dimples in the connector shell provide the ground connection and are important factors in preventing electromagnetic interference. The contact has a lance that can be visually checked during assembly. This assures accurate assembly and reduces defects.

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment) tin-plated product: tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Model number identification

Contact

- Series name **J - S**
- Product shape: S ... Chain, B ... Loose piece
- Type of contact: P ... Pin contact, S ... Socket contact
- Applicable wire: 1 ... AWG #24 to #20, 2 ... AWG #28 to #24
- Material: 1 ... Brass(Pin contact), 3 ... Phosphor bronze(Socket contact)
- Finish
40 ... Gold-plated (flash), 42 ... 0.2micron gold-plated
43 ... 0.4micron gold-plated, 44 ... 0.76micron gold-plated, 90 ... Tin-plated (reflow treatment)

Note: Contact JST for special plating requirements.

Housing

- Series name **J E C - 9 P - 3**
- Shell size: E, A, B, C
- Wire connection style: C ... crimp style
- Number of circuits: 9, 15, 25, 37
- Connector style: P ... Plug, S ... Socket
- Plating specification of shell: 3 ... nickel-plated

Note: The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C

Characteristics

Current rating	3A, AC, DC (2A for 37-circuits)(AWG #20)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

Standards

Recognized E60389

Certified LR20812

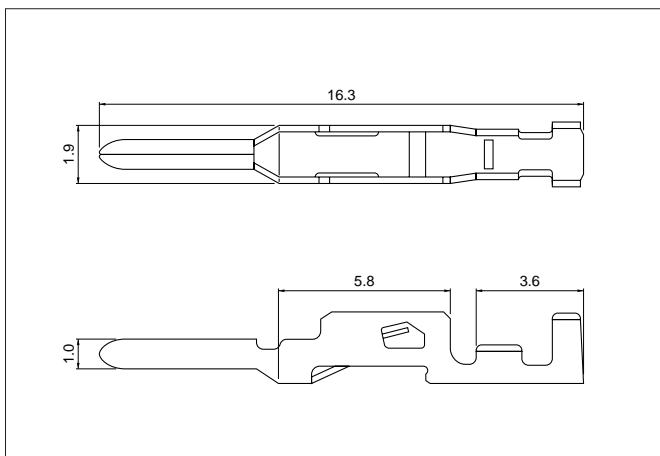
* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

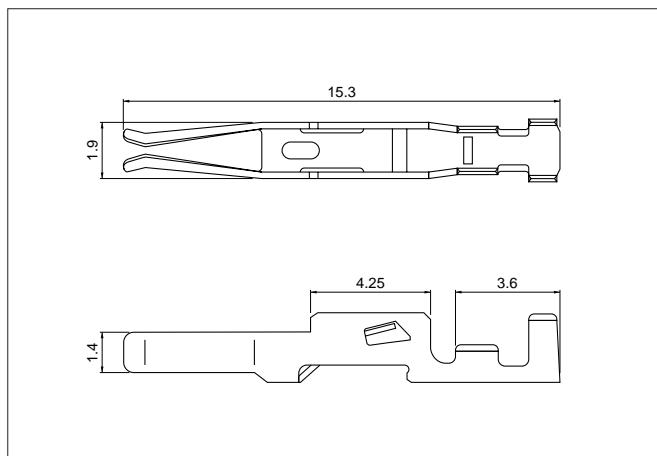
* Contact JST for details.

D SUBMINIATURE CONNECTOR J SERIES

Pin contact (for plug housing)



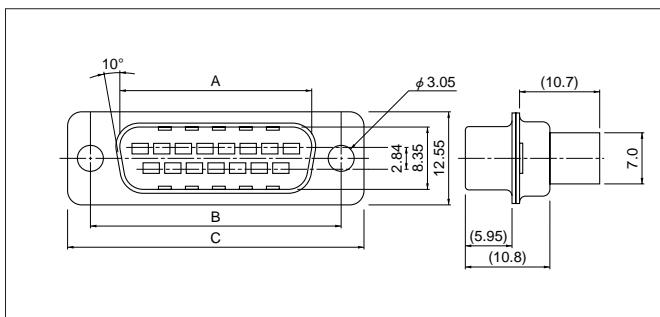
Socket contact (for socket housing)



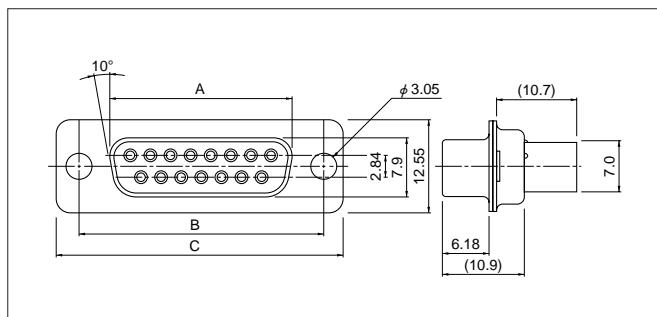
Model No.			Applicable wire		Q'ty / reel
Pin contact		Socket contact	AWG #	Insulation O.D. (mm)	
Gold-plated	Tin-plated	Gold-plated			
J-SP1140	J-SP1190	J-SS1340	# 24 ~ # 20	1.1 ~ 1.8	
J-SP2140	J-SP2190	J-SS2340	# 28 ~ # 24	0.9 ~ 1.3	10,000

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Plug housing



Socket housing



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
9	JEC-9P-3	16.92	24.99	30.80	100
15	JAC-15P-3	25.25	33.32	39.14	100
25	JBC-25P-3	38.97	47.04	53.04	50
37	JCC-37P-3	55.43	63.50	69.32	50

RoHS compliance

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
9	JEC-9S-3	16.34	24.99	30.80	100
15	JAC-15S-3	24.67	33.33	39.14	100
25	JBC-25S-3	38.38	47.04	53.04	50

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
J-SP1***	AP-K2N	MKS-L	MKJ-SP/SS1	APLMK J-SP/SS1
		*MKS-SC	SC/J-SP/SS1	APLSC J-SP/SS1
J-SS1***	AP-K2N	MKS-L	MKJ-SP/SS1	APLMK J-SP/SS1
		*MKS-SC	SC/J-SP/SS1	APLSC J-SP/SS1
J-SP2***	AP-K2N	MKS-L	MKJ-SP/SS2	APLMK J-SP/SS2
		*MKS-SC	SC/J-SP/SS2	APLSC J-SP/SS2
J-SS2***	AP-K2N	MKS-L	MKJ-SP/SS2	APLMK J-SP/SS2
		*MKS-SC	SC/J-SP/SS2	APLSC J-SP/SS2

Note: *Strip-crimp applicator



D SUBMINIATURE CONNECTOR JH SERIES

Right angle through-hole plug and socket

RIGHT ANGLE THROUGH-HOLE PLUG AND SOCKET



Right angle through-hole plug
(with hexagonal lock screw blocks)



Right angle through-hole socket (without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread)

Features

- The depth is trimmed to 8.5mm, reducing the surface mounting area by 33% compared with our J series subminiature connectors.
- The weight of the JH series is 10% lighter than our J series.
- EJH series D subminiature connectors with noise filters are available.

JH series	J series

Right angle through-hole plug							Type A	
Circuits	Model No.		Dimensions (mm)					Q'ty / box
	Gold-plated (flash) plug	Gold-plated 0.76micron	A	B	C	D	E	
9	JHEY-9P-1A**	JHEY-9P-1A**14	16.90	24.99	30.8	8.4	4.9	100
25	JHBY-25P-1A**	JHBY-25P-1A**14	38.97	47.04	53.0	8.5	5.0	40

RoHS compliance This product displays (LF)(SN) on a label.
Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a gold-plated (flash) receptacle with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as JHEY-9P-1A3A.

With grounding adapters with a spring lock device

No.4-40UNC

3A

D SUBMINIATURE CONNECTOR JH SERIES

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
	Socket	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Hexagonal lock screw block		Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device		Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	3A AC, DC
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

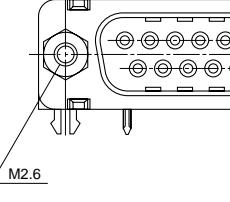
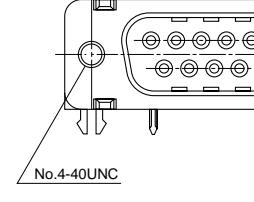
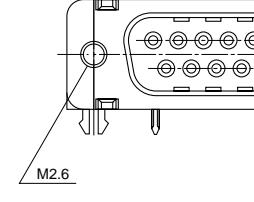
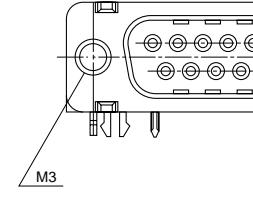
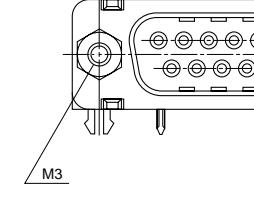
Standards

Recognized E60389 Certified LR20812

Model number identification

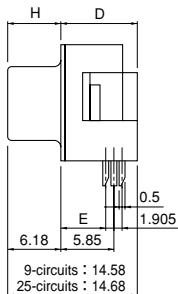
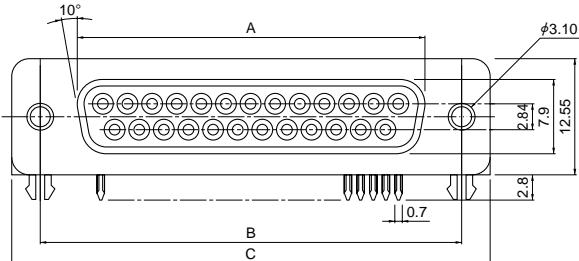
JH	B	Y	-	25	P	-	1A	3	F	14
<ul style="list-style-type: none"> • Series name 										
<ul style="list-style-type: none"> • Shell size: E, B 										
<ul style="list-style-type: none"> • Wire connection type: Y ... Right angle through-hole type 										
<ul style="list-style-type: none"> • Number of circuits: 9.25 										
<ul style="list-style-type: none"> • Connector type: P ... Plug, S ... Socket 										
<ul style="list-style-type: none"> • Connector construction/dimensions: Standard of the JH series right angle through-hole type 										
<ul style="list-style-type: none"> • Types of grounding adapter: 3 ... With grounding adapters having a spring lock device 										
<ul style="list-style-type: none"> • Type of lock screw block: A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread B ... With hexagonal lock screw blocks having an M2.6 thread F ... Without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread H ... Without lock screw blocks, but with grounding adapters having an M3 thread J ... With hexagonal lock screw blocks having an M3 thread 										
<ul style="list-style-type: none"> • Finish of mating part Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated 										

Note: Contact JST for special plating requirements.

Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number HFS-4S-()1W(M)	*1: M2.6 thread *2: Model number HFS-2.6S-()1W(M)	*1: M3 thread *2: Model number HFS-3S-()1W(M)	
 M2.6	 No.4-40UNC	 M2.6	 M3	 M3
3B	3F	3G	3H	3J

D SUBMINIATURE CONNECTOR JH SERIES

Right angle through-hole socket



H: Height of the lock screw block (for Types A, B & J)

Circuits	Model No.		Dimensions (mm)					Q'ty / box
	Gold-plated (flash) socket	Gold-plated [0.76micron] socket	A	B	C	D	E	
9	JHEY-9S-1A**	JHEY-9S-1A**14	16.34	24.99	30.8	8.4	4.9	100
25	JHBY-25S-1A**	JHBY-25S-1A**14	38.38	47.04	53.0	8.5	5.0	40

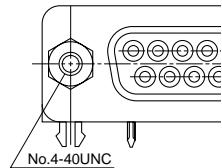
RoHS compliance This product displays (LF)(SN) on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as JHEY-9S-1A3A.

Type A



With hexagonal lock screw blocks
(H: 6.3mm)
having a No.4-40UNC
inch thread

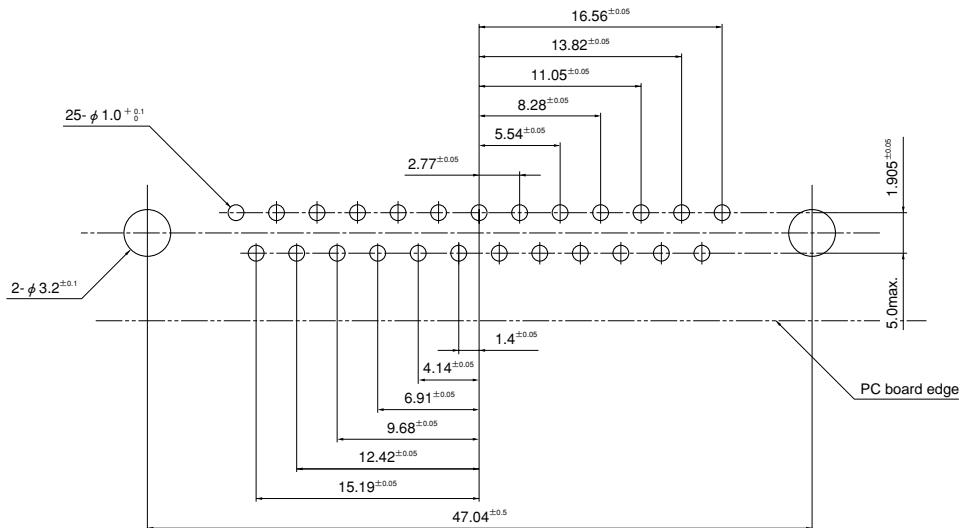


With grounding adapters
with a spring lock device



3A

PC board layout (viewed from component side)

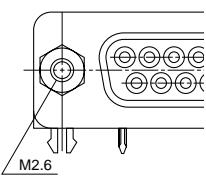
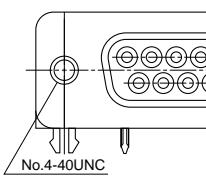
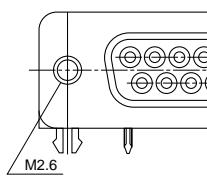
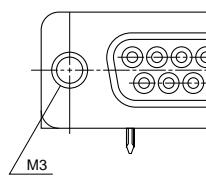
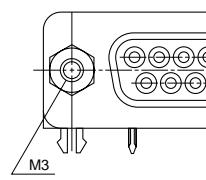


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

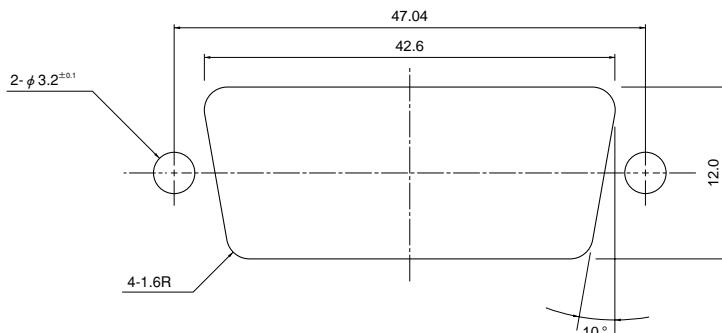
2. Hole dimensions differ according to the kind of PC board and piercing method.

The dimensions above should serve as a guideline. Contact JST for details.

D SUBMINIATURE CONNECTOR JH SERIES

Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number HFS-4S-()1W(M)	*1: M2.6 thread *2: Model number HFS-2.6S-()1W(M)	*1: M3 thread *2: Model number HFS-3S-()1W(M)	
				
3B	3F	3G	3H	3J

Panel layout



Note: The dimensions above should serve as a guideline. Contact JST for details.



D SUBMINIATURE CONNECTOR JK SERIES

Crimp style plug and socket

CRIMP STYLE PLUG AND SOCKET



Features

- The dimples in the shell provide the ground connection and are an important factor in preventing electromagnetic interference.
- The contact has a retention lance that makes assembly to the housing smooth and secure.

Standards

Recognized E60389 Certified LR20812

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, nickel-undercoated, Mating part; gld-plated Crimping part; tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, nickel-undercoated, Mating part; gld-plated Crimping part; tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	1.0A, AC, DC(AWG #24)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

Model number identification

Contact

• Series name	JK	-	S	P	2	1	40
• Product shape: S ... Chain, B ... Loose piece							
• Type of contact: P ... Pin contact, S ... Socket contact							
• Applicable wire: 2 ... AWG #28 to #24							
• Material: 1 ... Brass(Pin contact), 3 ... Phosphor bronze(Socket contact)							
• Finish of mating part							
40 ... Gold-plated (flash)							
43 ... 0.4micron gold-plated							
42 ... 0.2micron gold-plated							
43 ... 0.76micron gold-plated							

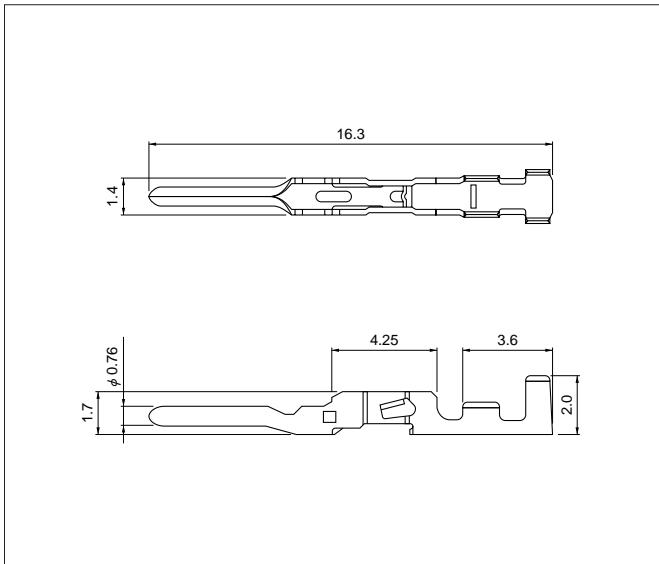
Note: Contact JST for special plating requirements.

Housing

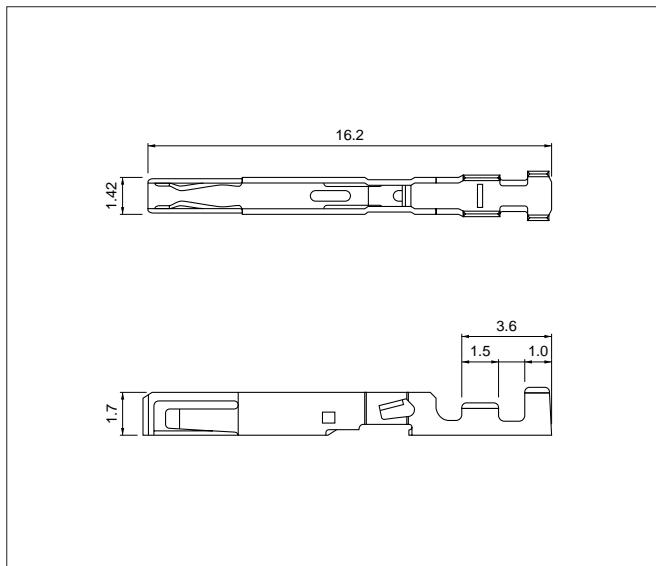
• Series name	K	E	C	-	15	P	-	3
• Shell size: E								
• Wire connection style: C ... Crimp style								
• Number of circuits: 15								
• Connector type: P ... Plug, S ... Socket								
• Plating specification of shell: 3 ... Copper-undercoated, nickel-plated								

D SUBMINIATURE CONNECTOR JK SERIES

Pin contact (for plug housing)



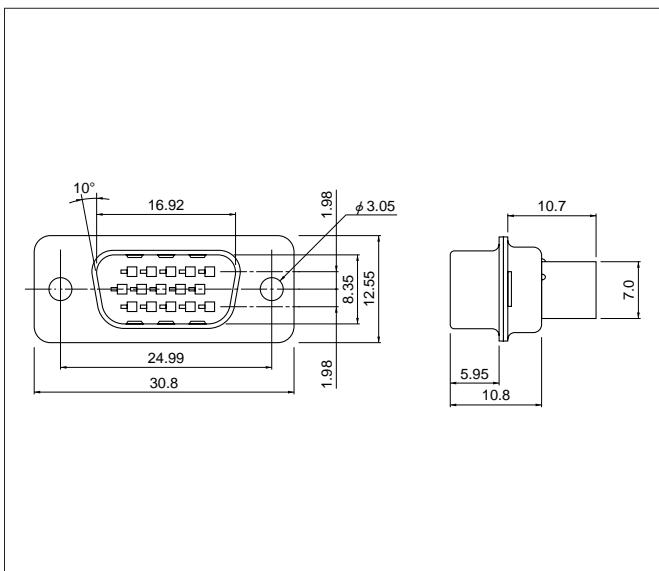
Socket contact (for socket housing)



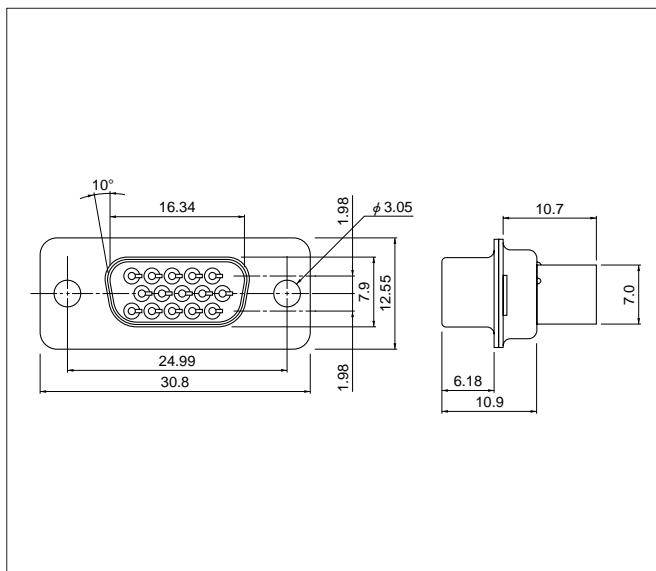
Model No.		Finish at mating part	Applicable wire		Q'ty / box
Pin contact	Socket contact		AWG #	Insulation O.D. (mm)	
JK-SP2140	JK-SS2340	Gold-plated (flash)	28 ~ 24	0.9 ~ 1.4	10,000
JK-SP2144	JK-SS2344	Gold-plated 0.76micron			

RoHS compliance This product displays (LF)(SN) on a label.

Plug housing



Receptacle housing



Circuits	Model No.	Q'ty / box
15	KEC-15P-3	100

Circuits	Model No.	Q'ty / box
15	KEC-15S-3	100

RoHS compliance

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
J-SP2***	AP-K2N	MKS-L	MK/JK-SP/SS2	APLMK JK-SP/SS2
		*MKS-SC-JK	SC/JK-SP/SS2	APLSC JK-SP/SS2
J-SS2***	AP-K2N	MKS-L	MK/JK-SP/SS2	APLMK JK-SP/SS2
		*MKS-SC-JK	SC/JK-SP/SS2	APLSC JK-SP/SS2

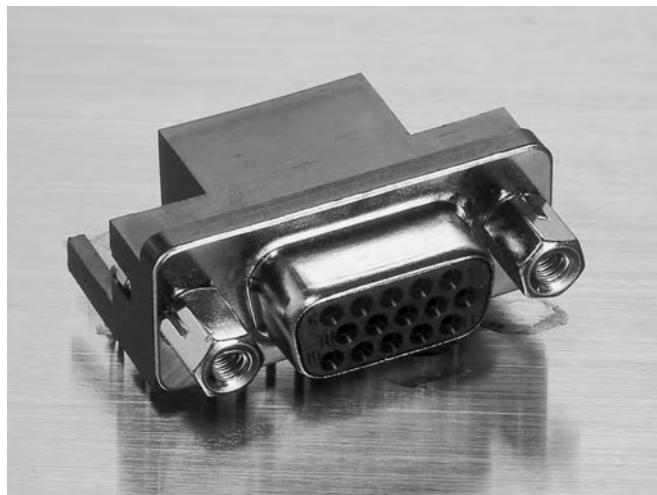
Note: *Strip-crimp applicator



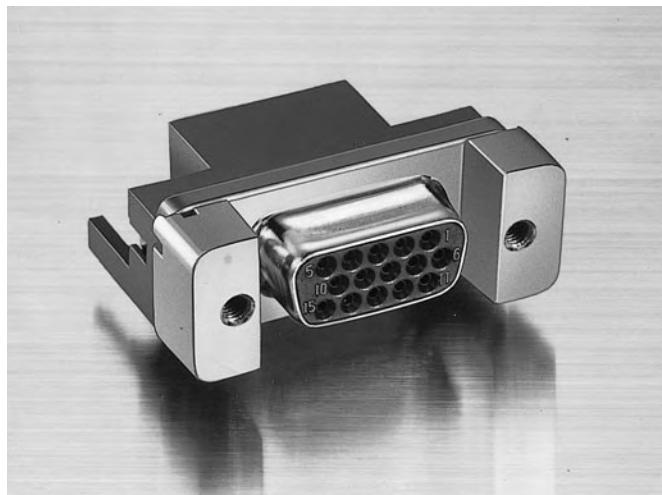
D SUBMINIATURE CONNECTOR JK SERIES

Right angle through-hole plug and socket

RIGHT ANGLE THROUGH-HOLE SOCKET



(with hexagonal lock screw blocks)



(with rectangular lock screw blocks)

Features

- The mating section of the contact has a twin-contact style construction with uniform elasticity to ensure a reliable contact even when repeatedly mated and unmated.

Standards

Recognized E60389 Certified LR20812

- A wide variety of grounding adapters are available so that the receptacle can be grounded to the circuitry of a printed circuit board to prevent electromagnetic interference.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Specifications

Materials

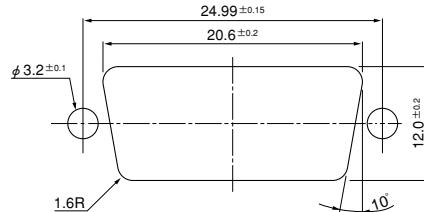
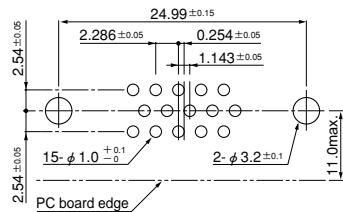
Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator	Glass-filled PBT, UL94V-0, black
Shell	Steel, copper-undercoated, nickel-plated
Grounding adapter having a 3.2mm dia. hole	Steel, copper-undercoated, nickel-plated
Grounding adapter having an M3 tapped hole	Steel, copper-undercoated, nickel-plated
Grounding adapter having a spring lock device	Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

PC board layout (viewed from component side)



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method.

The dimensions above should serve as a guideline. Contact JST for details.

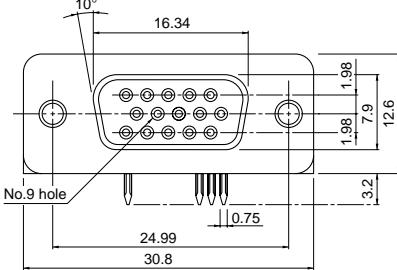
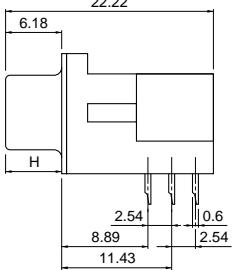
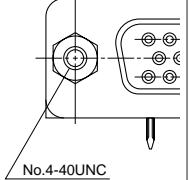
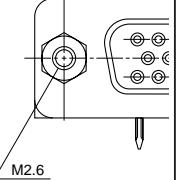
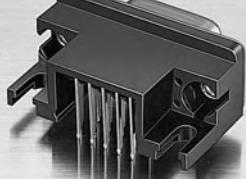
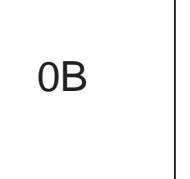
D SUBMINIATURE CONNECTOR JK SERIES

Model number identification

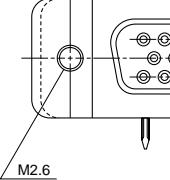
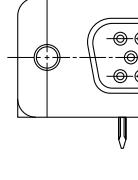
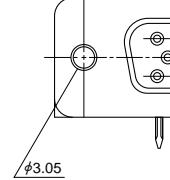
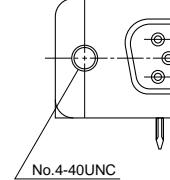
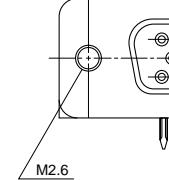
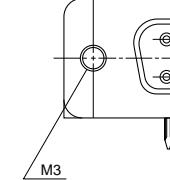
• Series name	K	E	Y	-	15	S	-	2A	3	A	14	-	23
• Shell size: E													
• Wire connection type: Y ... Right angle through-hole style													
• Number of circuits: 15													
• Connector type: S ... Socket													
• Connector construction/Dimensions: Standard of the series													
• Types of grounding adapters													
0 ... Without grounding adapters													
1 ... With grounding adapters having a 3.2mm dia. hole													
2 ... With grounding adapters having an M3 thread													
3 ... With grounding adapters having a spring lock device (1)													
4 ... With grounding adapters having a spring lock device (2)													
• Types of lock screw blocks													
A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread													
B ... With hexagonal lock screw blocks having an M2.6 thread													
C ... With rectangular lock screw blocks having an M2.6 thread													
D ... Without lock screw blocks													
E ... Without lock screw blocks, but with grounding adapters having a 3.05mm dia. hole													
F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread													
G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread													
H ... Without lock screw blocks, but with grounding adapters having an M3 thread													
• Finish of mating part													
Blank ... Gold-plated (flash)													
12 ... 0.2micron gold-plated													
13 ... 0.4micron gold-plated													
14 ... 0.76micron gold-plated													
• Blocked hole for keying ... Blank: all holes open, 23: #9 hole blocked													

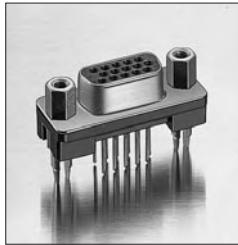
Note: Contact JST for special plating requirements.

D SUBMINIATURE CONNECTOR JK SERIES

Right angle through-hole socket		Type A	Type B
		 With hexagonal lock screw blocks(H: 6.3mm) having a No.4-40UNC inch thread	 With hexagonal lock screw blocks(H: 6.3mm) having an M2.6 thread
	 		
	H: Height of the lock screw block (for Types A, B & C)		
Circuits	Model No.	Q'ty / box	
15	Gold-plated (flash) socket KEY-15S-2A**	100 (☆)	 No.4-40UNC
	Gold-plated (0.76micron)socket with No.9 hole blocked KEY-15S-2A**14-23		 M2.6
	RoHS compliance This product displays (LF)(SN) on a label. Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 15-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and without grounding adapters is required, specify the model number as KEY-15S-2A0A. (☆) Type C...60		
Without grounding adapters			 0A 0B
With grounding adapters with a 3.2mm dia. hole			 1A 1B
With grounding adapters with an M3 thread			 2A 2B
With grounding adapters with a spring lock lever (1)			 3A 3B
With grounding adapters with a spring lock device (2)			— —

D SUBMINIATURE CONNECTOR JK SERIES

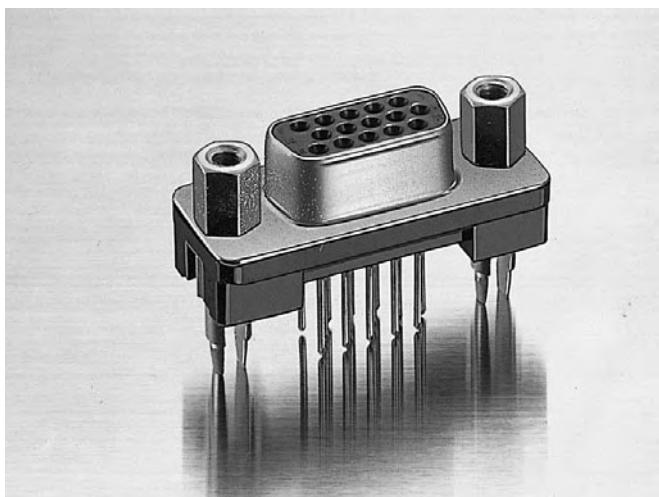
Type C	Type D	Type E	Type F	Type G	Type H	
						
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)	Used a lock screw block [model number KFS-()S-C1N]	*1: No.4-40UNC inch thread *2: Model number KFS-4S-()1W(M)	*1: M2.6 thread *2: Model number KFS-2.6S-()1W(M)	*1: M3 thread *2: Model number KFS-3S-()1W(M)
						
0C	0D	—	—	—	—	
1C	1D	1E	1F	1G	—	
2C	2D	2E	2F	2G	—	
3C	3D	3E	3F	3G	—	
—	—	—	—	—	4H	



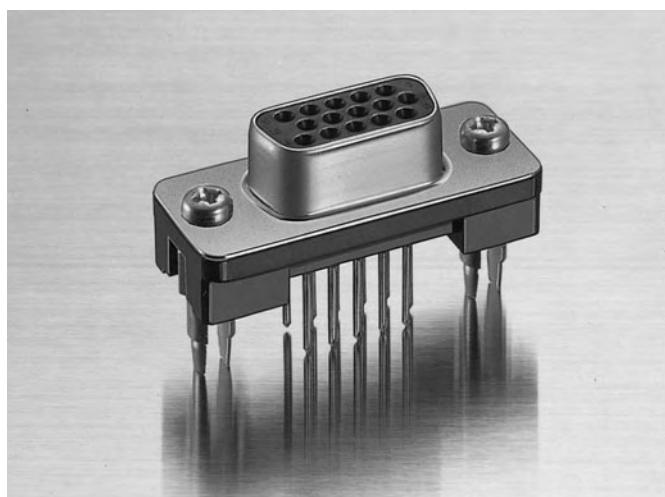
D SUBMINIATURE CONNECTOR JK SERIES

Straight through-hole socket

STRAIGHT THROUGH-HOLE SOCKET



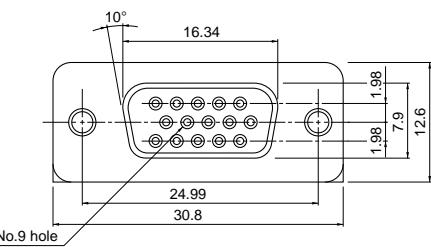
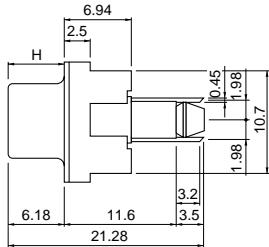
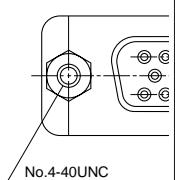
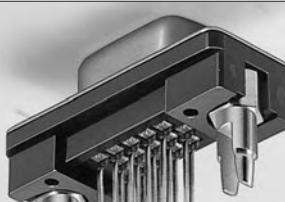
(with hexagonal lock screw blocks)



(without lock screw blocks)

Features

- The mating section of the contact has a twin-contact style construction with uniform elasticity to ensure a reliable contact even when repeatedly mated and unmated.
- A grounding adapter with a spring lock device allows the connector to be temporarily secured on the printed circuit board so that the connector can be soldered easily.

Straight through-hole socket				Type A
				 With hexagonal lock screw blocks (H: 6.3mm) having a No.4-40UNC inch thread
	 			
H: Height of the lock screw block (for Types A & B)				
Circuits	Model No.		Q'ty / box	
15	Gold-plated (flash) socket KES-15S-2A**	Gold-plated (0.76micron)socket with No.9 hole blocked KES-15S-2A**14-23	100	
With grounding adapters with a spring lock device				3A

D SUBMINIATURE CONNECTOR JK SERIES

Standards

Recognized E60389 Certified LR20812

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment)
Insulator	Glass-filled PBT, UL94V-0, black
Shell	Steel, copper-undercoated, nickel-plated
Grounding adapter	Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

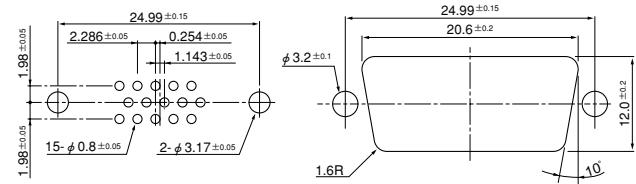
Note: Contact JST for details.

Model number identification

• Series name	K	E	S	-	15	S	-	2A	3	A	14	-	23
• Shell size: E													
• Wire connection type: S ... Straight through-hole type													
• Number of circuits: 15													
• Connector type: S ... Socket													
• Connector construction/dimensions: Standard JK series straight through-hole type													
• Type of grounding adapters													
3 ... With grounding adapters having a spring lock device													
• Type of lock screw blocks													
A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread													
B ... With hexagonal lock screw blocks having an M2.6 thread													
D ... Without lock screw blocks													
F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread													
G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread													
H ... Without lock screw blocks, but with grounding adapters having an M3 thread													
• Finish of mating part													
Blank ... Gold-plated (flash)													
12 ... 0.2micron gold-plated													
13 ... 0.4micron gold-plated													
14 ... 0.76micron gold-plated													
• Blocked hole for keying ... Blank: all holes open, 23: #9 hole blocked													

Note: Contact JST for special plating requirements.

PC board layout (viewed from component side) and Panel layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Type B	Type D	Type F	Type G	Type H
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)	*1: No.4-40UNC inch thread *2: Model number JFS-4S-()1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-()1W(M)
3B	3D	3F	3G	3H



SUBMINIATURE D CONNECTOR KH SERIES

Right angle through-hole socket

RIGHT ANGLE THROUGH-HOLE SOCKET



(with hexagonal lock screw blocks)



(without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread)

Features

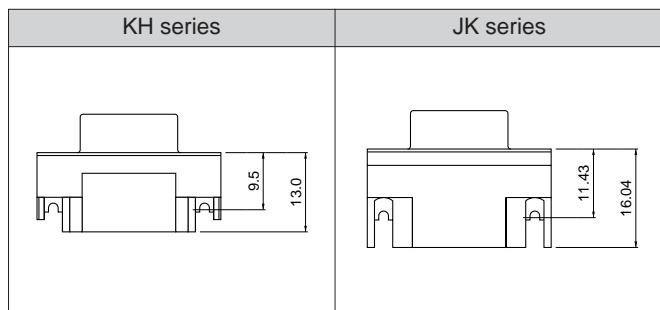
- The depth is trimmed to 13.0mm, reducing the surface mounting area by 20% compared with our JK series subminiature connectors.

- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812



Right angle through-hole socket		Type A
		With hexagonal lock screw blocks(H:6.3mm) having a No.4-40UNC inch thread

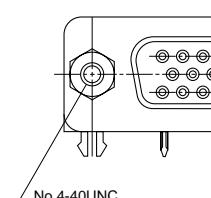
H: Height of the lock screw block (for Types A, B & J)

Cir-cuits	Model No.		Q'ty / box
	Gold-plated (flash) receptacle	Gold-plated (0.76micron) receptacle	
15	KHEY-15S-1A**	KHEY-15S-1A**14	100

RoHS compliance This product displays (LF)(SN) A on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 15-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No.4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as KHEY-15S-1A3A.

With grounding adapters
with a spring lock device



3A

D SUBMINIATURE CONNECTOR KH SERIES

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator	Glass-filled PBT, UL94-0, black
Shell	Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device	Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

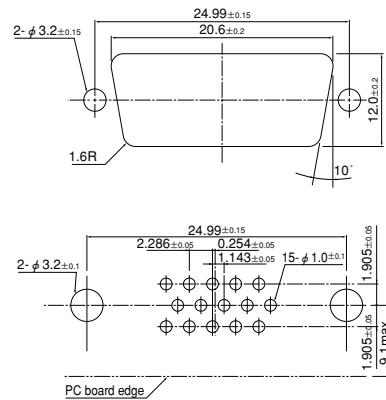
Current rating	1.0A,AC,DC
Voltage rating	250V,AC,DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	AC1,000V/minute
Applicable PC board thickness	1.6mm

*Contact JST for details.

PC board layout (viewed from component side) and Panel layout

KH E Y - 15 S - 1A 3 A 14
• Series name
• Shell size: E
• Wire connection type: Y ... Right angle through-hole type
• Number of circuits: 15
• Connector type: S ... Socket
• Connector construction/dimensions: Standard KH series right angle through-hole type
• Types of grounding adapter: 3 ... With grounding adapters having a spring lock device
• Type of lock screw block: A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread B ... With hexagonal lock screw blocks having an M2.6 thread F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread H ... Without lock screw blocks, but with grounding adapters having an M3 thread J ... With hexagonal lock screw blocks having an M3 thread
• Finish of mating part Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated

Note: Contact JST for special requirements.



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Type B	Type D	Type F	Type G	Type H
With hexagonal lock screw blocks(H:6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks(H:6.3mm) having an M3 thread
 M2.6	 No.4-40UNC	 M2.6	 M3	 M3
3B	3F	3G	3H	3J



SUBMINIATURE D CONNECTOR J&JK SERIES

Accessories/EMI prevention shielding cover (J cover)

J COVER



J cover



Features

- This shielding cover is made of steel, formed by our advanced stamping technology, and nickel-plated.
- The box-shaped cover completely encloses such EMI radiating areas as the connections between the connector and wires. The result is a superior shielding effect.
- To install the shielding cover, simply align and press the upper and lower cover elements, then tighten the nuts. It then securely grips the round cables.
- This cover is so compact, light and sturdy, that it can be used to cover the connectors of any input/output cable. Moreover, it is attractive in appearance.
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

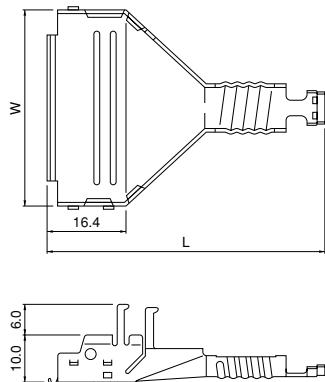
Standards

Recognized E60389

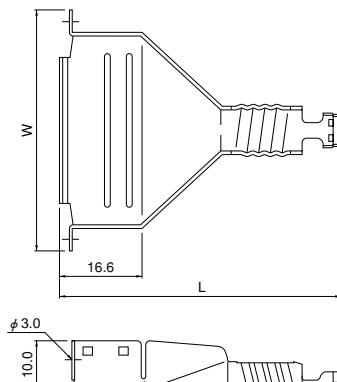
Applicable cable dimensions

Circuits	J series	9	15	25	37
	JK series	15	—	—	—
Cable outer diameter (mm)		7.0 \pm 0.2		8.0 \pm 0.2	10.0 \pm 0.2

Shielding cover A



Shielding cover B



J series		JK series		Dimensions (mm)		Q'ty / box
Circuits	Model No.	Circuits	Model No.	W	L	
9	J-SC9A	15	JK-SC15A	19.4	42.0	200
15	J-SC15A	—	—	27.6	46.9	150
25	J-SC25A	—	—	41.4	57.0	100
37	J-SC37A	—	—	57.8	70.6	125

Material and Finish

Steel, copper-undercoated, nickel-plated

Circuits		Model No.	Dimensions (mm)		Q'ty / box
J series	JK series		W	L	
9	15	J-SC9B	30.0	(42.0)	200
15	—	J-SC15B	38.0	(46.9)	150
25	—	J-SC25B	52.0	(57.0)	150
37	—	J-SC37B	68.0	(70.6)	100

Material and Finish

Steel, copper-undercoated, nickel-plated

RoHS compliance

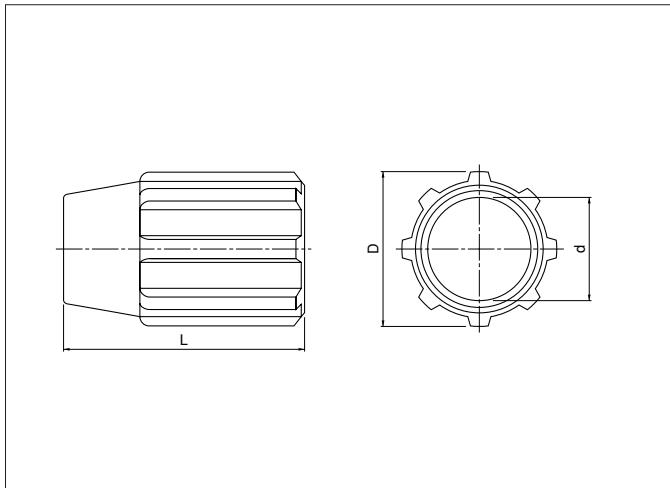
Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector, except for the number of circuits indicated.

RoHS compliance

Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector.

D SUBMINIATURE CONNECTOR J&JK SERIES

Cover nut



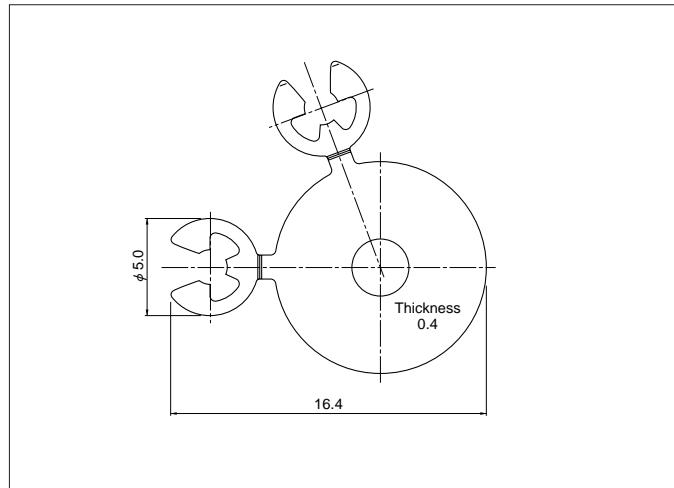
Circuits	Model No.	D	d	L	Q'ty / box
9	J-CN9 • 15	13.6	7.2	19.0	1,000
15					
25	J-CN25	16.4	8.4	25.0	1,000
37	J-CN37	18.8	10.4	28.0	1,500

Material

Glass-filled, PBT, UL94V-0, black

RoHS compliance

E-ring

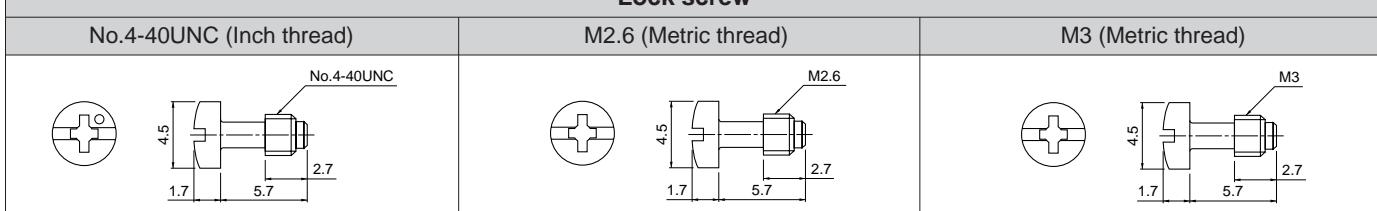


Model No.	Q'ty / box
J-ER	5,000
Material	
Stainless steel	

RoHS compliance

Note: The cover nuts, lock screws and E-rings are used with both the J and JK series connectors.

Lock screw



Type of screw	Model No.	Q'ty / box
No.4-40UNC (Inch thread)	J-SL-1C	5,000
M2.6 (Metric thread)	J-SL-2C	5,000
M3 (Metric thread)	J-SL-3C	5,000

Material and Finish

Steel, copper-undercoated, nickel-plated

RoHS compliance

Use the following Model Nos. when ordering J-covers as a set.

J series		JK series		Parts in one set	Q'ty / box
Circuits	Model No.	Circuits	Model No.		
9	J-C9-()C	15	JK-C15-()C	Shielding cover A 1 pc.	25
15	J-C15-()C	—	—	Shielding cover B 1 pc.	25
25	J-C25-()C	—	—	Cover nut 1 pc.	20
37	J-C37-()C	—	—	Lock screw 2 pcs.	10
				E-ring 1 set	

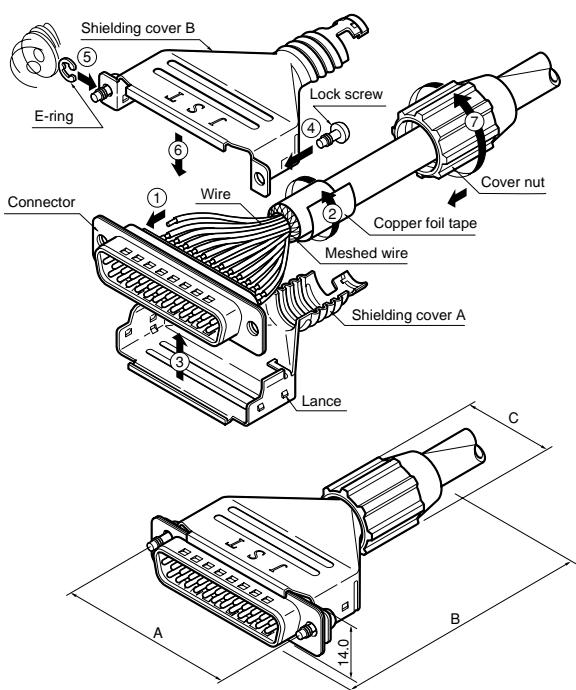
RoHS compliance

Note: In the above lock screw model numbers, the number in parentheses indicates the type of screw-1: Inch thread (No.4-40UNC), 2: Metric thread (M2.6), 3: Metric thread (M3).

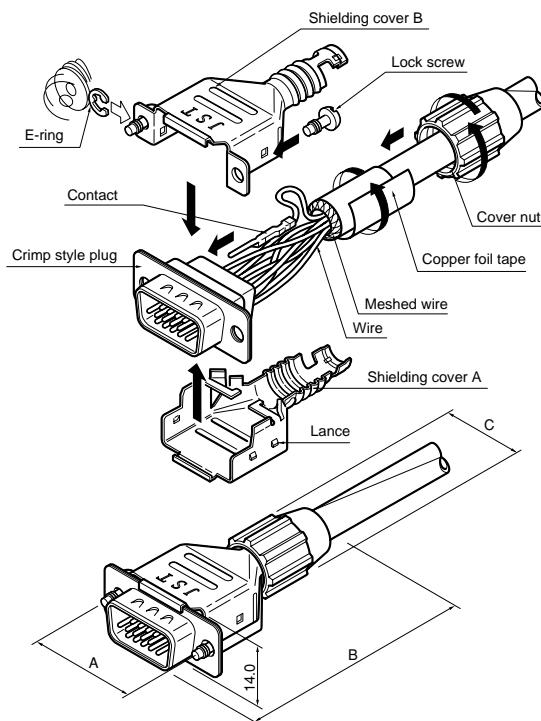
D SUBMINIATURE CONNECTOR J&JK SERIES

J-cover assembly procedure

J series



JK series



Assembly procedure

1. Connect wires to the connector by soldering or crimping.
2. Fold back the braided shielding wire along the outside insulation and wind the copper foil tape around the shielding wire.
3. Install the connector into shielding cover A.
4. Screw the lock screws onto shielding cover B.
5. Install the E-rings.
6. Align shielding cover B with shielding cover A and press shielding cover B until it engages the lances of shielding cover A.
7. Tighten the cover nut until the predetermined position is reached.

Note: For details of the J-cover assembly procedure, please refer to the processing specifications separately available. The shielding effect of the J-cover is critically dependent on proper assembly.

Dimensions after assembly

Circuits		Dimensions (mm)		
J series	JK series	A	B	C
9	15	24.99	(49.0)	13.6
15	—	33.32	(53.0)	13.6
25	—	47.04	(64.5)	16.4
37	—	63.50	(78.5)	18.9



D SUBMINIATURE CONNECTOR J&JK SERIES

Accessories/EMI prevention overmolding cover

MOLD COVER



Features

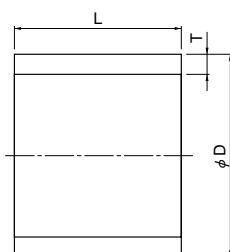
- This cover completely encloses all wire connections to the connector, and its braided wire crimp section ensures a reliable ground connection. The result is excellent shielding.
- This cover is sturdy enough to withstand the high pressure necessary during overmolding. It can thus be finish-molded directly.
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Applicable cable diameter

Circuits		Cable O.D.(mm)		
J series	JK series			
9	15		8.6 ^{±0.2}	
15	—		7.6 ^{±0.2}	
25	—		8.6 ^{±0.2}	

Note: Contact JST for cables other than those listed above.

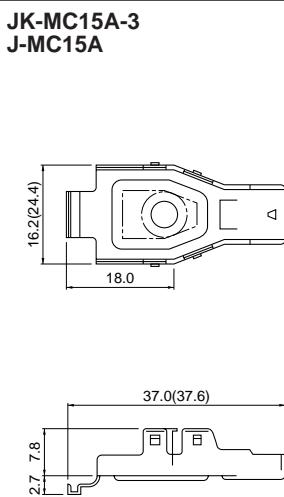
Ferrule



J series	JK series	Ferrule	Dimensions (mm)		
			φ D	T	L
9 • 25	15	A	8.0	0.5	4.0
		B	11.3	0.6	8.0
15	—	A	7.0	0.5	4.0
		B	10.5	0.6	8.0

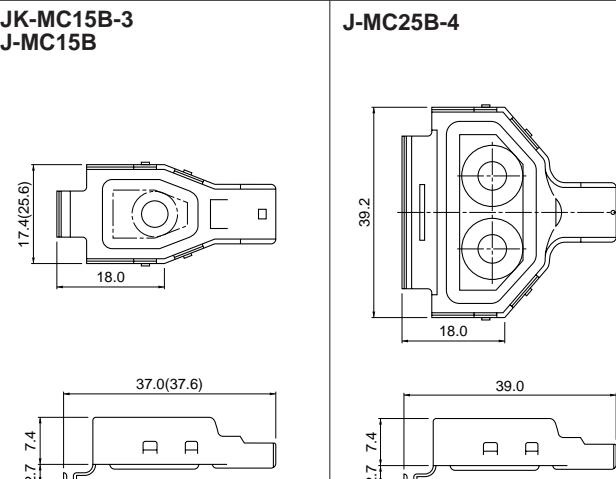
RoHS compliance

Mold cover A



*Dimensions in () are those for the J-MC15A.

Mold cover B

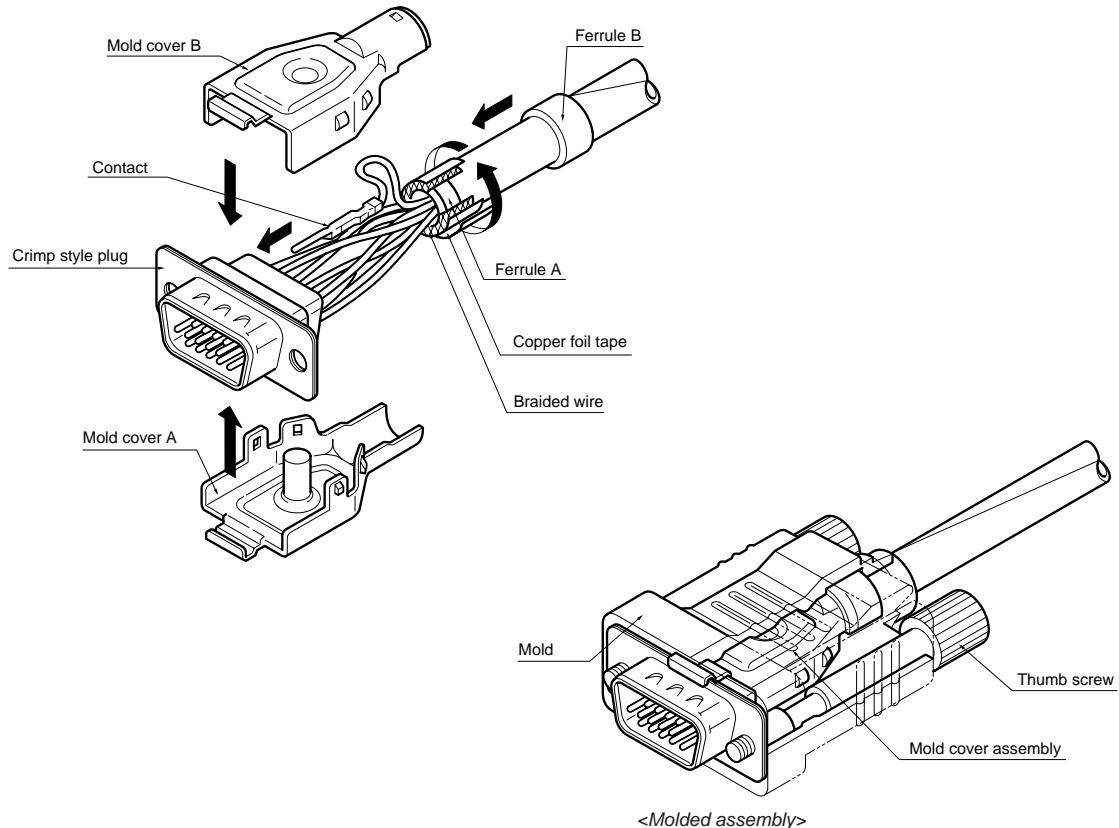


*Dimensions in () are those for the J-MC15B.

RoHS compliance

D SUBMINIATURE CONNECTOR J&JK SERIES

Mold cover assembly procedure



Note: Contact JST for thumb screws.

Assembly procedure

1. Processing braided shielding wire

Pass the cable through ferrule B and remove the insulation at the end of the cable. Install ferrule A and fold back the braided shielding wire along the outside insulation. Then wind the copper foil tape around the shielding wire.

2. Connecting the wires to the contacts

Connect the wires to the contacts by crimping and insert the contacts into the housing.

3. Assembling the mold covers

Align mold cover B with mold cover A and press mold cover B until it engages the lances of mold cover A. Install ferrule B over the cable holding section of the cover assembly and crimp ferrule B. This completes the assembly.

Circuits		Parts name	Model No.	Material and Finish	Q'ty / box or bag
J series	JK series				
9	15	Mold cover A	JK-MC15A-3	Steel, copper-undercoated, nickel-plated	500
		Mold cover B	JK-MC15B-3		
		Ferrule A	JK-FL15A-8.0C	Copper, tin-plated	1,000
		Ferrule B	JK-FL15B-11.3		500
15	—	Mold cover A	J-MC15A	Steel, copper-undercoated, nickel-plated	200
		Mold cover B	J-MC15B		
		Ferrule A	J-FL15A-7.0C	Copper, tin-plated	1,000
		Ferrule B	J-FL15B-10.5		500
25	—	Mold cover A	J-MC25A-4	Steel, copper-undercoated, nickel-plated	250
		Mold cover B	J-MC25B-4		
		Ferrule A	JK-FL15A-8.0C	Copper, tin-plated	1,000
		Ferrule B	JK-FL15B-11.3		500

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
JK-FL15B-11.3	AP-K2N	MKS-L-RG	MK/JK-MC15	APLMK JK-MC15
J-FL15B-10.5			MK/J-MC15	APLSC JK-MC15

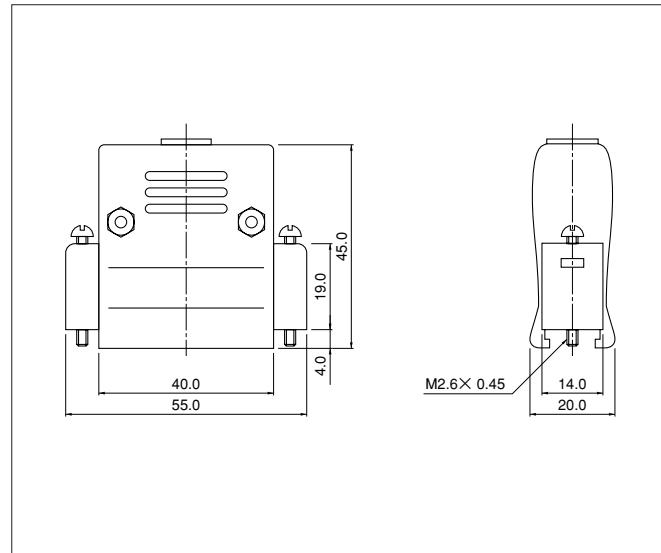


SUBMINIATURE CONNECTOR

J&JK SERIES

Accessories/Covers

EMI SHIELDING ALUMINUM DIE-CAST COVER (for 25-circuit J series connectors)



Features

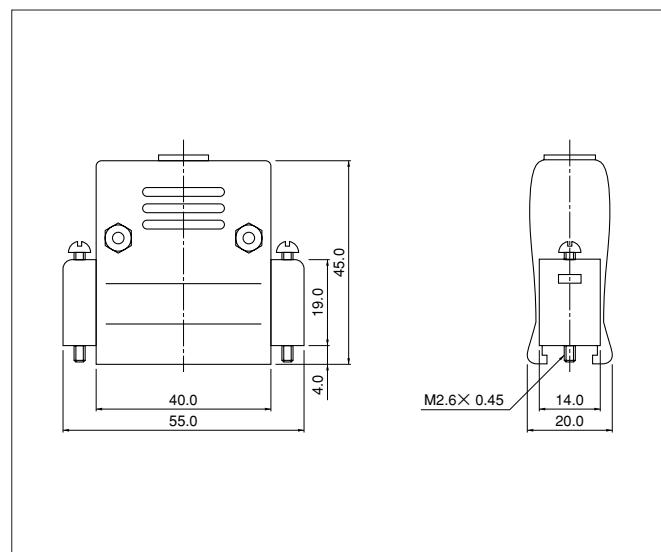
- This cover is made of aluminum die-cast .
 - The D subminiature connector and all its wire connections can be completely covered to provide excellent shielding.
 - This EMI shielding cover can be used together with the hexagonal and rectangular metric lock screws specified in JIS-C-6361.
- This cover is ideally suited for RS-232C cable connectors.

Model No.	Parts in one set	Cover material	Q'ty / box
JCB-25EM	Cover A - 1 pc. Cover B - 1 pc. Lock screw - 2 pcs. Cable clamp - 2 pcs. Cover screws and nuts - 2 pcs. for each Clamp screws - 4 pcs.	Aluminum die-cast	10

RoHS compliance

- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

JIS STYLE PLASTIC COVER (for 25-circuit J series connectors)



Features

- Molded plastic cover.
 - This cover can be used together with the hexagonal and rectangular metric lock screws specified in JIS-C-6361.
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Model No.	Parts in one set	Cover material	Q'ty / box
JCB-25M	Covers - 2 pcs. Lock screw - 2 pcs. Cable clamp - 2 pcs. Cover screws and nuts - 2 pcs. for each Clamp screws - 2 pcs.	ABS resin	10

RoHS compliance



D SUBMINIATURE CONNECTOR J·JH·JK & KH SERIES

Accessories/Lock screw block

A variety of accessories are available for the D subminiature connectors.

LOCK SCREW BLOCK

		Hexagonal lock screw block (inch thread: No.4-40UNC)	
No.4-40UNC	4.78	Type A	Type B
L	H	No.4-40UNC	No.4-40UNC

Applicable series Dimension / Model No.	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-4S-C1N	KFS-4S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-4S-B1W	KFS-4S-B1W	SFS-4S-B1W	HFS-4S-B1W	4.8		Spring washer .. 1 pc.	
	JFS-4S-C1W	KFS-4S-C1W	SFS-4S-C1W	HFS-4S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-4S-B1WM	KFS-4S-B1WM	SFS-4S-B1WM	HFS-4S-B1WM	4.8			
	JFS-4S-C1WM	KFS-4S-C1WM	SFS-4S-C1WM	HFS-4S-C1WM	5.5			

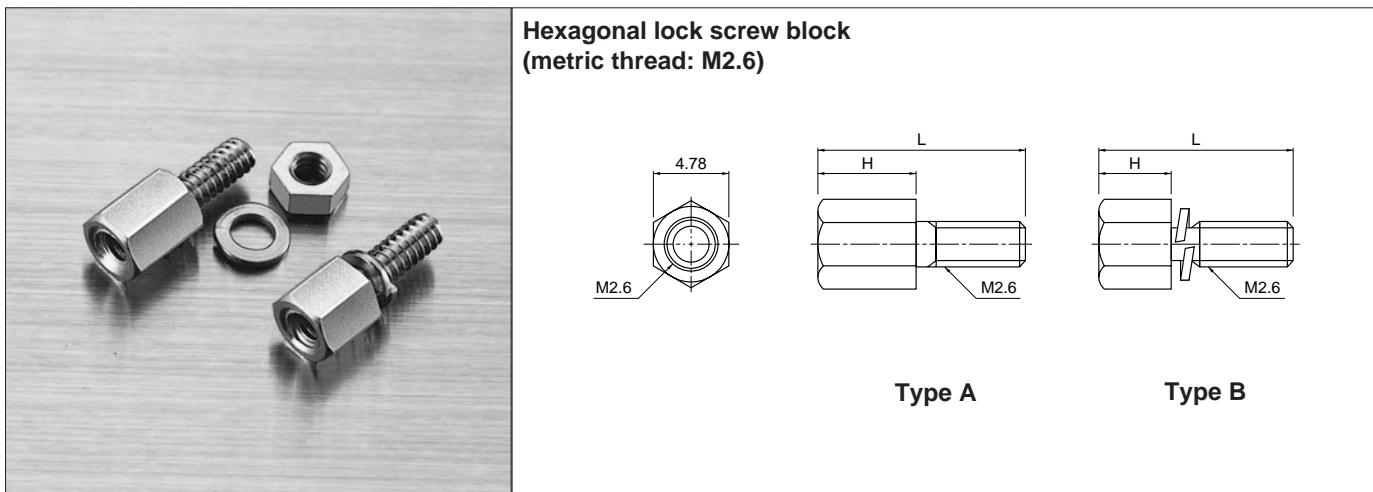
RoHS compliance

		Hexagonal lock screw block (metric thread: M3)	
M3	4.78	Type A	Type B
L	H	M3	M3

Applicable series Dimension / Model No.	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-3S-C1N	KFS-3S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-3S-B1W	KFS-3S-B1W	SFS-3S-B1W	HFS-3S-B1W	4.8		Spring washer .. 1 pc.	
	JFS-3S-C1W	KFS-3S-C1W	SFS-3S-C1W	HFS-3S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-3S-B1WM	KFS-3S-B1WM	SFS-3S-B1WM	HFS-3S-B1WM	4.8			
	JFS-3S-C1WM	KFS-3S-C1WM	SFS-3S-C1WM	HFS-3S-C1WM	5.5			

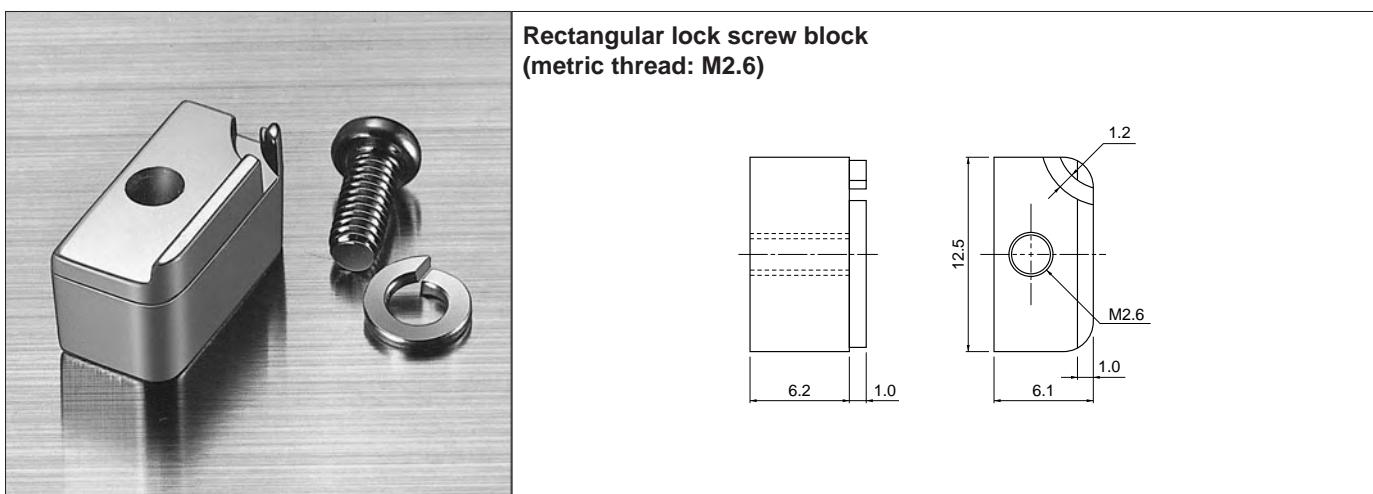
RoHS compliance

D SUBMINIATURE CONNECTOR J·JH·JK & KH SERIES



Applicable series Dimension / Model No.	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box	
Dimension L (mm)	13.1	15.0	10.0	11.8					
Model No.	JFS-2.6S-C1N	KFS-2.6S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000	
	JFS-2.6S-B1W	KFS-2.6S-B1W	SFS-2.6S-B1W	HFS-2.6S-B1W	4.8		Spring washer .. 1 pc.		
	JFS-2.6S-C1W	KFS-2.6S-C1W	SFS-2.6S-C1W	HFS-2.6S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated		
	JFS-2.6S-B1WM	KFS-2.6S-B1WM	SFS-2.6S-B1WM	HFS-2.6S-B1WM	4.8				
	JFS-2.6S-C1WM	KFS-2.6S-C1WM	SFS-2.6S-C1WM	HFS-2.6S-C1WM	5.5				

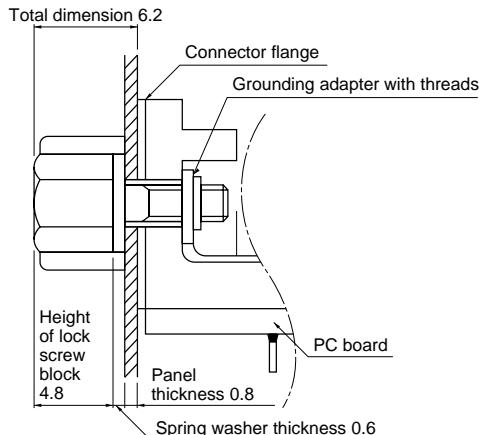
RoHS compliance



Model No.	Attachment	Q'ty / box
JFS-2.6R-N	Spring washer – 1 pc. Set screw – 1 pc.	1,000

RoHS compliance

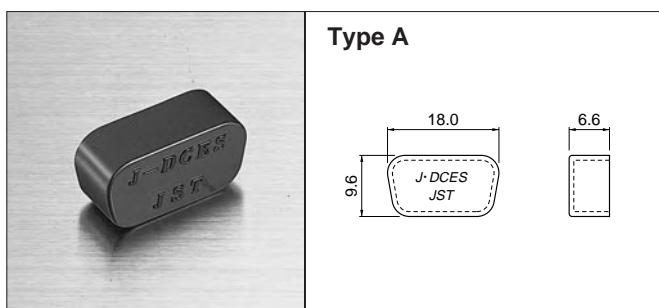
D SUBMINIATURE CONNECTOR J·JH·JK & KH SERIES



Application examples of hexagonal lock screw blocks

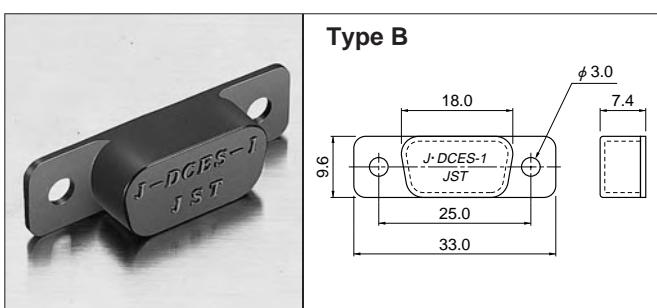
- The resulting total dimension from the connector flange to the top of the hexagonal lock screw block must be 6.2mm after assembly.
- The D subminiature connector can be installed on the Panel by simply tightening the hexagonal lock screw block together with grounding adapter, which has an identical thread to that of the F, G, and H types.

DUST COVER (for receptacles)



Type	Circuits		Model No.	Q'ty / box	
	J series	JK series			
A	9	15	J-DCES	1,000	
B			J-DCES-1		
Material					
PA, UL94V-0, black					

RoHS compliance



EXTRACTION TOOL



With this tool, contacts (connected to wires by crimping) can be easily removed if they are improperly inserted into plug and receptacle housings.

Applicable Connector	Model No.
J series	DEJ-0.3
JK series	Plug
	Receptacle
	KEJ-0.7
	KEJ-0.4



MD CONNECTOR

Miniature circular connectors

The extremely compact MD miniature circular connector has an outside diameter roughly half that of conventional circular DIN connectors.

The connector's contact exclusively designed by JST dramatically reduces assembly time while improving contact reliability. The MD connector's shielding is superb. All you need to do is crimp the connector ground clip over the cable's braided shielding wire. Simple and reliable, JST's MD connector is well suited for the production of high-density office automation equipments as well as audio and video products.

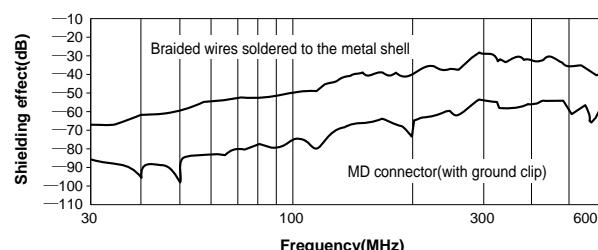
- Crimp contact with integral construction for improved reliability
- Easy assembly without using special tools
- Simple braid-to-connector assembly and effective EMI protection

Standards

■ Recognized E60389

■ Certified LR20812

Shielding effect



*The shielding effect differs depending on the wire specifications.

* RoHS compliant products are published.

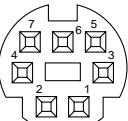
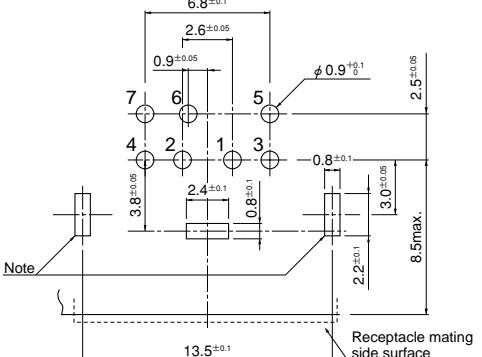
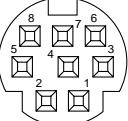
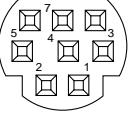
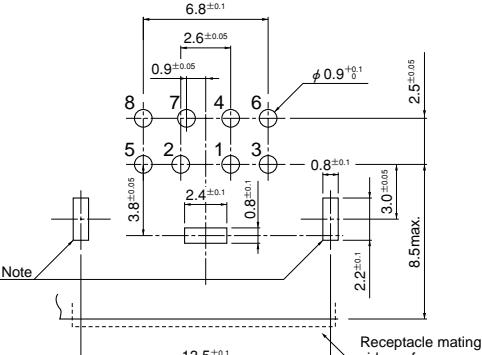
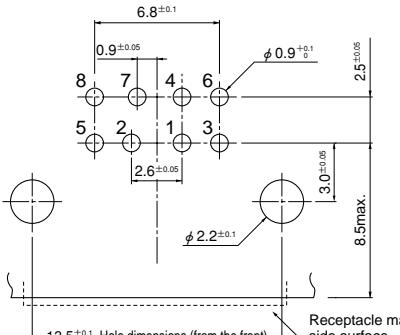
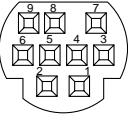
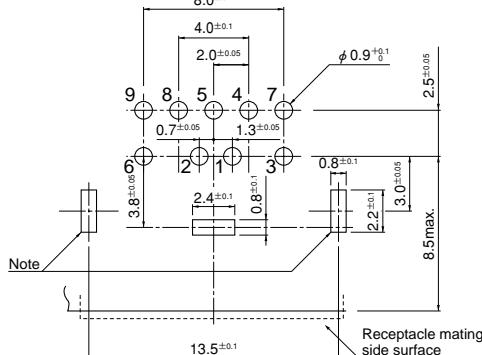
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

PC board layout

Layout Circuits	Mating section layout	PC board layout (viewed from component side)	
		Standard and Type B	Front shielding type
4		<p>Note: Receptacle mating side surface</p>	<p>Note: Receptacle mating side surface</p>
5		<p>Note: Receptacle mating side surface</p>	<p>Note: Receptacle mating side surface</p>
6		<p>Note: Receptacle mating side surface</p>	<p>Note: Receptacle mating side surface</p>

MD CONNECTOR

Layout Circuits	Mating section layout	PC board layout (viewed from component side)	
		Standard and Type B	Front shielding type
7		 <p>Note: Receptacle mating side surface</p>	
8	 (Type B) 	 <p>Note: Receptacle mating side surface</p>	 <p>13.5±0.1 Hole dimensions (from the front) Receptacle mating side surface</p>
9		 <p>Note: Receptacle mating side surface</p>	

Note: 1. The two holes are necessary when installing a shielding cover.

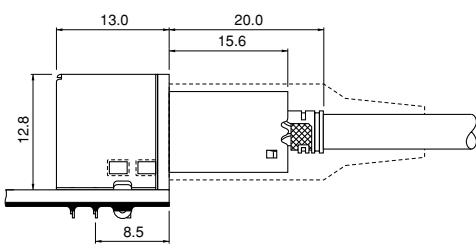
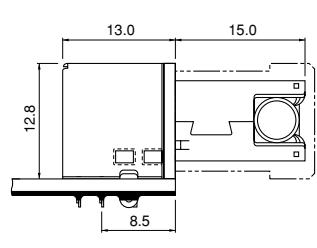
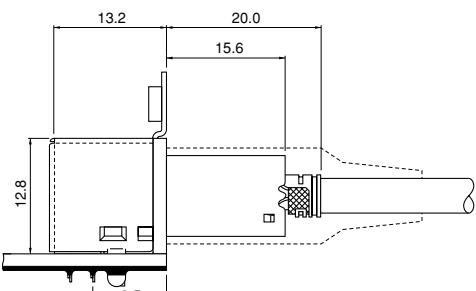
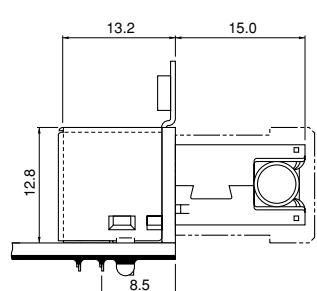
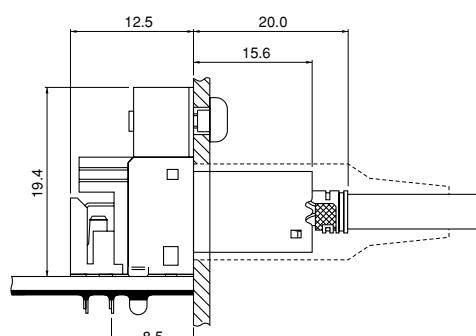
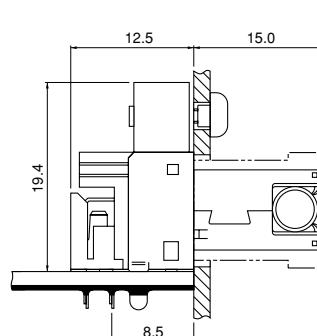
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Tolerances are non-cumulative. $\pm 0.5\text{mm}$ for all centers.
3. Hole dimensions differ depending on the kind of PC board and piercing method. The dimensions above should serve as a guideline. For details, contact JST.

4. The layout drawing is viewed from the receptacle mounting side.

5. When using a receptacle with shielding cover or with flange shielding cover, the pattern should be designed to connect the shielding cover and the shielding tube, if necessary. (No need for the front shielding cover.)

Assembly layout

	Plug Receptacle	Straight type	Side entry type
Standard type Type B With shielding cover			
Standard type Type B With flange shielding cover			
Front shielding type			

MD CONNECTOR

Plug

Straight type plug

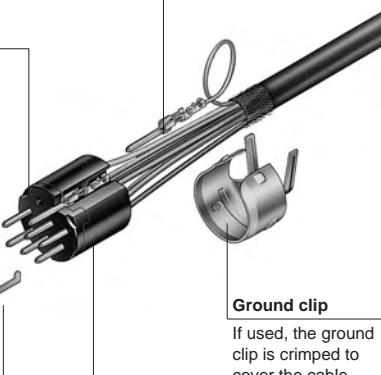
Contact

JST's exclusive one-piece contact is formed and cold worked by stamping presses to ensure the highest reliability.

Housing B

Metal Shell

Three shell types (standard, A and B) are available.



Solder tail

Housing A

Housing A is designed to keep the contacts firmly in place while protecting them from damage.

Assembled product



Molded product

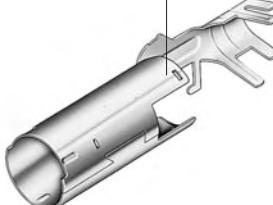


Side entry type plug

Contact

Metal Shell

One piece including ground clip



Housing A

Housing B

Assembled product



Molded product



Specifications

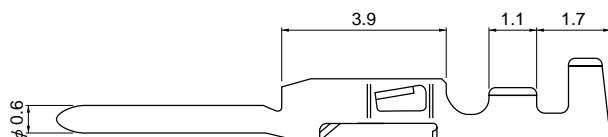
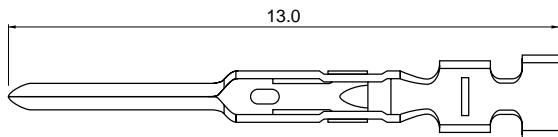
Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment) Phosphor bronze, tin-plated (reflow treatment) Phosphor bronze, nickel-undercoated silver-plated
Housing A, B	PBT, UL94V-0, black
Metal shell	Steel, nickel-plated
Ground clip	Brass, nickel-plated

Characteristics

Current rating	1.0A, AC, DC (AWG#26)
Voltage rating	50V, AC, DC
Temperature range	-25°C ~ +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value: 100mΩ max. After environmental testing: 300mΩ max.
Insulation resistance	50MΩ min.
Withstanding voltage	500V AC/minute
Applicable wire	AWG #30 ~ #24

Plug contact



Model No.			Applicable wire			Q'ty / reel
Gold-plated (flash)	Silver-plated	Tin-plated	mm ²	AWG #	Insulation O.D. (mm)	
MD-SP2240	MD-SP2270	MD-SP2290	0.06 ~ 0.13	30 ~ 26	0.7 ~ 1.1	10,000
MD-SP1240	MD-SP1270	MD-SP1290	0.13 ~ 0.2	26 ~ 24	1.0 ~ 1.2	10,000

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Model number identification

<ul style="list-style-type: none"> • Series name • Product from: S ... Chain, B ... Loose piece • Type of contact: P ... Plug contact • Applicable wire: 1 ... AWG #26 ~ #24 2 ... AWG #30 ~ #26 • Material: 2 ... Phosphor bronze • Finish <ul style="list-style-type: none"> 40 ... Gold-plated (flash) 44 ... 0.76 micron gold-plated 45 ... 1.3 micron gold-plated 70 ... Silver-plated 90 ... Tin-plated (reflow treatment) 	MD - S P 2 2 40
--	--

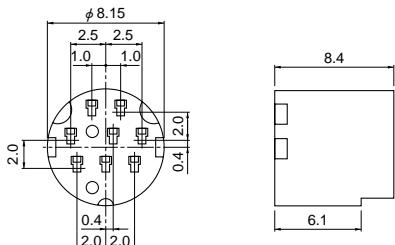
*Contact JST for details.

MD CONNECTOR

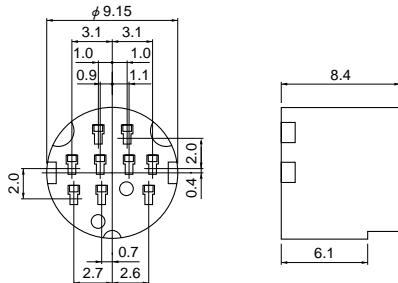
Housing

Housing A

(With 4 to 8 circuits)

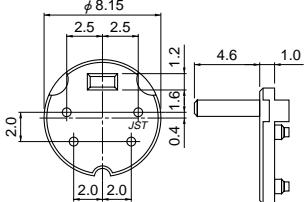


(With 9 circuits)

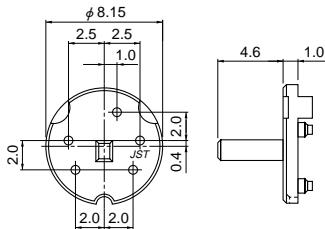


Housing B

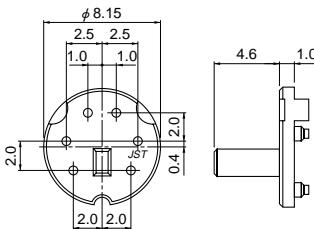
(With 4 circuits)



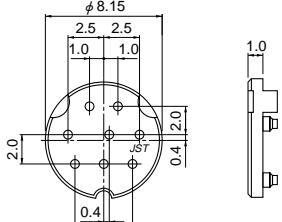
(With 5 circuits)



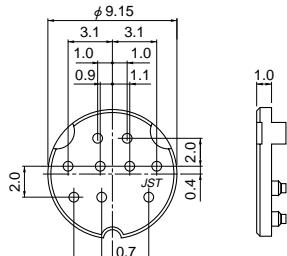
(With 6 circuits)



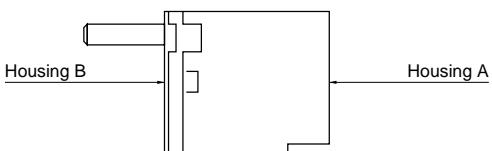
(With 8 circuits)



(With 9 circuits)



Combined housings A and B



Housing A is used with housing B. Housing B must have the same number of orifices as there will be contacts in the connector. However, housing A can have a greater number of cavities (but never less). Thus in applications in which a user may require MD connectors with different pin counts, only one kind of "A" housing needs to be inventoried - the one with the highest pin count. For more details regarding such combinations, contact JST.

Circuits	Model No.		Q'ty / box
	Housing A	Housing B	
4	MD-PI 4A	MD-PI 4B	1,000
5	—	MD-PI 5B	1,000
6	MD-PI 6A	MD-PI 6B	1,000
8	MD-PI 8A	MD-PI 8B	1,000
9	MD-PI 9A	MD-PI 9B	1,000

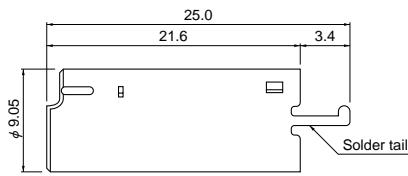
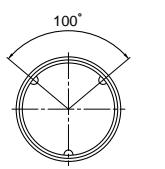
RoHS compliance

Note: MD-PI5B is not CSA certified.

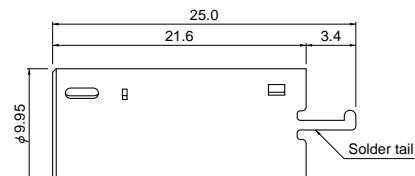
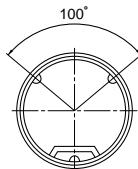
Metal shell (straight type)

Standard type

(With 4 to 8 circuits)

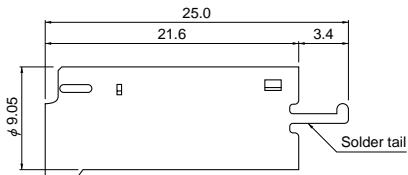
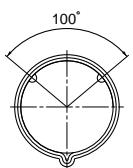


(With 9 circuits)



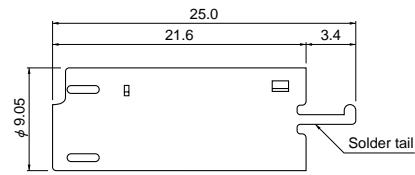
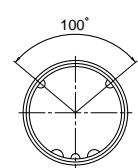
Type A

(features polarizing keys, usable with S-VHS connector)



Type B

(features 4 polarizing keys, usable with having 8 circuits)

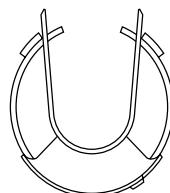
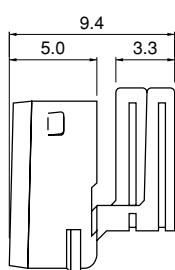


Circuits	Model No.						Q'ty / box	
	Standard		Type A (features three polarizing keys)		Type B (features 4 polarizing keys...8 circuits only)			
	With solder tail	Without solder tail	With solder tail	Without solder tail	With solder tail	Without solder tail		
4 ~ 8	MD-PS8T	*MD-PS8T1	*MD-PS8AT	*MD-PS8AT1	*MD-PS8BT	*MD-PS8BT1	750	
9	MD-PS9T	*MD-PS9T1	—	—	—	—	750	

RoHS compliance

*Marked products are not CSA certified.

Ground clip



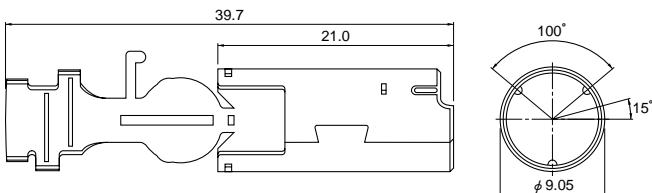
Circuits	Model No.	Applicable cable O.D.(mm)	Q'ty / reel
4 ~ 8	MD-PCC8T-S1	2.7 ~ 3.8	1,000
	MD-PCC8T-S2	4.3 ~ 5.5	1,000
9	MD-PCC9T-S3	3.6 ~ 4.8	1,000

RoHS compliance

MD CONNECTOR

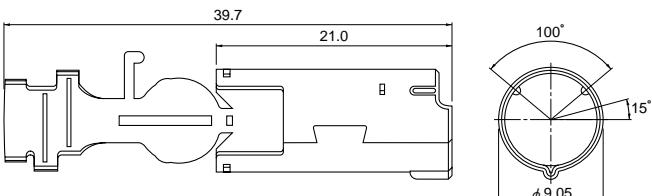
Metal shell (side entry type)

Standard type



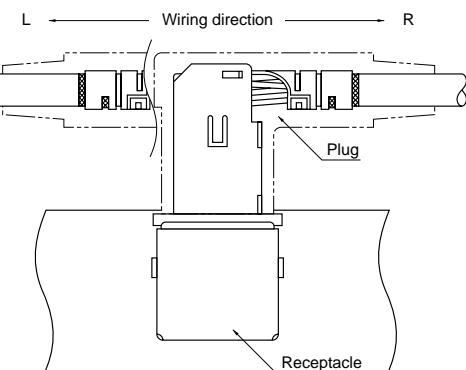
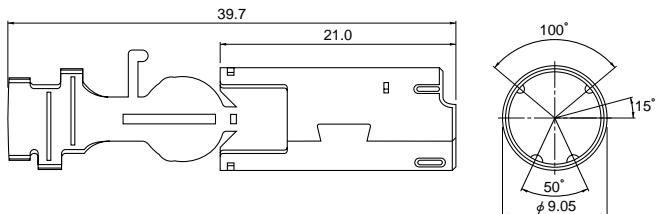
Type A

(features polarizing keys, usable with S-VHS connector)



Type B

(features 4 polarizing keys, usable with housing having 8 circuits)



Viewing from the receptacle mounting side

Type	Circuits	Model number		Q'ty / box
		R	L	
Standard	4 ~ 8	MD-PS8SR	MD-PS8SL	500
A	4 ~ 8	MD-PS8ASR	—	500
B	8	MD-PS8BSR	—	500

RoHS compliance

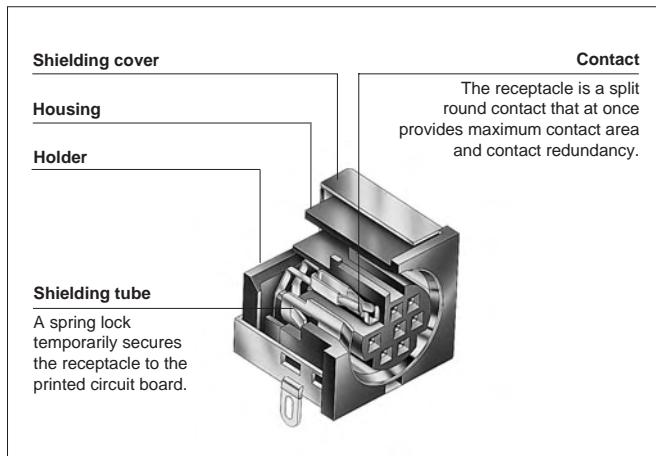
Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
MD-PCC8T-S1	AP-K2N	MKS-L	MK/MD-PCC8T-S1	APLMK MD-PCC8T-S1
		*MKS-SC	—	—
MD-PCC8T-S2	AP-K2N	MKS-L	MK/MD-PCC8T-S2	APLMK MD-PCC8T-S2
		*MKS-SC	—	—
MD-PCC8T-S3	AP-K2N	MKS-L	MK/MD-PCC8T-S3	APLMK MD-PCC8T-S3
		*MKS-SC	—	—
MD-PS8SL	AP-K2N	MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	—	—
MD-PS8ASR	AP-K2N	MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
MD-PS8BSR	AP-K2N	MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	—	—
MD-PS8SR	AP-K2N	MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	—	—
MD-SP12**	AP-K2N	MKS-L	MK/MD-SP12	APLMK MD-SP12
		*MKS-SC	SC/MD-SP12	APLSC MD-SP12
MD-SP22**	AP-K2N	MKS-L	MK/MD-SP22	APLMK MD-SP22
		*MKS-SC	SC/MD-SP22	APLSC MD-SP22

Note: *Strip-crimp applicator

Receptacle (through-hole type)



- Split round contact provides maximum contact area and contact redundancy**

The receptacle contact is split to insure redundant connection and is cylindrically shaped to provide maximum contact mating area. The result is a highly reliable connection to the mating pin. This superb contact performance is maintained even after many mating and unmating cycles.

- Flange construction**

The flange construction allows the receptacle to be secured on the equipment chassis with screws, ensuring more reliable electrical connection.



Standard type with flange shielding cover

(Standard type/Type B)

- Compact, high-density design**

This receptacle has a low profile with a mounting height of just 12.8mm and width of 14.0mm. It takes up little space on the printed circuit board, allowing high-density product design.

- Spring locks make it easy to temporarily secure receptacles to printed circuit boards for soldering**

The shielding tubes are equipped with spring locks which can be used to temporarily secure the receptacles to printed circuit boards. This prevents the receptacles from moving and ensures reliable soldering.



Standard type without shielding cover (left)
Standard type with shielding cover (center)
Type B (applicable to Type B plug) (right)

(Front shielding type)

- Front shielding construction**

A metal shielding cover integrating the connection part which connects to the plug's shell is used. Because there is no gap between the receptacle and the plug, this construction prevents the entry of space conductive noise.

- Effective shielding**

With the front shielding construction and the flange construction, the shielding effect is improved by about 15 dB over the conventional models.



Front shielding type receptacle

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Phosphor bronze, nickel-undercoated silver-plated Phosphor bronze, tin-plated (reflow treatment)
Housing / Holder	PBT, UL94V-0

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	50V, AC, DC
Temperature range	-25°C ~ +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value: 100mΩ max. After environmental testing: 300mΩ max.
Withstanding voltage	500V AC/minute
Applicable PC board thickness	1.6mm

[Standard type/Type B]

Shielding tube	Brass, nickel-plated (*note)
Shielding cover	Brass, nickel-undercoated, tin/copper alloy-plated

[Front shielding Type]

Shielding cover	Brass, nickel-plated (*note)
-----------------	------------------------------

Note: Use soldering flux that is suitable for nickel-plating. Tin plated version is also available.

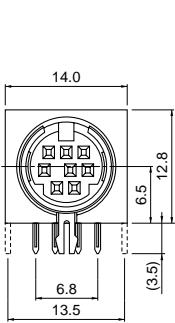
Model number identification

MD - S	8	0	00	B - 10
• Series name				
• Product name: S ... Receptacle				
• Circuits: 4, 5, 6, 7, 8, 9				
• Shielding cover: 0 ... Without shielding cover 1 ... With shielding cover 3 ... With front shielding cover				
• Flange: 00 ... Without flange 30 ... With flange 50 ... With top flange with nuts				
• Type B indication B ... Type B (Applicable to Type B plug) Blank...Standard type (Applicable to Standard and Type A plugs) ...Front shielding type (Applicable to Standard and Type plugs)				
• Finish 10 ... Gold-plated (flash) 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated 70 ... Silver-plated 90 ... Tin-plated (reflow treatment)				

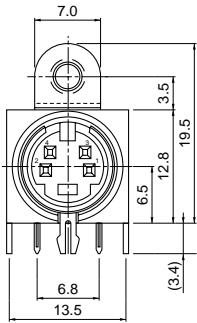
Note: Contact JST for special plating requirements.

MD CONNECTOR

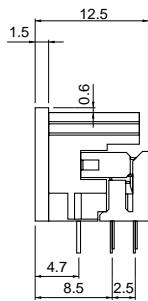
Standard type / Type B



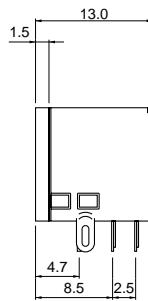
Without shielding cover
With shielding cover



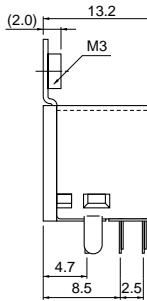
With flange
shielding cover



Without
shielding cover



With
shielding cover



With flange
shielding cover

• Standard type: Without shielding cover

Cir-cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	MD-S4000-10	MD-S4000-70	MD-S4000-90	200
5	MD-S5000-10	MD-S5000-70	MD-S5000-90	200
6	MD-S6000-10	MD-S6000-70	MD-S6000-90	200
7	MD-S7000-10	MD-S7000-70	MD-S7000-90	200
8	MD-S8000-10	MD-S8000-70	MD-S8000-90	200
9	MD-S9000-10	MD-S9000-70	MD-S9000-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Gold-plated products display (LF)(SN) on a label.

Silver-plated/Tin-plated products display (LF) on a label.

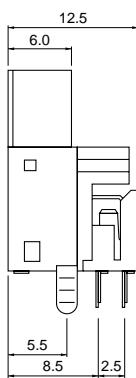
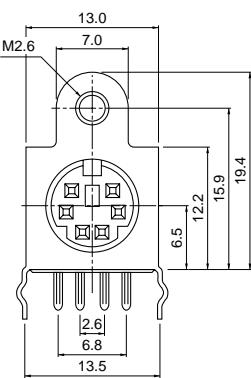
• Standard type: With shielding cover

Cir-cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	MD-S4100-10	MD-S4100-70	MD-S4100-90	200
5	MD-S5100-10	MD-S5100-70	MD-S5100-90	200
6	MD-S6100-10	MD-S6100-70	MD-S6100-90	200
7	MD-S7100-10	MD-S7100-70	MD-S7100-90	200
8	MD-S8100-10	MD-S8100-70	MD-S8100-90	200
9	MD-S9100-10	MD-S9100-70	MD-S9100-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Silver-plated/Tin-plated products display (LF) on a label.

Front shielding type



• Standard type: With flange shielding cover

Cir-cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	MD-S8000B-10	MD-S8000B-70	MD-S8000B-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Gold-plated products display (LF)(SN) on a label.

Silver-plated/Tin-plated products display (LF) on a label.

• Type B: With shielding cover

Cir-cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	MD-S8100B-10	MD-S8100B-70	MD-S8100B-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Gold-plated products display (LF)(SN) on a label.

Silver-plated/Tin-plated products display (LF) on a label.

• Type B: With flange shielding cover

Cir-cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	MD-S8130B-10	MD-S8130B-70	MD-S8130B-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Gold-plated products display (LF)(SN) on a label.

Silver-plated/Tin-plated products display (LF) on a label.

• Front shielding type

Cir-cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	MD-S4350-10	MD-S4350-70	MD-S4350-90	200
5	MD-S5350-10	MD-S5350-70	MD-S5350-90	200
6	MD-S6350-10	MD-S6350-70	MD-S6350-90	200
8	MD-S8350-10	MD-S8350-70	MD-S8350-90	200

RoHS compliance Gold-plated products display (LF)(SN) A on a label.

Gold-plated products display (LF)(SN) A on a label.

Silver-plated/Tin-plated products display (LF) A on a label.

(A shows space.)



MD CONNECTOR(SMT)

Miniature circular connectors

- Front shielding construction
- Flange construction

Specifications

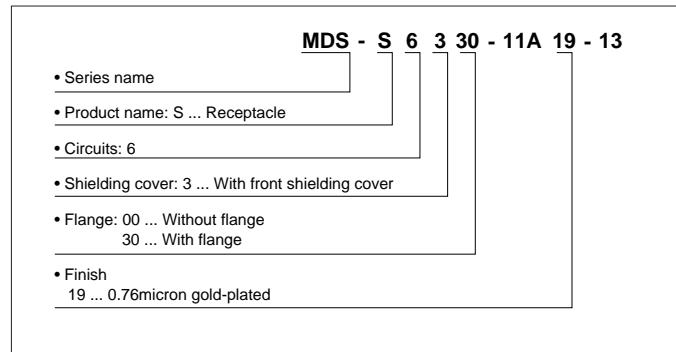
Materials

Part name	Material and Finish
Contact	Copper alloy, nickel-undercoated, Mating part; selective gold-plated Solder tail; tin-plated (reflow treatment)
Housing	PPS, UL94V-0
Front shell	With flange: Steel, nickel-plated Without flange: Brass, nickel-plated
Metal fixture	Copper alloy, copper-undercoated, nickel-plated

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	125V, AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value: 20mΩ max. After environmental testing: 30mΩ max.
Insulation resistance	500MΩ min.
Withstanding voltage	500V AC/minute

Model number identification

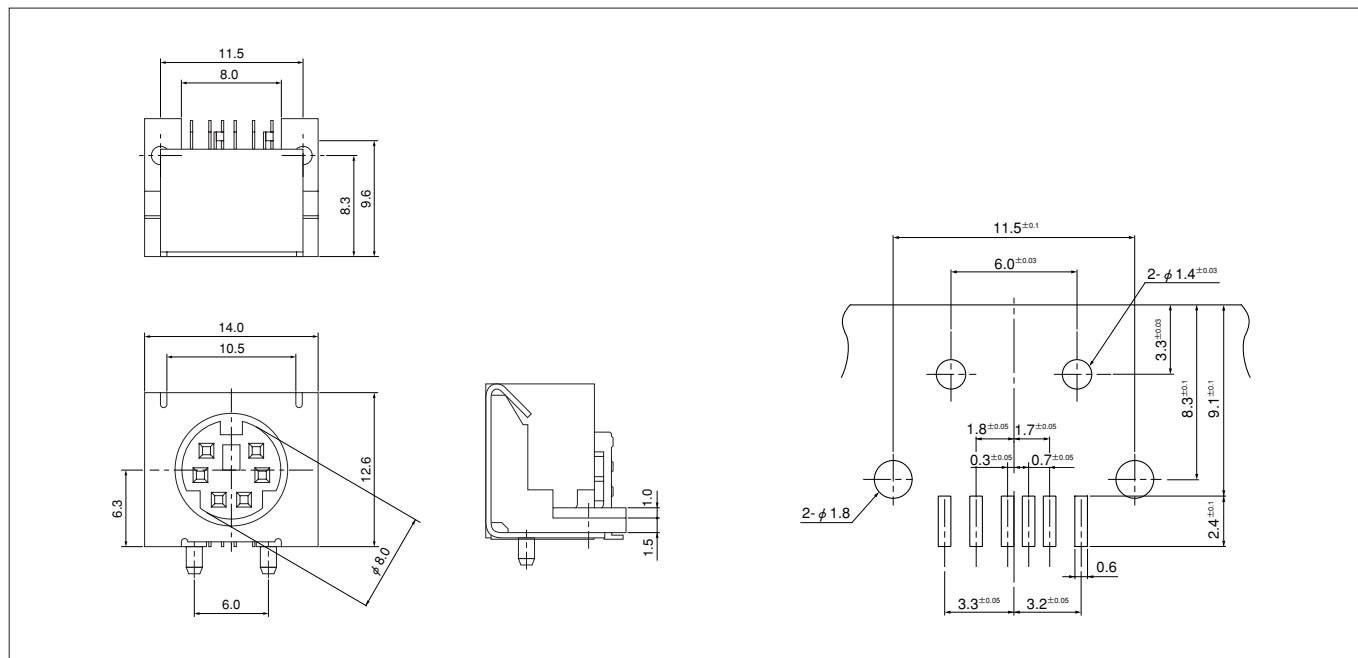


* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

PC board layout (viewed from component side)



Circuits	Flange	Model No.	Q'ty / box
6	without flange	MDS-S6300-11A19-14	320

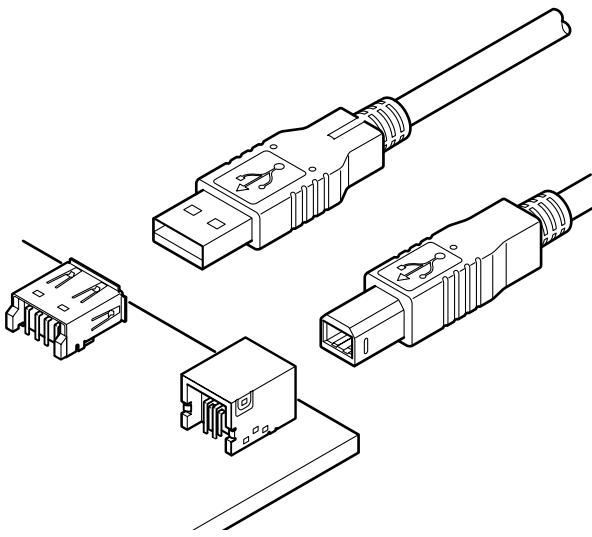
Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline.
Contact JST for details.

RoHS compliance This product displays (LF)(SN) on a label.



UB CONNECTOR

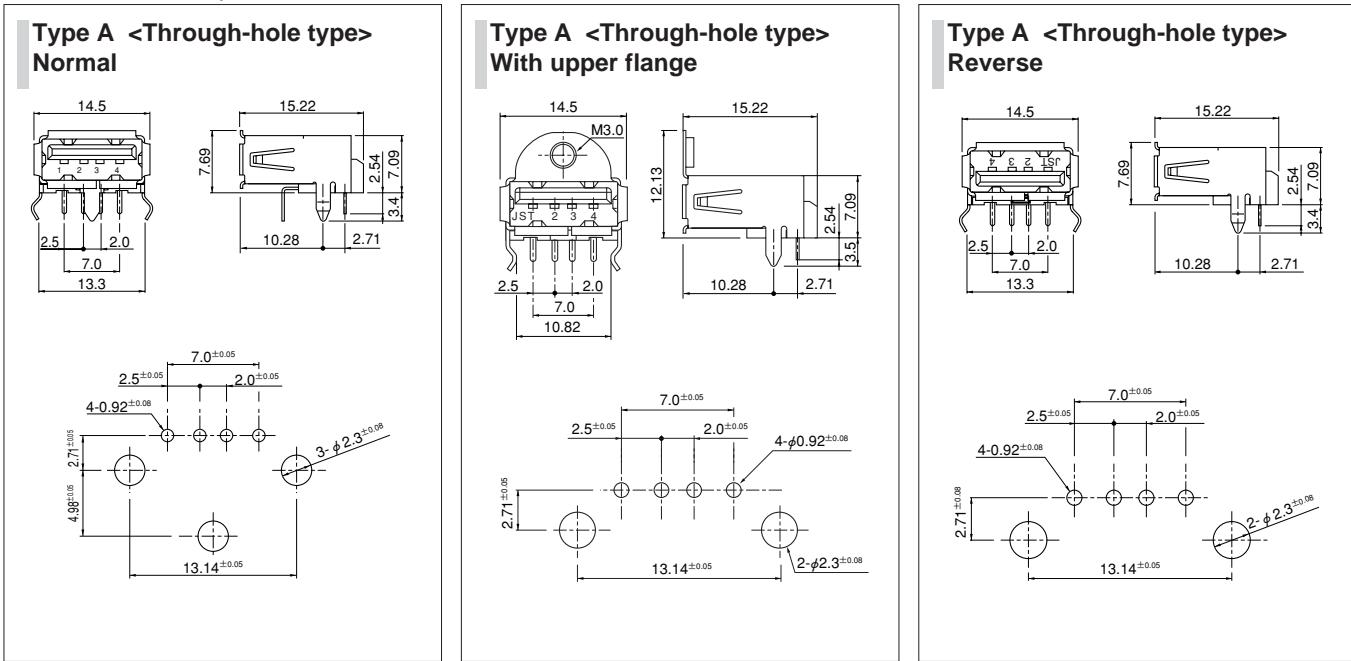
USB (Universal Serial Bus) Conforming Connector



- **Conforms to USB (Universal Serial Bus) standards**
- **Secure EMI shielding effect**
- **Distortion preventive device**
- **SMT configuration**

Receptacle

USB2.0 certified product



Model No.	Material and Finish	Qty/box
UBA-4R-D14T-4D	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, nickel-undercoated, tin-plated Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)	-
UBA-4R-D14C2-4D	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, nickel-undercoated, tin-plated	-
UBA-R4R-D14-4D	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, nickel-undercoated, tin-plated	250

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish	Qty/box
UBA-4R-D14T-4D	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, nickel-undercoated, tin-plated Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)	-
UBA-4R-D14C2-4D	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, nickel-undercoated, tin-plated	-

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish	Qty/box
UBA-R4R-D14-4D	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, nickel-undercoated, tin-plated	250

RoHS compliance This product displays (LF)(SN) on a label.

Specifications

- Current rating: 1.0A AC, DC/line
- Voltage rating: 30V AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/10m Ω max.
(variation from initial value)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 750V AC/minute
- Applicable wire (Plug): AWG #20 to #28
Insulation O.D./1.58 to 0.79mm
- Applicable cable O.D. (Plug): 5.3 to 3.4mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

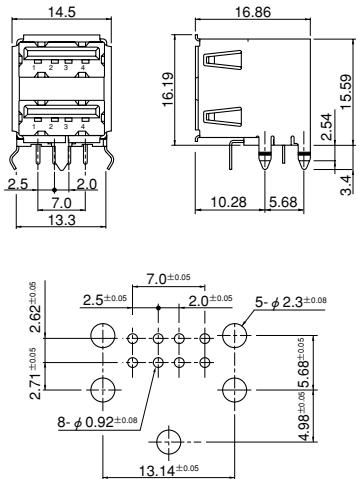
Standards

Recognized E60389

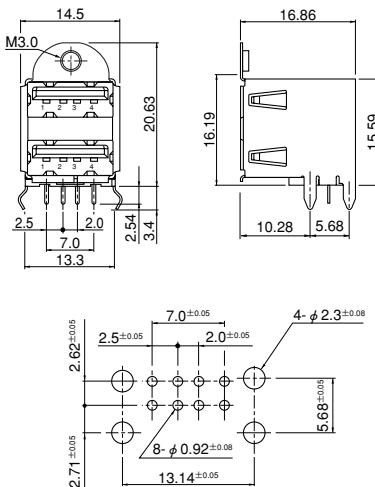
Certified LR20812

Receptacle

Type A <Through-hole type> Double-stack



Type A <Through-hole type> Double-stack with upper flange



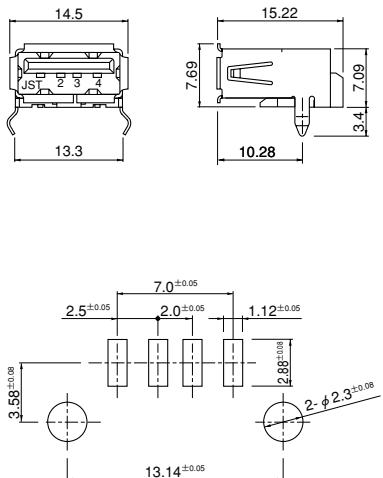
Model No.	Material and Finish	Qty/box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
Housing	Thermoplastic resin, UL94V-0	210
Locator		
Shell	Copper alloy, nickel-undercoated, tin-plated	
Solder tab	Copper alloy, copper-undercoated, tin-plated (reflow treatment)	

RoHS compliance This product displays (LF)(SN) on a label.

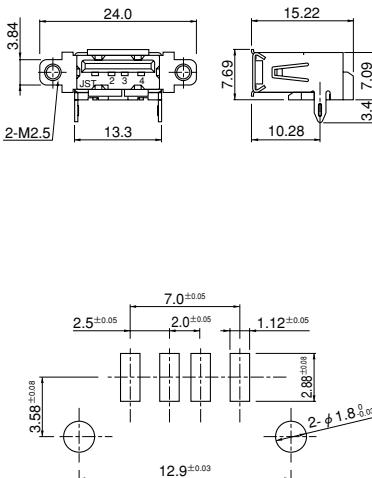
Model No.	Material and Finish	Qty/box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
Housing	Thermoplastic resin, UL94V-0	-
Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

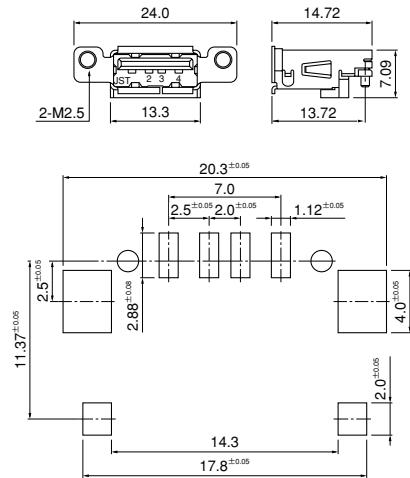
Type A <SMT type> Without flange



Type A <SMT type> With side flange



Type A <SMT type, off-set 3mm> With side flange



Model No.	Material and Finish	Qty/box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
Housing	Thermoplastic resin, UL94V-0	250
Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish	Qty/box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
Housing	Thermoplastic resin, UL94V-0	192
Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish	Qty/box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
Housing	Thermoplastic resin, UL94V-0	378
Shell	Copper alloy, nickel-undercoated, tin-plated	

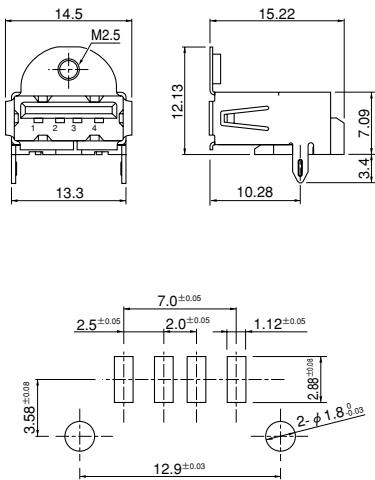
RoHS compliance This product displays (LF)(SN) on a label.

Note: The dimensions above should serve as a guideline. Contact JST for details.

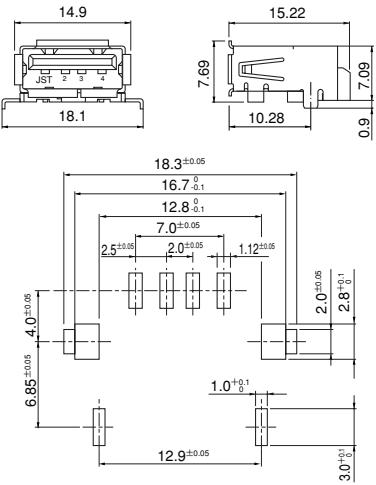
UB CONNECTOR

Receptacle

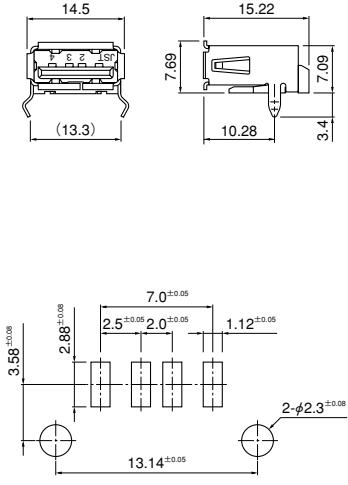
Type A <SMT type> With upper flange



Type A <SMT type> FULL SMT



Type A <SMT type> Reverse



Model No.	Material and Finish		Qty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated		
UBA-4R-S14C-4S	Housing	Thermoplastic resin, UL94V-0	216
Shell	Copper alloy, nickel-undercoated, tin-plated		

Model No.	Material and Finish		Q'ty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated		
UBA-4R-S14H-4S	Housing	Thermoplastic resin, UL94V-0	-
Shell	Copper alloy, nickel-undercoated, tin-plated		

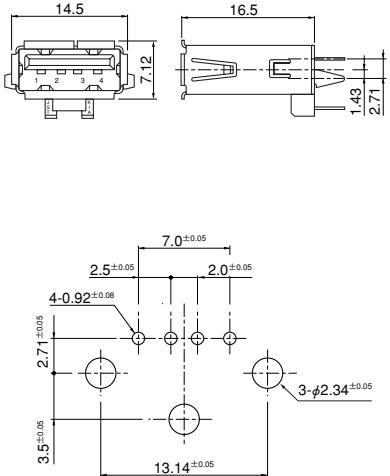
Model No.	Material and Finish		Q'ty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated		
UBA-R4R-S14-4S	Housing	Thermoplastic resin, UL94V-0	250
Shell	Copper alloy, nickel-undercoated, tin-plated		

RoHS compliance This product displays (LF)(SN) on a label.

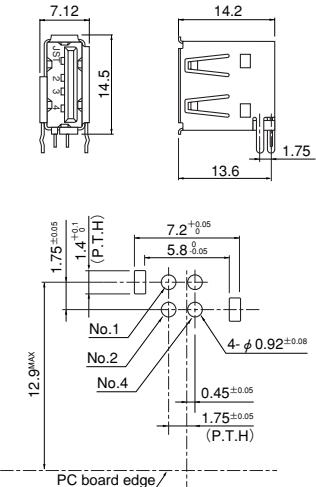
Note: The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

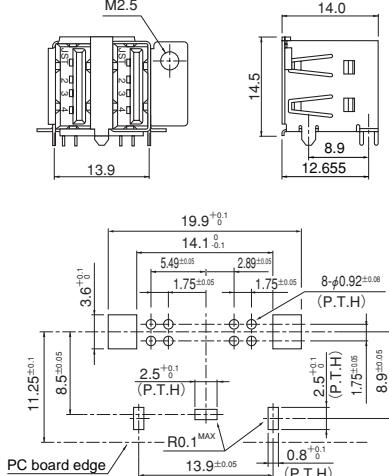
Type A <Through-hole type> Straight, normal



Type A <Through-hole type> Vertical, normal



Type A <SMT/Through-hole type> Vertical, dual-row



Model No.	Material and Finish	Qty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
UBAS-4R-D14-4D	Housing Thermoplastic resin, UL94V-0	250
Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

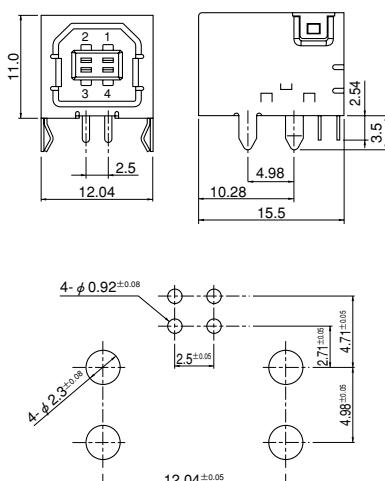
Model No.	Material and Finish	Qty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
UBAL-4R-D14-4S	Housing Thermoplastic resin, UL94V-0	350
Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

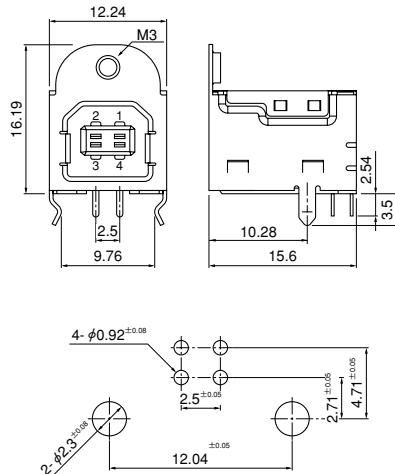
Model No.	Material and Finish	Qty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
UBAL-4RS-D14K-4S	Housing Thermoplastic resin , UL94V-0	105
Shell A	Copper alloy, nickel-undercoated, tin-plated	
Shell B	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

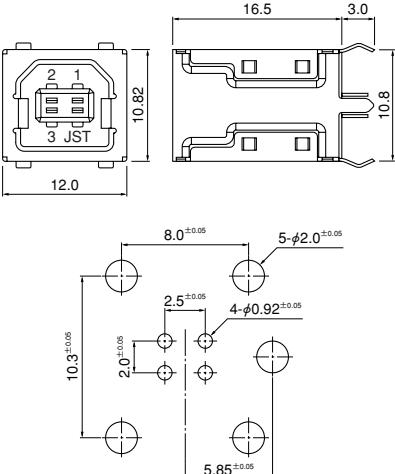
Type B <Through-hole type> Normal



Type B <Through-hole type> With upper flange



Type B <Through-hole type> Straight



Model No.	Material and Finish	Qty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
UBB-4R-D14T-4D	Housing Thermoplastic resin, UL94V-0	270
Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

Note: The dimensions above should serve as a guideline. Contact JST for details.

Model No.	Material and Finish	Qty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
UBB-4R-D14C-4D	Housing Thermoplastic resin, UL94V-0	270
Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish	Qty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
UBBS-4R-D14-4D	Housing Thermoplastic resin , UL94V-0	600
Shell	Copper alloy, nickel-undercoated, tin-plated	

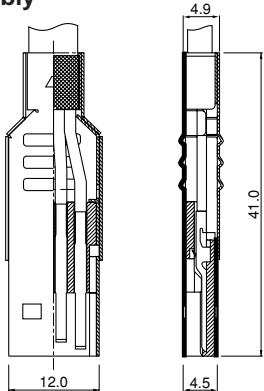
RoHS compliance This product displays (LF)(SN) on a label.

UB CONNECTOR

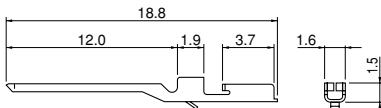
Plug type A

USB2.0 certified product

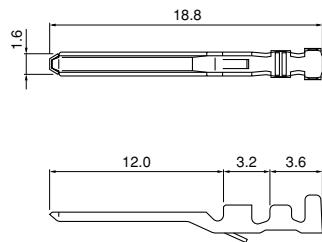
Assembly



Contact (Solder pot type)



Contact (Crimp type)



Model No.

UBA-P*14

Model No.

UBB-DP214

Material and Finish

Copper alloy,
nickel-undercoated,
selective gold-plated

Q'ty / reel

12,000

Note: Not CSA certified.

RoHS compliance This product displays (LF)(SN) on a label.

Model No.

UBB-SP1114
UBB-SP2114

Applicable wire

AWG#
24~20

Insulation O.D. (mm)

1.03~1.58

Q'ty / reel

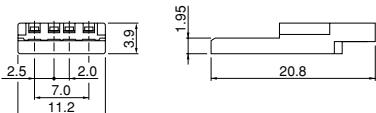
10,000
12,000

Material and Finish

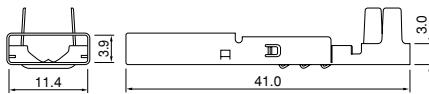
Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(SN) on a label.

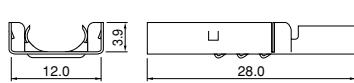
Housing



Shielding cover A



Shielding cover B



Model No.

Material

Q'ty / bag

UBA-PH4-1

Glass-filled PBT, UL94V-0

500

Model No.

Material and Finish

Q'ty / box

UBA-SC4A

Mild steel,
nickel-undercoated,
tin-plated

400

Model No.

Material and Finish

Q'ty / box

UBA-SC4B

Mild steel,
nickel-undercoated,
tin-plated

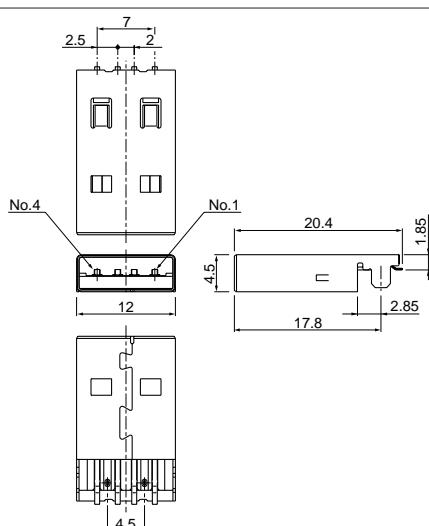
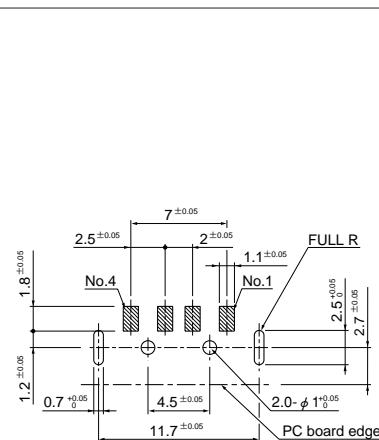
1,000

RoHS compliance

This product displays (LF) on a label.

Note: USB2.0 certification for UB connector harness is needed separately.

Plug type A SMT type



Model No.	Material and Finish	Q'ty / box
Contact	Copper alloy, nickel-undercoated, selective gold-plated	
Housing	Thermoplastic resin , UL94V-0	5,580
Shell	Copper alloy, nickel-undercoated, palladium-plated	

RoHS compliance This product displays (LF)(SN) on a label.

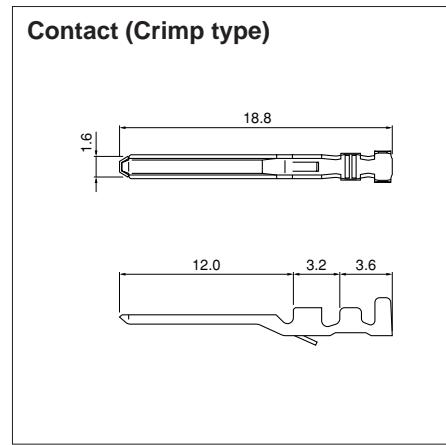
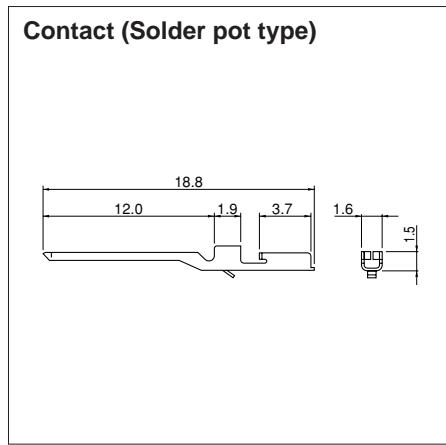
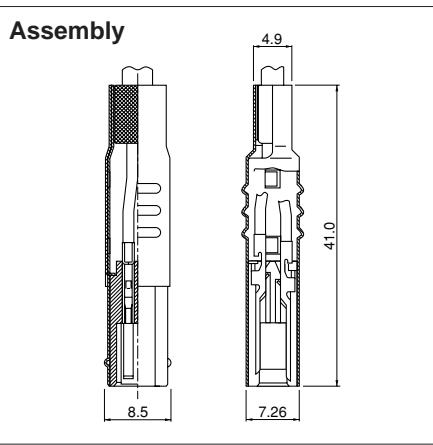
Note: 1. Not UL/CSA approved.

2. The dimensions left should serve as a guideline.

Contact JST for details.

Plug type B

USB2.0 certified product



Model No.
UBB-P*14

Model No.	Material and Finish	Q'ty / reel
UBB-DP214	Copper alloy, nickel-undercoated, selective gold-plated	12,000

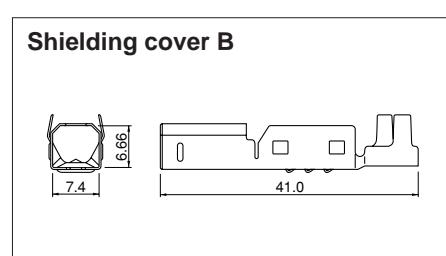
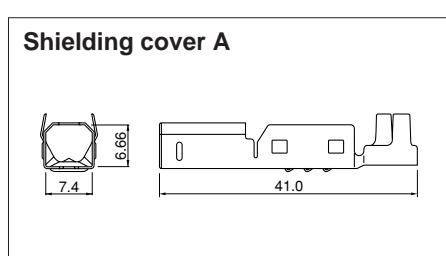
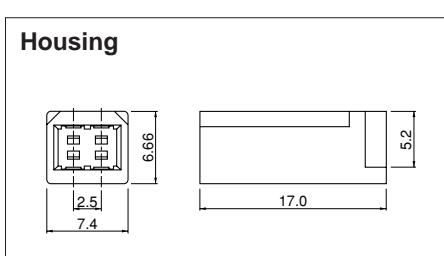
Model No.	Applicable wire AWG#	Insulation O.D. (mm)	Q'ty / reel
UBB-SP114	24~20	1.03~1.58	10,000
UBB-SP214	28~24	0.79~1.17	12,000

Note: Not CSA certified.

RoHS compliance This product displays (LF)(SN) on a label.

Material and Finish
Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(SN) on a label.



Model No.	Material	Q'ty / bag
UBB-PH4-1	Glass-filled PBT, UL94V-0	500

Model No.	Material and Finish	Q'ty / box
UBB-SC4A	Mild steel, nickel-undercoated, tin-plated	500

Model No.	Material and Finish	Q'ty / box
UBB-SC4B	Mild steel, nickel-undercoated, tin-plated	1,000

RoHS compliance

Note: Contact JST for USB2.0 standards.

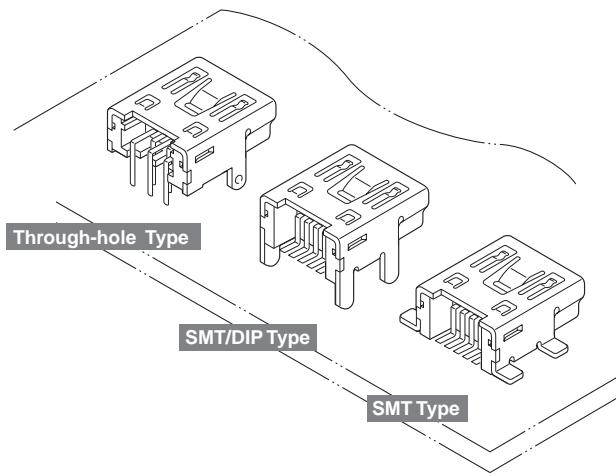
RoHS compliance This product displays (LF) on a label.

RoHS compliance This product displays (LF) on a label.



UB CONNECTOR mini-B Type

USB (Universal Serial Bus) Conforming Connector



The USB 2.0 certified receptacle is quite suitable for the interface of the small and miniaturized PC-peripheral products as Digital Cameras and MP3 Players.

- Space saving design
- Shielding and higher reliability of connection
- Excellent insertion and withdrawal forces
- Variations

Specifications

- Current rating: 1.0A AC, DC
 - Voltage rating: 30V AC, DC
 - Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 100V AC/minute
 - Applicable wire: Mating with USB 2.0 certified mini-B plug
 - Applicable PC board thickness: Through-hole/1.0mm
SMT, SMT-through-hole/
1.0 to 1.2mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

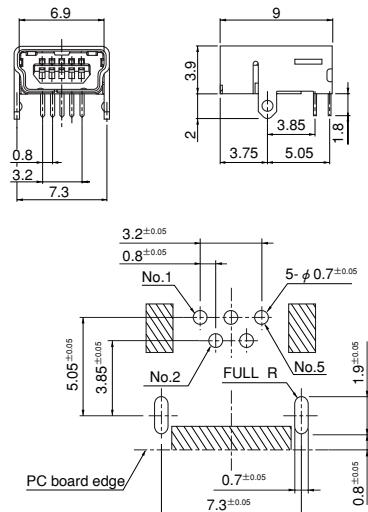
Recognized E60389

UB CONNECTOR mini-B Type

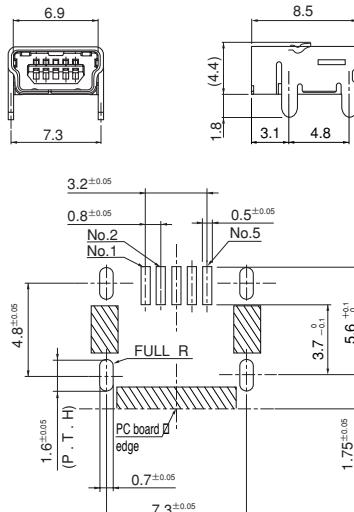
Receptacle

USB 2.0 certified product

Through-hole/Through-hole



Through-hole/SMT



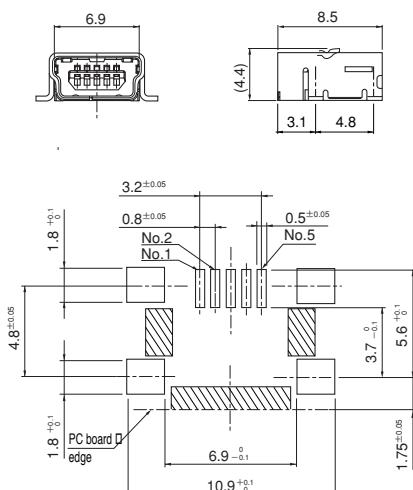
Model No.	Material and Finish		Q'ty/box
UB-M5BR-DM14-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	400
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish		Q'ty/box
UB-M5BR-S14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	840
	Housing	Heat resisting resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

SMT/SMT



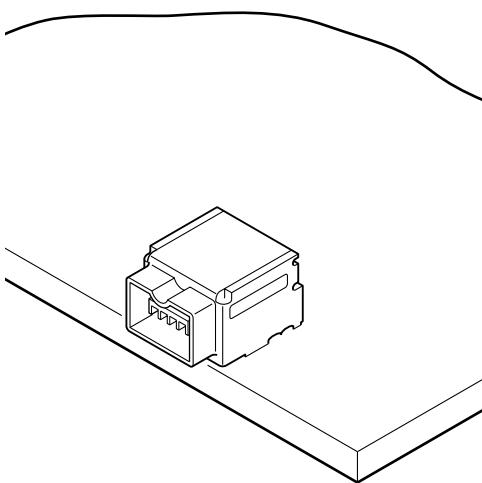
Model No.	Material and Finish		Q'ty/box
UB-M5BR-G14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	840
	Housing	Heat resisting resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.



RV CONNECTOR

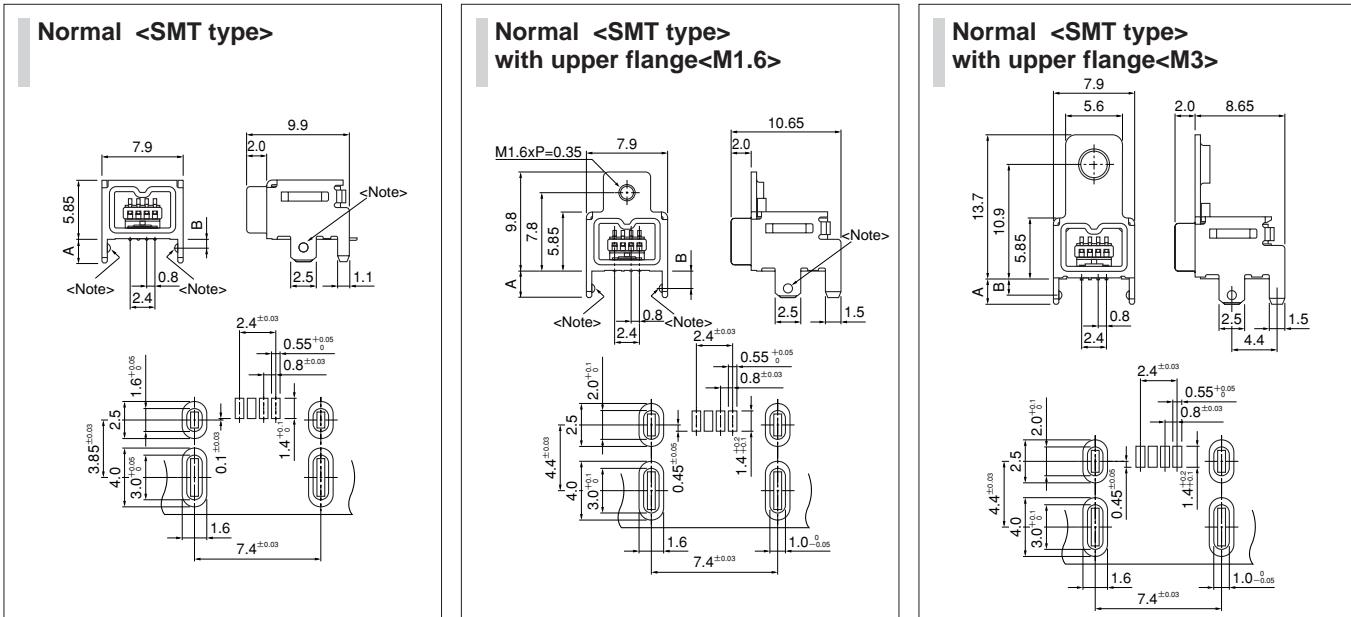
High-speed serial interface connectors



Conforming to the IEEE 1394 standards (4P), the RV connector is a high-speed serial interface connector designed for use in PCs and consumer electronic equipment.

- A variety of receptacles are available
- Compact

Receptacle



Model No.	Material and Finish
Supplied on embossed tape	Housing PPS, UL94V-0
RV-SS4G-N-BM-TB	Contact Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
Supplied in tray	Shell cover Copper alloy, copper-undercoated, nickel-plated
RV-SS4G-N-B()	Shell Mild steel, nickel-undercoated, tin-plated

RoHS compliance This product displays (LF)(SN) on a label.
Note: Embossed-taping products have no dimple.

Model No.	Material and Finish
Supplied on embossed tape	Housing PPS, UL94V-0
RV-SS4G-F16N-C-TB	Contact Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
Supplied in tray	Shell cover Copper alloy, copper-undercoated, nickel-plated
RV-SS4G-F16N-C()	Shell Mild steel,copper-undercoated, nickel-undercoated, tin/nickel alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.
Note: Embossed-taping products have no dimple.

Model No.	Material and Finish
Supplied on embossed tape	Housing PPS, UL94V-0
RV-SS4G-F30N-E()	Contact Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated
Supplied in tray	Shell cover Copper alloy, copper-undercoated, nickel-plated
RV-SS4G-F30N-E()	Shell Mild steel,copper-undercoated, nickel-undercoated, tin/nickel alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.
Note: Embossed-taping products have no dimple.

Type	Applicable PC board thickness (mm)	Dimensions (mm)	
		A	B
Normal type	0.8	2.15	0.8
	1.6	2.45	1.6

Note: 1. Receptacles are not UL/CSA approved.

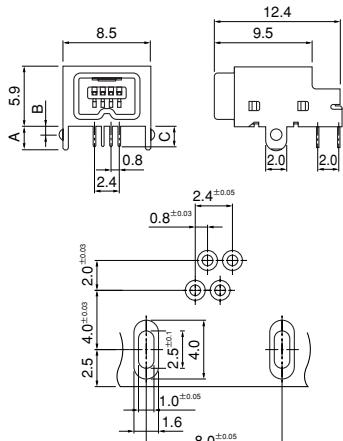
2. Model No. : () denotes the applicable PC board thickness.

08 ... For 0.8mm thick PC board

16 ... For 1.6mm thick PC board

Receptacle

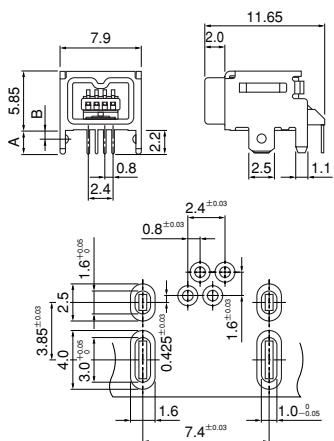
Reverse <Through-hole type>



Model No.	Material and Finish
RV-SS4D-R-A ()	Housing PBT, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

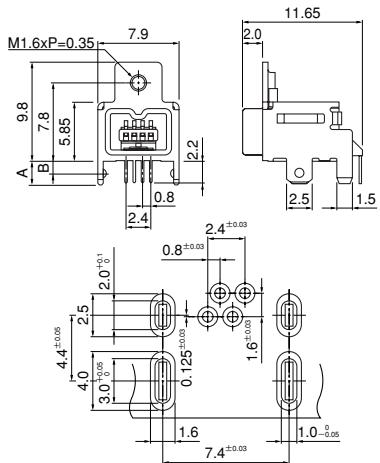
Normal <Through-hole type>



Model No.	Material and Finish
RV-SS4D-N-B ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

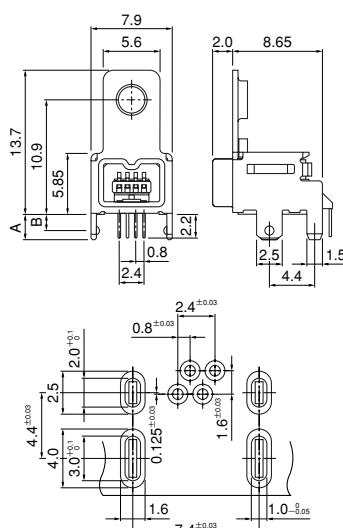
Normal <Through-hole type> with upper flange<M1.6>



Model No.	Material and Finish
RV-SS4D-F16N-C ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

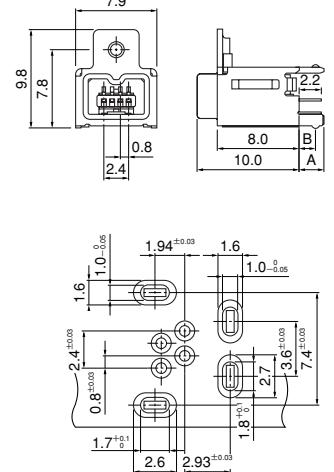
Normal <Through-hole type> with upper flange<M3>



Model No.	Material and Finish
RV-SS4D-F30N-E ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

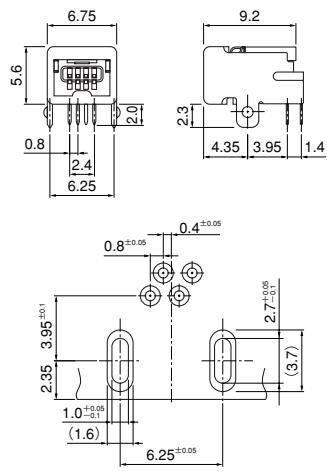
Top entry <Through-hole type> with flange<M1.6>



Model No.	Material and Finish
RV-ST4D-F16N-D ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

Reverse <Through-hole type> Small type



Model No.	Material and Finish
RV-SS4D-RS-H08-1	Housing PA9T
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated
	Shell cover Copper alloy, nickel-undercoated,tin-plated
	Shell Copper alloy, tin-plated(reflow treatment)

RoHS compliance This product displays (LF) on a label.

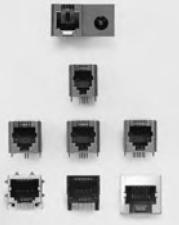
Type	Applicable PC board thickness (mm)	Dimensions (mm)		
		A	B	C
Normal type	0.8	2.15	0.8	-
	1.6	2.45	1.6	-
Reverse type	0.8	2.3	0.8	2.0
	1.6	3.1	1.6	2.8

Note: 1. Receptacles are not UL/CSA approved.

2. Model No. : () denotes the applicable PC board thickness.

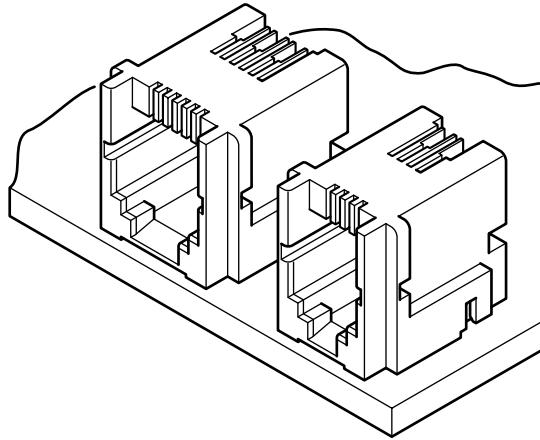
08 ... For 0.8mm thick PC board

16 ... For 1.6mm thick PC board



MJ CONNECTOR

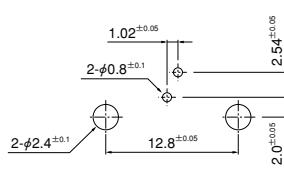
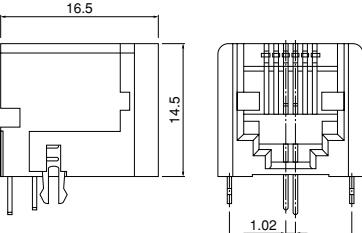
Modular jack connectors



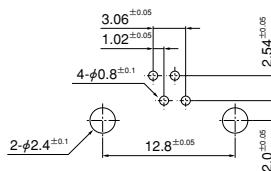
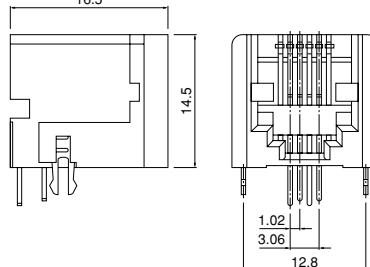
- **Upper contact point**
- **Metal hook**
- **Shielding effect**
- **Grounding**
- **Correspond to high-speed LAN transmission (MJ-88U-SD315K-T)**

Connector

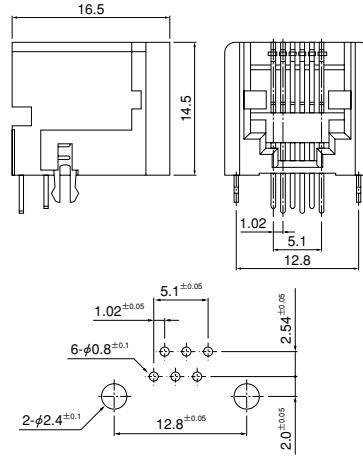
Normal type 2/6 type



4/6 type



6/6 type

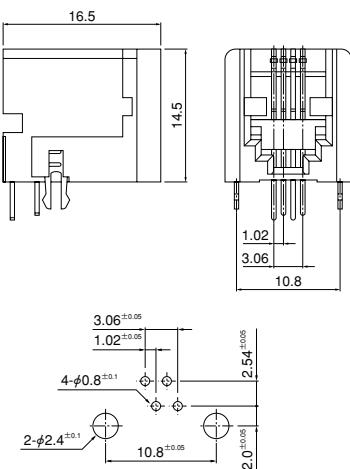


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

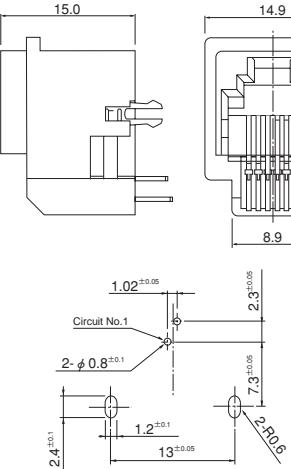
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Connector and PC board layout (viewed from component side)

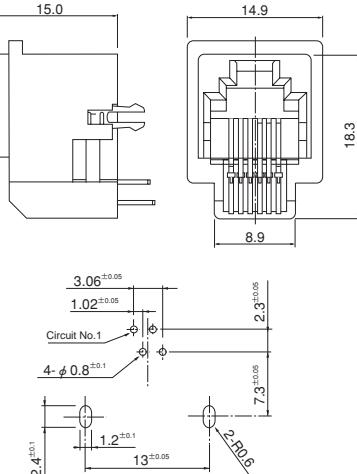
Normal type
4/4 type



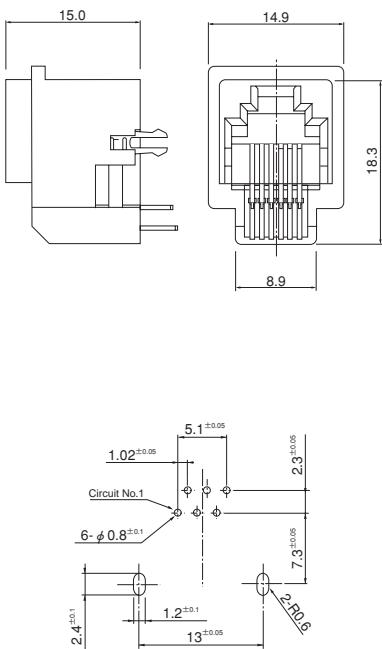
Straight type
2/6 type



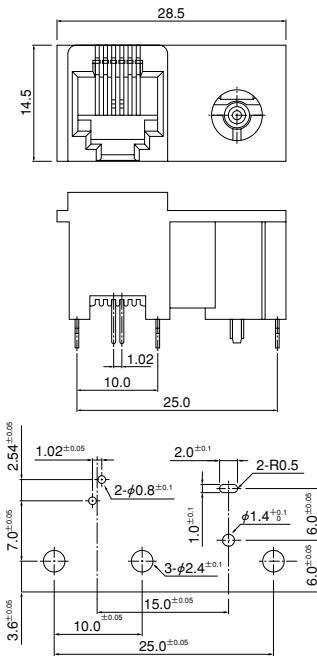
4/6 type



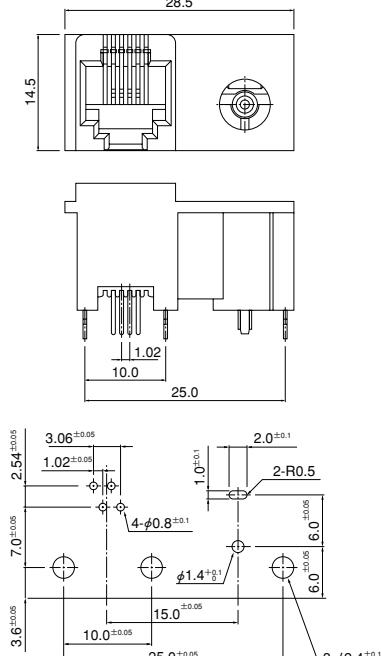
6/6 type



2/6 type with DC jack



4/6 type with DC jack



	Type	Circuits	Model No.	Q'ty / box
Normal type	2/6	2	MJ-62J-RD315	270
	4/6	4	MJ-64J-RD315	270
	6/6	6	MJ-66J-RD315	270
	4/4	4	MJ-44J-RD315	306
Straight type	2/6	2	MJ-62C-SD335	180
	4/6	4	MJ-64C-SD335	180
	6/6	6	MJ-66C-SD335	180
	2/6 with DC jack	2	MJ-62D-SD335	108
	4/6 with DC jack	4	MJ-64D-SD335	108

Material and Finish
Contact: Normal type/ Phosphor bronze, nickel-undercoated, Mating part; gold-plated 1.27µm min. Solder tail; tin-plated (reflow treatment)
Straight type/ Phosphor bronze, nickel-undercoated, Mating part; gold-plated 1.27µm min. Overall; gold-plated (flash)
Housing: Glass-filled PBT, UL94V-0 Hook pin: Brass, tin-plated (reflow treatment) Moving contact (spring): Copper alloy, tin-plated (reflow treatment) [with-DC-jack type only] Stationary contact (pin): Brass, nickel-undercoated, tin/copper alloy-plated [with-DC-jack type only]

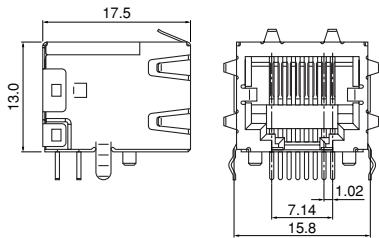
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

RoHS compliance This product displays (LF)(SN) on a label.
The product with DC jack displays (LF) on a label.

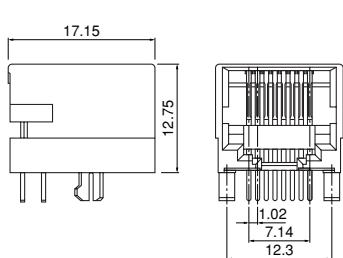
MJ CONNECTOR

Connector and PC board layout (viewed from component side)

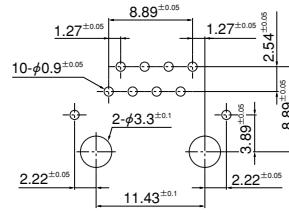
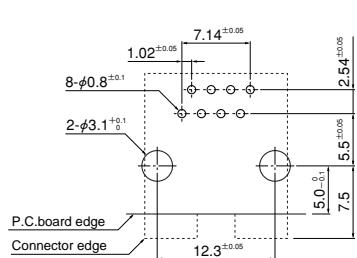
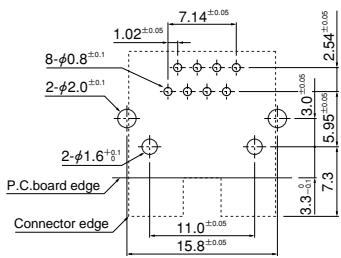
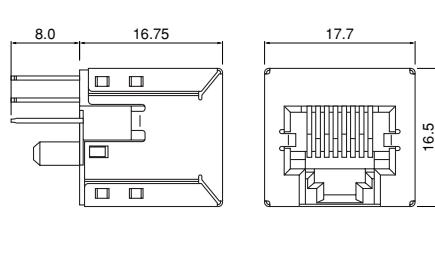
8 circuits
Normal type (with shielding)



8 circuits
Normal type (with plastic hook)



8 circuits
Straight type (with shielding)



Type	Circuits	Model No.	Q'ty / box
Normal type (with shielding)	8	MJ-88H-RD315K	520
Normal type (with plastic hook)	8	MJ-88R-RD315K	520
Straight type (with shielding)	8	MJ-88U-SD315K-T	144

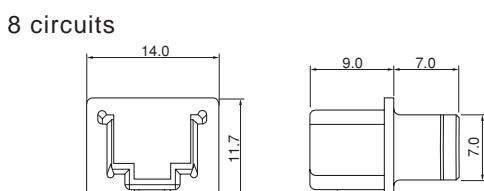
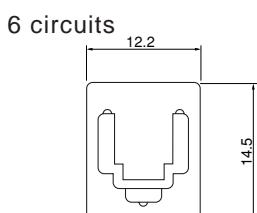
Material and Finish

Contact: Phosphor bronze, nickel-undercoated,
Mating part: gold-plated 1.27µm min.
Solder tail: tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0(Normal type)
Glass-filled LCP, UL94V-0(Straight type)
Shield cover: Phosphor bronze, tin-plated (reflow treatment) [Normal type, Straight type]
Shield pin: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) [Straight type]

RoHS compliance This product displays (LF)(SN) on a label.

- Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Cap for dust



Circuits	Model No.	Q'ty / box
6	MJ-JP56K	500
8	MJ-JP68K	1,000

Material

MJ-JP56K: PA 66, UL94V-0
MJ-JP68K: PBT, UL94V-0

RoHS compliance
Note: Not UL/CSA approved.

3

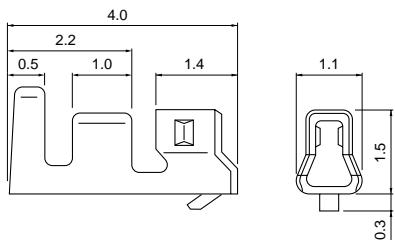
Wire to Wire Connectors

TABLE OF CONTENTS

• 1.5mm pitch	ZM CONNECTOR	330
• 2.0mm pitch	JWPF CONNECTOR	332
• 2.5mm pitch	XM CONNECTOR	334
	SM CONNECTOR	337
	HM CONNECTOR	342
	XA CONNECTOR	345
	XAD CONNECTOR	348
• 3.5mm pitch	BHS CONNECTOR	351
• 3.96mm pitch	HL CONNECTOR	353
	SL CONNECTOR	356
• 4.0/8.0mm pitch	BHM CONNECTOR	359
• 4.5mm pitch	YL CONNECTOR	361
	YLN CONNECTOR	367
	EL CONNECTOR	369
• 5.0mm pitch	ZLCONNECTOR	373
	XL CONNECTOR	377
	VL CONNECTOR	380
• 6.2mm pitch	MWP CONNECTOR	384
• 7.0mm pitch	WPK CONNECTOR	386
• Single-circuit	RIZ CONNECTOR	388
	RWZ CONNECTOR	392
	OTZ CONNECTOR	398
• 2.7mm pitch	RPJ CONNECTOR	402

Receptacle / ZH connector (Crimp style)

Contact



Model No.	Dimensions (mm)		Insulation (mm)	Q'ty / reel
	mm ²	AWG #		
SZH-003T-P0.5	0.032 ~ 0.08	32 ~ 28	0.5 ~ 0.9	16,000
Material and Finish				

Phosphor bronze, tin-plated (reflow treatment)

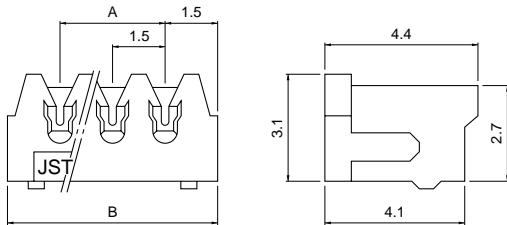
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-003T-P0.5	AP-K2N	MKS-L	MK/SZH-003-05	APLMK SZH003-05
		*MKS-SC	SC/SZH-003-05	APLSC SZH003-05

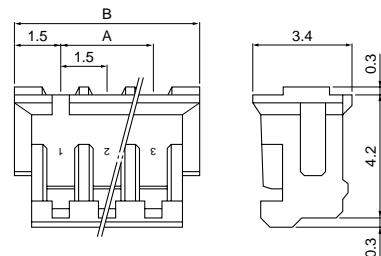
Note: *Strip-crimp applicator

Receptacle / ZR connector (IDC)

Receptacle



Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	ZHR-2	1.5	4.5	1,000
3	ZHR-3	3.0	6.0	1,000
9	ZHR-9	12.0	15.0	1,000
13	ZHR-13	18.0	21.0	1,000

Material

PA 66, UL94V-0

RoHS compliance

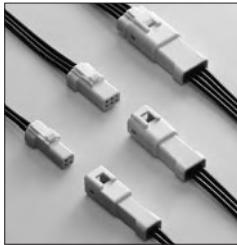
Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	AWG #30	AWG #28	A	B	
2	02ZR-3H-P	02ZR-8M-P	1.5	4.5	2,000
3	03ZR-3H-P	03ZR-8M-P	3.0	6.0	2,000
9	09ZR-3H-P	09ZR-8M-P	12.0	15.0	2,000
13	13ZR-3H-P	13ZR-8M-P	18.0	21.0	2,000

Material

Contact: Phosphor bronze, tin-plated (reflow treatment)

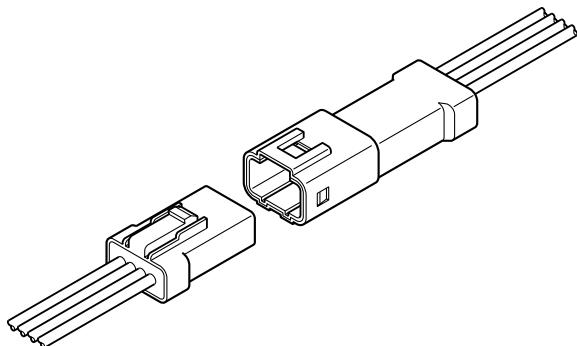
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance



JWPF CONNECTOR

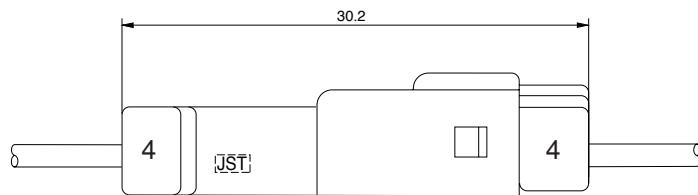
2.0mm pitch/Crimp style wire-to-wire connectors



Applicable for waterproof usage. This is the wire-to-wire connector that is more than grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).

- **Waterproof grade**
- **Contained seal ring**
- **Solid rubber seal**
- **Double-spring construction**
- **Housing-to-terminal locks**
- **Inner-housing lock**

Assembly layout



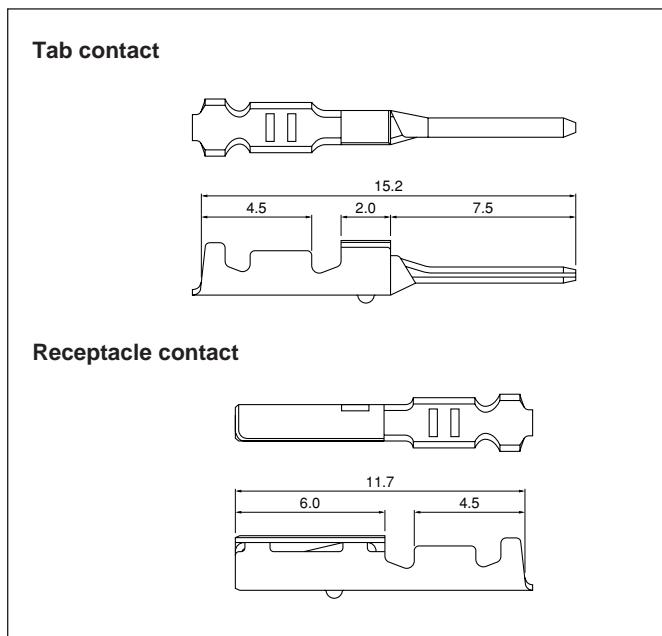
Specifications

- Current rating: 3A AC, DC (AWG #22)
 - Voltage rating: 100V AC, DC
 - Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/5m Ω max.
After environmental testing/10m Ω max.
 - Insulation resistance: 800M Ω min.
 - Withstanding voltage: 1,000V AC/minute
 - Applicable wire: AWG #26 to #22
0.13 to 0.33mm²
Insulation O.D./1.4 to 1.6mm
 - Waterproof grade: More than grade 7 ingress protection of JIS C 0920(IEC 60529 IPX7)
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

Contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
Tab contact	Receptacle contact	mm ²	AWG #		
SWPT-001T-P025	SWPR-001T-P025	0.13 ~ 0.33	26 ~ 22	1.4 ~ 1.6	8,200

Material and Finish

Tab contact: Phosphor bronze, tin-plated (reflow treatment)
Receptacle contact: Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPT-001T-P025	AP-K2N	MKS-L	MK/SWPR/T-001-025	APLMK SWPR/T001-025
SWPR-001T-P025		—	—	—

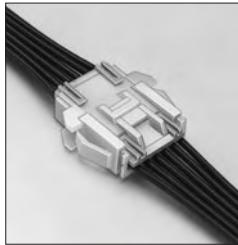
Housing

Material: PBT, UL94V-0, natural (white)

Circuits	Tab housing (for Tab contact)	Q'ty/ bag	Receptacle housing (for Receptacle contact)	Q'ty/ bag
2	02T-JWPF-VSLE-S 	1,000	02R-JWPF-VSLE-S 	1,000
3	03T-JWPF-VSLE-S 	1,000	03R-JWPF-VSLE-S 	1,000
4	04T-JWPF-VSLE-S 	1,000	04R-JWPF-VSLE-S 	1,000
8	08T-JWPF-VSLE-D 	1,000	08R-JWPF-VSLE-D 	1,000

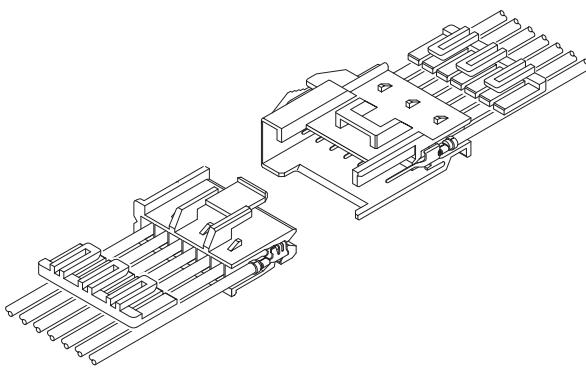
RoHS compliance

- Note: 1. Receptacle housing comes with seal rubber plate.
2. Tab housing comes with seal rubber plate, seal ring and seal ring holder.



XM CONNECTOR

2.5mm pitch/Crimp style wire-to-wire connectors

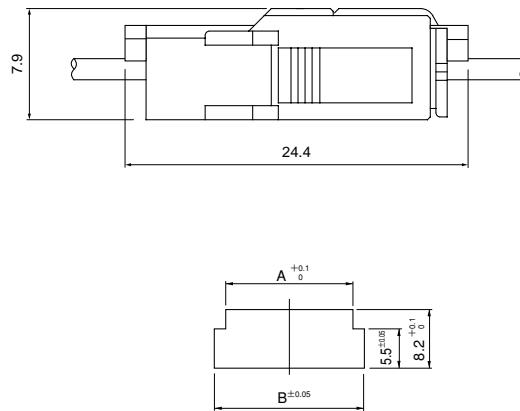


The retainer provides added protection against non-insertion or disconnection.

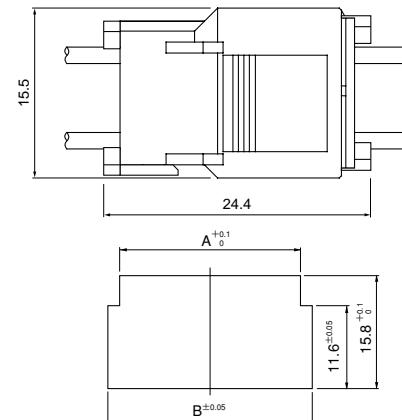
- **Inner-housing lock**
- **Secondary retainers**
- **Housing lance**
- **Mountable on a variety of panels**
- **Contacts smoothly insert into the housings without colliding with internal obstacles**

Panel Layout and Assembly layout

(2 to 12 circuits)



(18 circuits)



Circuits	Receptacle housing	Panel hole dimensions (mm)		Applicable panel thickness (mm)
		A $^{+0.1}_0$	B $^{\pm 0.05}$	
2	XMR-02V	9.3	12.6	0.5 ~ 1.8
3	XMR-03V	10.3	13.6	
4	XMR-04V	12.8	16.1	
5	XMR-05V	15.3	18.6	
6	XMR-06V	17.8	21.1	
7	XMR-07V	20.3	23.6	
8	XMR-08V	22.8	26.1	
9	XMR-09V	25.3	28.6	
10	XMR-10V	27.8	31.1	
11	XMR-11V	30.3	33.6	
12	XMR-12V	32.8	36.1	
18	XMR-18V	25.3	28.6	

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

2. The strength of the panel must be considered when punching two or more holes.

3. The connector must be inserted from the same side as the hole is punched.

Specifications

- Current rating: 3A AC, DC max.
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20
0.08 to 0.50mm²
- Applicable panel thickness: 0.5 to 1.8mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

Contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SXM-001T-P0.6	SXA-001T-P0.6	0.08 ~ 0.33	28 ~ 22	1.2 ~ 1.9	7,000	8,000
*SXM-01T-P0.6	SXA-01T-P0.6	0.22 ~ 0.50	24 ~ 20	1.5 ~ 1.9	7,000	8,000
—	SXA-001T-P0.6L	0.13 ~ 0.33	26 ~ 22	1.3 ~ 1.9	—	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

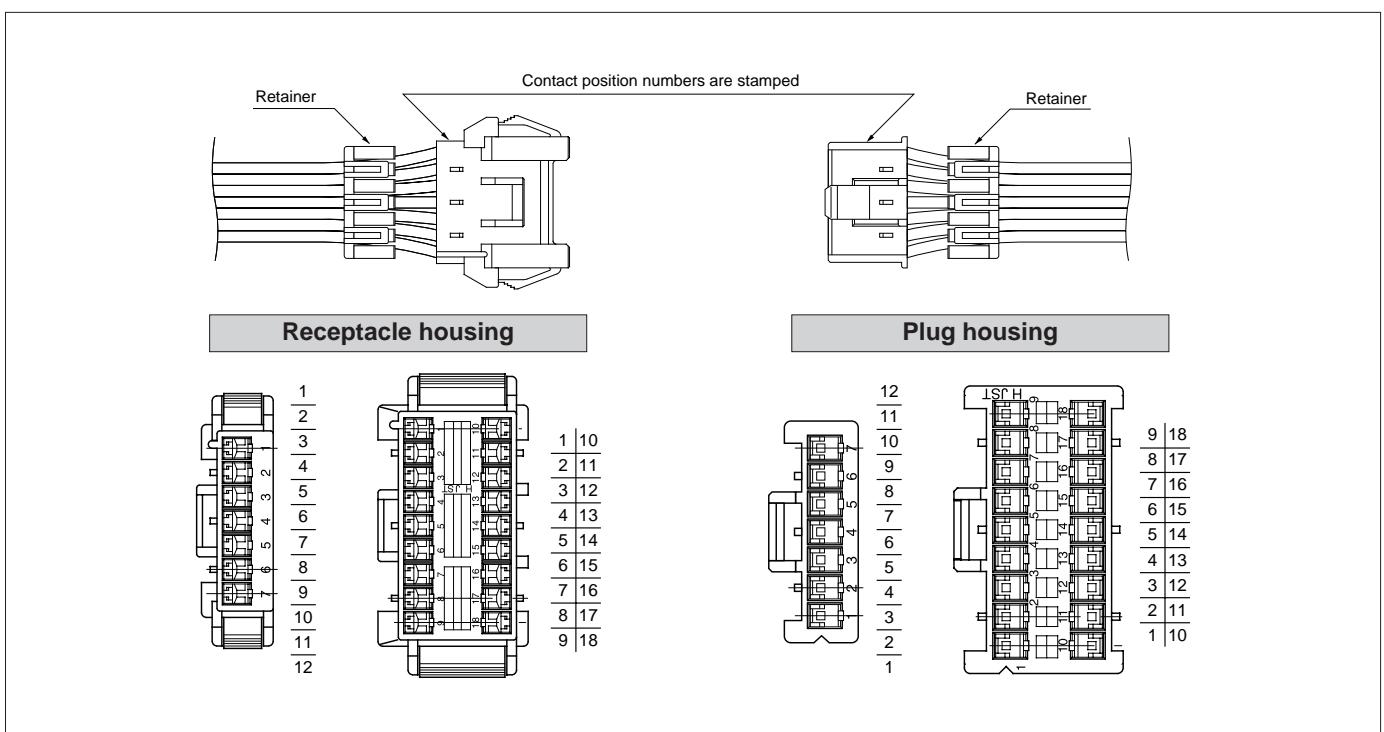
Note: 1. Contact JST for special products.
2. *Marked product is not UL/CSA approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXM-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXM-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06
SXA-001T-P0.6L	AP-K2N	MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

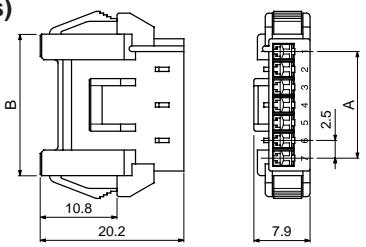
Contact position location numbers



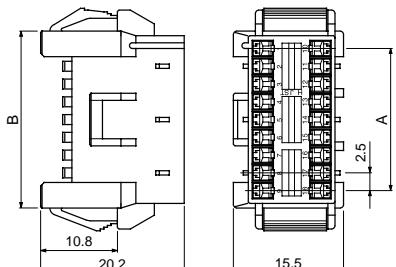
XM CONNECTOR

Receptacle housing (for Pin contact)

(2 to 12 circuits)



(18 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	XMR-02V	2.5	8.9	1,000
3	XMR-03V	5.0	9.9	1,000
4	XMR-04V	7.5	12.4	500
5	XMR-05V	10.0	14.9	500
6	XMR-06V	12.5	17.4	500
7	XMR-07V	15.0	19.9	500
8	XMR-08V	17.5	22.4	500
9	XMR-09V	20.0	24.9	500
10	XMR-10V	22.5	27.4	500
11	XMR-11V	25.0	29.9	500
12	XMR-12V	27.5	32.4	500
18	XMR-18V	20.0	24.9	500

Material

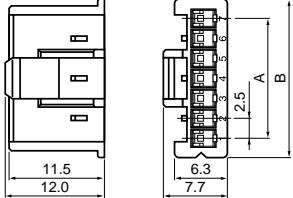
PA 66, UL94V-0

RoHS compliance

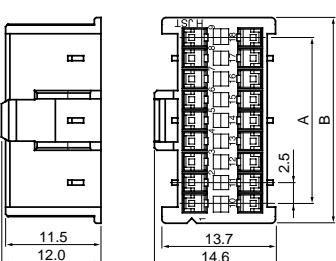
Note: Receptacle housings without panel lock device are also available for 2, 3, 4, 6, 7, 8 and 9 circuits.

Plug housing (for Socket contact)

(2 to 12 circuits)



(18 circuits)



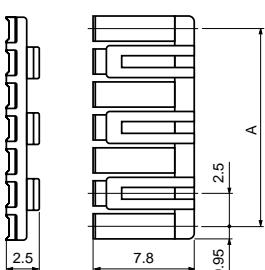
Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	XMP-02V	2.5	8.8	1,000
3	XMP-03V	5.0	9.8	1,000
4	XMP-04V	7.5	12.3	1,000
5	XMP-05V	10.0	14.8	500
6	XMP-06V	12.5	17.3	500
7	XMP-07V	15.0	19.8	500
8	XMP-08V	17.5	22.3	500
9	XMP-09V	20.0	24.8	500
10	XMP-10V	22.5	27.3	500
11	XMP-11V	25.0	29.8	500
12	XMP-12V	27.5	32.3	500
18	XMP-18V	20.0	24.8	500

Material

PA 66, UL94V-0

RoHS compliance

Retainer



Circuits	Model No.	Dimensions A (mm)	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9 · 18	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000

Material

Glass-filled PA 66, UL94V-0

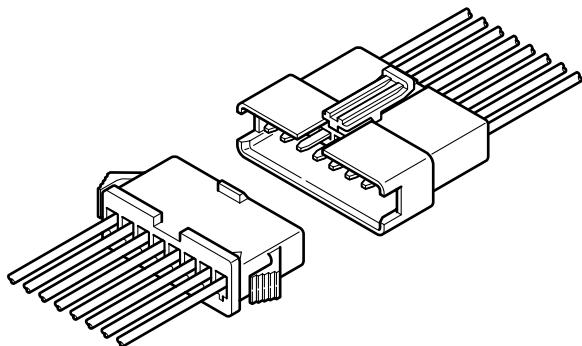
RoHS compliance

Note: Commonly used for 9-circuit and 18-circuit housings.



SM CONNECTOR

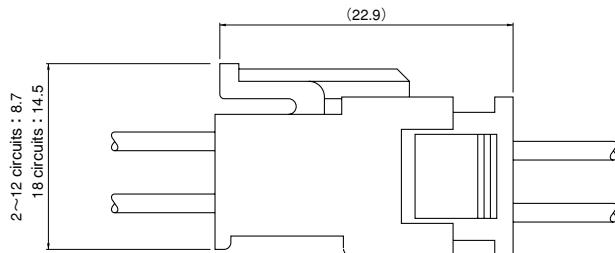
2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



The SM series are 2.5mm pitch, wire-to-wire connectors that perform reliably in high-density, small current applications.

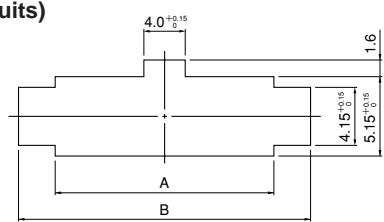
- **High contact pressure**
- **Highly reliable housing construction**
- **Mountable on a variety of panels**
- **Arm lock mechanism**

Assembly layout

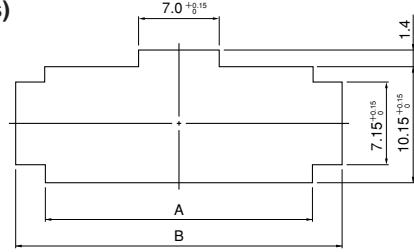


Panel layout

(2 to 12 circuits)



(18 circuits)



Specifications

- Current rating: 3A AC, DC max.
 - Voltage rating: 250V AC, DC max.
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
 - Insulation resistance: 500M Ω min.
 - Withstanding voltage: 1,500V AC/minute
 - Applicable wire: AWG #28 to #22
0.08 to 0.33mm²
 - Applicable panel thickness: 0.5 to 2.0mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

△ R50120150

Circuits	Plug housing Model No.	Panel thickness (mm)			
		0.5 ~ 0.9		1.0 ~ 1.5	
		1.5 ~ 2.0		General tolerance	
2	SMP-02V-B(N)C	A ₀ ^{+0.15}	B ₀ ^{+0.1}	A ₀ ^{+0.15}	B ₀ ^{+0.1}
3	SMP-03V-B(N)C	5.7	9.6	5.7	9.8
4	SMP-04V-B(N)C	8.2	12.1	8.2	12.3
5	SMP-05V-B(N)C	10.7	14.6	10.7	14.8
6	SMP-06V-B(N)C	13.2	17.1	13.2	17.3
7	SMP-07V-B(N)C	15.7	19.6	15.7	19.8
8	SMP-08V-B(N)C	18.2	22.1	18.2	22.3
9	SMP-09V-B(N)C	20.7	24.6	20.7	24.8
10	SMP-10V-B(N)C	23.2	27.1	23.2	27.3
11	SMP-11V-B(N)C	25.7	29.6	25.7	29.8
12	SMP-12V-B(N)C	28.2	32.1	28.2	32.3
18	SMP-18V-B(N)C	30.7	34.6	30.7	34.8
		30.7	34.6	30.7	34.8
		32.2	36.1	32.2	36.1
		34.7	38.6	34.7	38.6

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

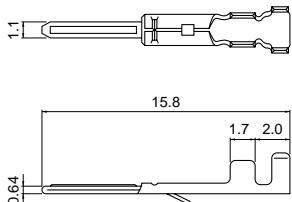
2. The strength of the panel must be considered when punching two or more holes.

3. The connector must be inserted from the same side as the hole is punched.

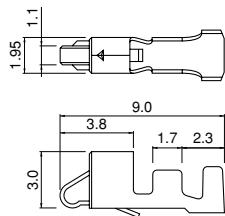
SM CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SYM-001T-P0.6	SHF-001T-0.8BS	0.08~0.33	28~22	1.2~1.8	Pin contact: 8,500 Socket contact: 5,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

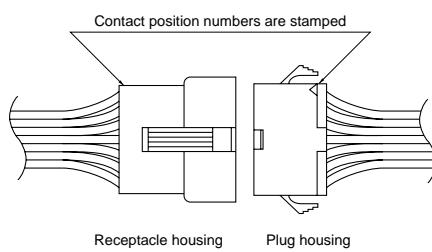
Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-001T-P0.6	AP-K2N	MKS-LS・MKS-L	MK/SYM-001-06	APLMK SYM001-06
		*MKS-SC	SC/SYM-001-06	APLSC SYM001-06

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHF-001T-0.8BS	AP-K2N	MKS-LS・MKS-L	MK/SHF-001-08S	APLMK SHF001-08S
		*MKS-SC	SC/SHF-001-08S	APLSC SHF001-08S

Contact position location numbers



Receptacle housing	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
	10 1
	11 2
	12 3
	13 4
	14 5
	15 6
	16 7
	17 8
	18 9

Plug housing	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
	1 10
	2 11
	3 12
	4 13
	5 14
	6 15
	7 16
	8 17
	9 18

Housing

Material: PA 6, UL94V-0

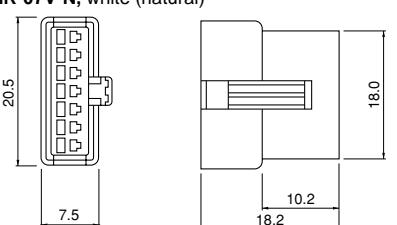
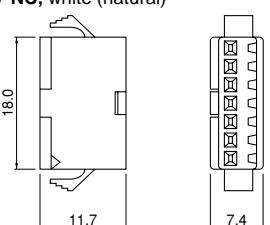
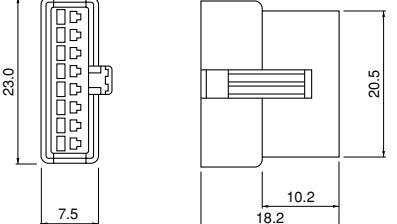
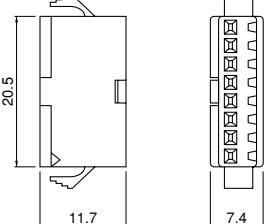
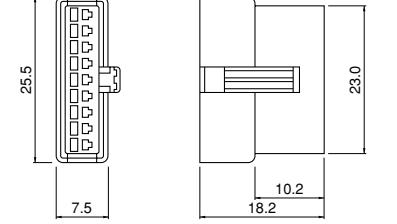
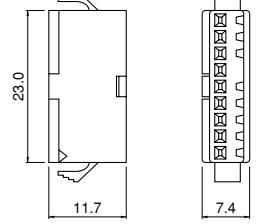
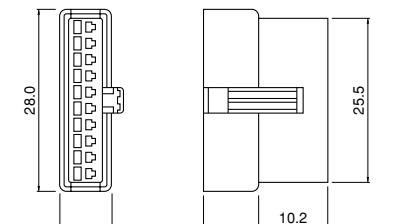
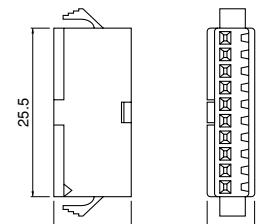
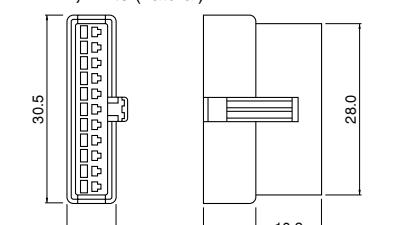
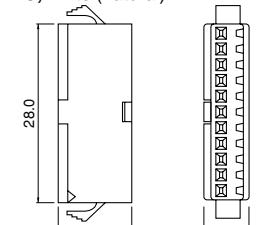
Circuits	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag
2	3A	SMR-02V-B , black SMR-02V-N , white (natural) 	1,000	SMP-02V-BC , black SMP-02V-NC , white (natural) 	1,000
3	3A	SMR-03V-B , black SMR-03V-N , white (natural) 	1,000	SMP-03V-BC , black SMP-03V-NC , white (natural) 	1,000
4	3A	SMR-04V-B , black SMR-04V-N , white (natural) 	500	SMP-04V-BC , black SMP-04V-NC , white (natural) 	1,000
5	3A	SMR-05V-B , black SMR-05V-N , white (natural) 	500	SMP-05V-BC , black SMP-05V-NC , white (natural) 	1,000
6	3A	SMR-06V-B , black SMR-06V-N , white (natural) 	500	SMP-06V-BC , black SMP-06V-NC , white (natural) 	500

RoHS compliance

SM CONNECTOR

Housing

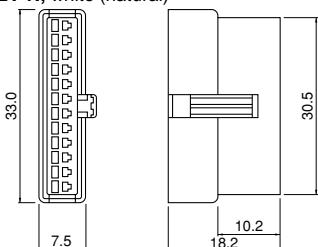
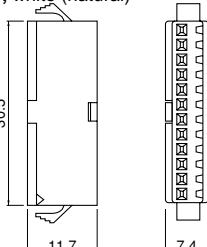
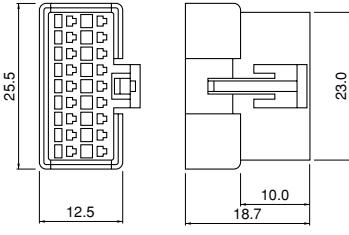
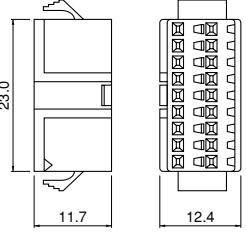
Material: PA 6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	
		Q'ty / bag	Q'ty / bag	
7	3A	SMR-07V-B , black SMR-07V-N , white (natural) 	SMP-07V-BC , black SMP-07V-NC , white (natural) 	500
8	3A	SMR-08V-B , black SMR-08V-N , white (natural) 	SMP-08V-BC , black SMP-08V-NC , white (natural) 	500
9	3A	SMR-09V-B , black SMR-09V-N , white (natural) 	SMP-09V-BC , black SMP-09V-NC , white (natural) 	500
10	3A	SMR-10V-B , black SMR-10V-N , white (natural) 	SMP-10V-BC , black SMP-10V-NC , white (natural) 	200
11	3A	SMR-11V-B , black SMR-11V-N , white (natural) 	SMP-11V-BC , black SMP-11V-NC , white (natural) 	200

RoHS compliance

Housing

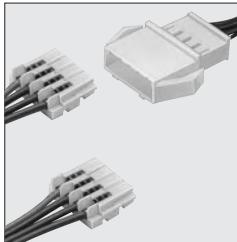
Material: PA 6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag
12	3A	SMR-12V-B , black SMR-12V-N , white (natural) 	500	SMP-12V-BC , black SMP-12V-NC , white (natural) 	500
18	2A	SMR-18V-B , black SMR-18V-N , white (natural) 	200	SMP-18V-BC , black SMP-18V-NC , white (natural) 	200

RoHS compliance

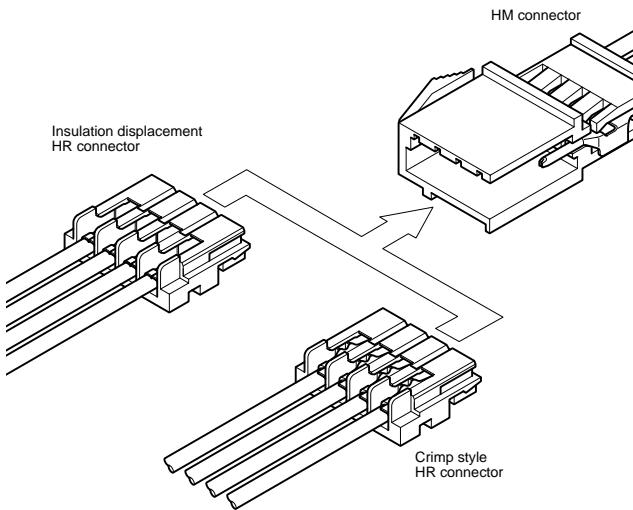
Note: 1. SM connectors with any number of circuits can be used either panel mounted or free hanging.

2. Contact JST for special products.



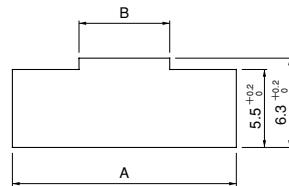
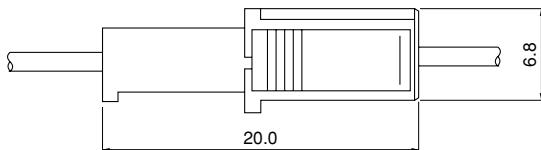
HM CONNECTOR

2.5mm pitch/Wire-to-wire connectors - Matable with HR receptacles



- Both crimp style and insulation displacement receptacles can be used
- Housing-to-terminal locks
- Mountable on a variety of panels
- Highly reliable housing construction

Panel layout and Assembly layout



Circuits	Housing	Panel hole dimensions (mm)		Applicable panel thickness (mm)
		A ^{+0.2} / ₀	B ^{+0.2} / ₀	
2	HMR-02V	13.3	3.9	0.8 ~ 1.6
3	HMR-03V	15.8	6.4	
4	HMR-04V	18.3	8.9	
8	HMR-08V	28.3	18.9	
12	HMR-12V	38.3	28.9	

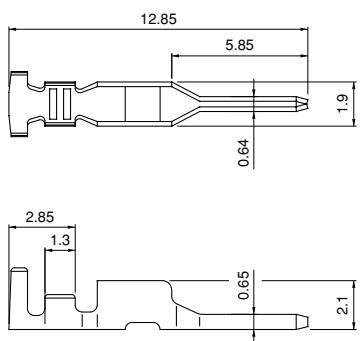
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

2. The strength of the panel must be considered when punching two or more holes.

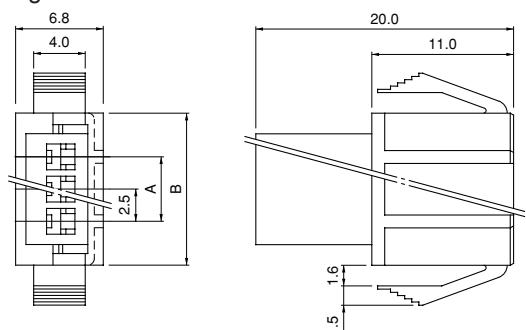
3. The connector must be inserted from the same side as the hole is punched.

Plug / HM connector

Contact



Housing



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SMR-001T-0.6	0.13~0.33	26~22	1.3~1.7	9,000
Material and Finish				
Brass, tin-plated (reflow treatment)				

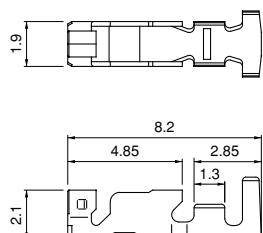
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SMR-001T-0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

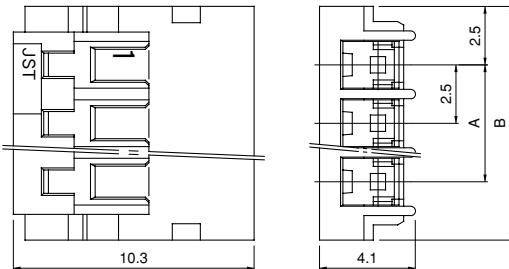
Note: *Strip-crimp applicator

Receptacle/Crimp style HR connector

Contact



Housing



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SHR-001T-P0.6	0.13~0.33	26~22	1.3~1.7	9,000
Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHR-001T-P0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

Note: *Strip-crimp applicator

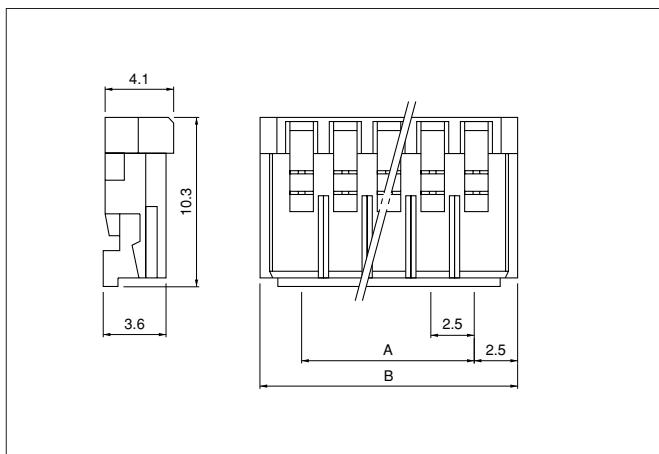
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	HRP-02-S	2.5	7.5	2,000
3	HRP-03-S	5.0	10.0	2,000
4	HRP-04-S	7.5	12.5	1,000
8	HRP-08-S	17.5	22.5	500
12	HRP-12-S	27.5	32.5	500

Material PA 66, UL94V-0

RoHS compliance

HM CONNECTOR

Receptacle/Insulation displacement HR connector



Circuits	Model No.			Dimensions (mm)		Q'ty / bag
	# 28	# 26	# 24	A	B	
2	02HR-8M-P-N	02HR-6S-P-N	02HR-4K-P-N	2.5	7.5	1,000
3	03HR-8M-P-N	03HR-6S-P-N	03HR-4K-P-N	5.0	10.0	1,000
4	04HR-8M-P-N	04HR-6S-P-N	04HR-4K-P-N	7.5	12.5	1,000
8	08HR-8M-P-N	08HR-6S-P-N	08HR-4K-P-N	17.5	22.5	500
12	12HR-8M-P-N	12HR-6S-P-N	12HR-4K-P-N	27.5	32.5	500

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)

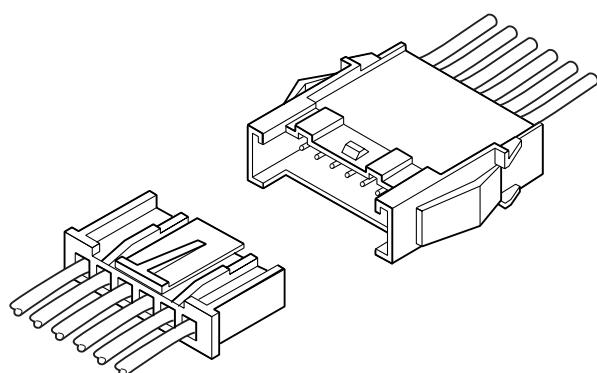
Housing: PA 66, UL94V-0

RoHS compliance



XA CONNECTOR

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



2.5mm pitch wire-to-wire connector that can mate with the socket of XA connector (board-to-wire type). Reliable secondary retainer is available. Panel mount is applicable.

- Possible to mate with the existing XA socket
- Inner type contact lance
- Mountable on a variety of panels
- Secondary retainer
- Secure lock construction

Specifications

- Current rating: 3A AC, DC max. (AWG #20)
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10mΩ max.
After environmental testing/20mΩ max.
- Insulation resistance: 500MΩ min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

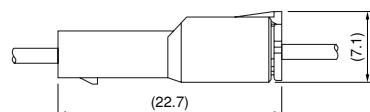
■ Recognized E60389

■ Certified LR20812

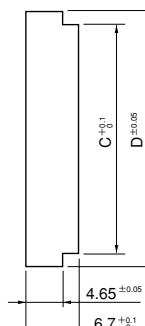
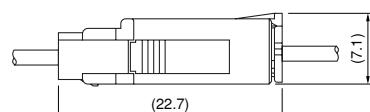
△ R9851220

Assembly layout and Panel layout

Without panel locks



With panel locks

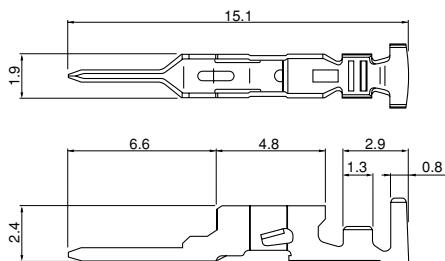


Note: C and D dimensions: Refer to receptacle housing.

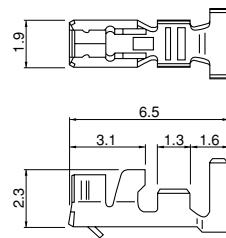
XA CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D.(mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SXAM-001T-P0.6	SXA-001T-P0.6	0.08~0.33	28~22	1.2~1.9	7,000	8,000
SXAM-01T-P0.6	SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	7,000	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for gold-plated products.

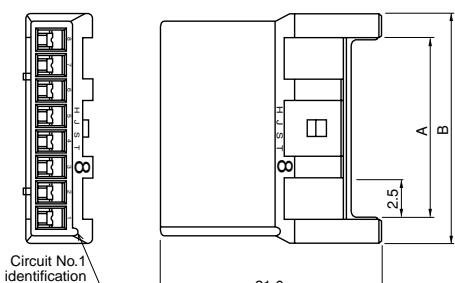
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXAM-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXAM-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

Receptacle housing

Without panel locks

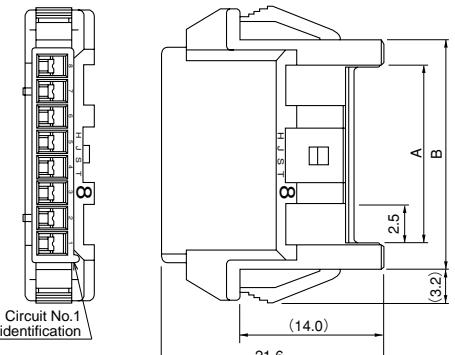


Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Without panel locks	With panel locks	A	B	C	D	
2	XARR-02VF	XARR-02V	2.5	7.5	7.9	11.2	1,000
3	XARR-03VF	XARR-03V	5.0	10.0	10.4	13.7	1,000
4	XARR-04VF	XARR-04V	7.5	12.5	12.9	16.2	1,000
5	XARR-05VF	XARR-05V	10.0	15.0	15.4	18.7	1,000
6	XARR-06VF	XARR-06V	12.5	17.5	17.9	21.2	500
7	—	XARR-07V	15.0	20.0	20.4	23.7	500
8	XARR-08VF	XARR-08V	17.5	22.5	22.9	26.2	500
9	XARR-09VF	XARR-09V	20.0	25.0	25.4	28.7	500
10	XARR-10VF	XARR-10V	22.5	27.5	27.9	31.2	500
11	—	XARR-11V	25.0	30.0	30.4	33.7	500
12	XARR-12VF	XARR-12V	27.5	32.5	32.9	36.2	500
13	—	XARR-13V	30.0	35.0	35.4	38.7	500
14	—	XARR-14V	32.5	37.5	37.9	41.2	500
15	—	XARR-15V	35.0	40.0	40.4	43.7	500

Material

PA 66, UL94V-0, natural (white)

With panel locks

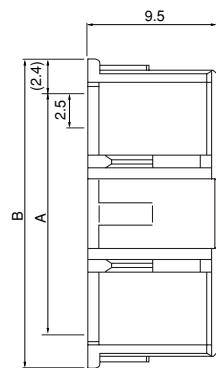
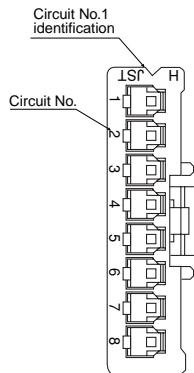


RoHS compliance

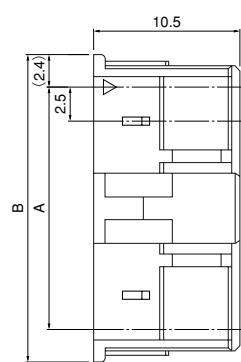
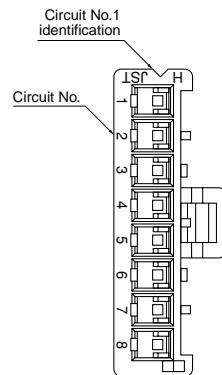
Note: C and D dimensions: Panel layout dimensions

Plug housing

Standard type



Retainer mountable type



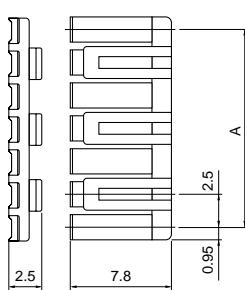
Circuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	XAP-02V-1	XARP-02V	2.5	7.3	1,000	1,000
3	XAP-03V-1	XARP-03V	5.0	9.8	1,000	1,000
4	XAP-04V-1	XARP-04V	7.5	12.3	1,000	1,000
5	XAP-05V-1	XARP-05V	10.0	14.8	1,000	1,000
6	XAP-06V-1	XARP-06V	12.5	17.3	1,000	1,000
7	XAP-07V-1	XARP-07V	15.0	19.8	1,000	1,000
8	XAP-08V-1	XARP-08V	17.5	22.3	1,000	1,000
9	XAP-09V-1	XARP-09V	20.0	24.8	1,000	1,000
10	XAP-10V-1	XARP-10V	22.5	27.3	1,000	1,000
11	XAP-11V-1	XARP-11V	25.0	29.8	1,000	1,000
12	XAP-12V-1	XARP-12V	27.5	32.3	1,000	1,000
13	XAP-13V-1	XARP-13V	30.0	34.8	1,000	1,000
14	XAP-14V-1	XARP-14V	32.5	37.3	500	1,000
15	XAP-15V-1	XARP-15V	35.0	39.8	500	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Retainer



Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000
13	XMS-13V	30.0	1,000
14	XMS-14V	32.5	1,000
15	XMS-15V	35.0	1,000

Material

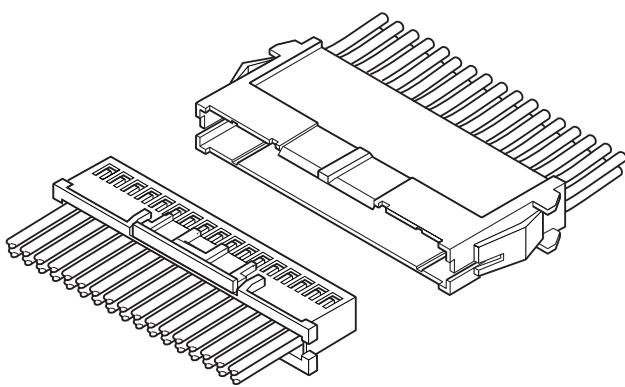
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance



XAD CONNECTOR

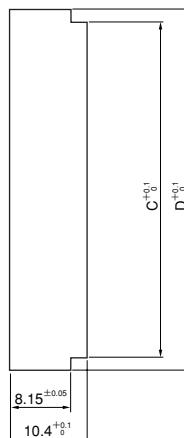
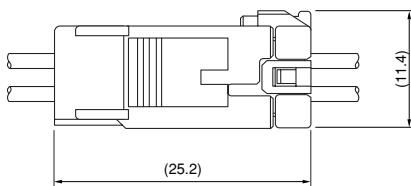
2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



2.5mm pitch grid (dual in raw) wire-to-wire connector that can mate with the socket of XAD connector (board-to-wire type).

- Possible to mate with the existing XAD socket
- Inner type contact lance
- Mountable on a variety of panels
- Secure lock construction

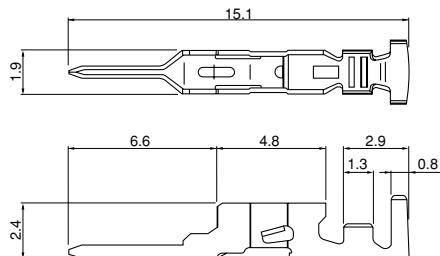
Assembly layout and Panel layout



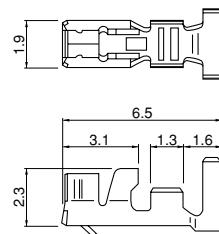
Note: C and D dimensions: Refer to receptacle housing.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D.(mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SXAM-001T-P0.6	SXA-001T-P0.6	0.08~0.33	28~22	1.2~1.9	7,000	8,000
SXAM-01T-P0.6	SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	7,000	8,000
—	SXA-001T-P0.6L	0.13~0.33	26~22	1.3~1.7	—	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for gold-plated products.

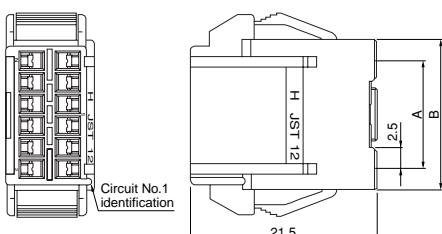
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06
SXA-001T-P0.6L	AP-K2N	MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXAM-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXAM-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

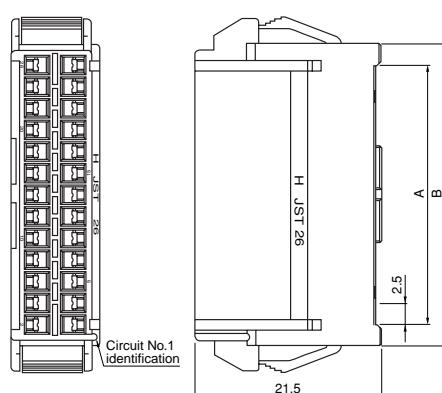
Note: *Strip-crimp applicator

Receptacle housing

8 to 16 circuits



18 to 40 circuits



Circuits	Model No.	Dimensions (mm)				Q'ty/bag
		A	B	C	D	
8	XADR-08V	7.5	12.5	12.9	16.2	1,000
10	XADR-10V	10.0	15.0	15.4	18.7	500
12	XADR-12V	12.5	17.5	17.9	21.2	500
14	XADR-14V	15.0	20.0	20.4	23.7	500
16	XADR-16V	17.5	22.5	22.9	26.2	300
18	XADR-18V	20.0	25.0	25.4	28.7	300
20	XADR-20V	22.5	27.5	27.9	31.2	300
22	XADR-22V	25.0	30.0	30.4	33.7	300
24	XADR-24V	27.5	32.5	32.9	36.2	300
26	XADR-26V	30.0	35.0	35.4	38.7	300
28	XADR-28V	32.5	37.5	37.9	41.2	300
30	XADR-30V	35.0	40.0	40.4	43.7	300
32	XADR-32V	37.5	42.5	42.9	46.2	300
34	XADR-34V	40.0	45.0	45.4	48.7	200
36	XADR-36V	42.5	47.5	47.9	51.2	200
40	XADR-40V	47.5	52.5	52.9	56.2	200

Material

PA 66, UL94V-0, natural (white)

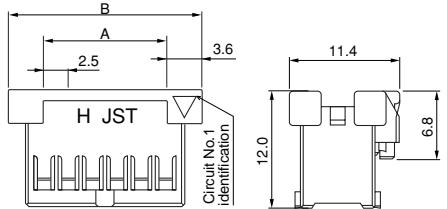
RoHS compliance

Note: C and D dimensions: Panel layout dimensions

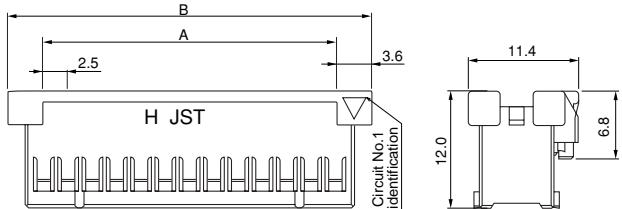
XAD CONNECTOR

Plug housing

8 to 16 circuits



18 to 40 circuits

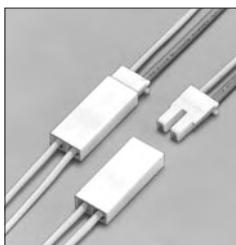


Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
8	XADRP-08V	7.5	14.7	1,000
10	XADRP-10V	10.0	17.2	1,000
12	XADRP-12V	12.5	19.7	1,000
14	XADRP-14V	15.0	22.2	1,000
16	XADRP-16V	17.5	24.7	1,000
18	XADRP-18V	20.0	27.2	1,000
20	XADRP-20V	22.5	29.7	500
22	XADRP-22V	25.0	32.2	500
24	XADRP-24V	27.5	34.7	500
26	XADRP-26V	30.0	37.2	500
28	XADRP-28V	32.5	39.7	500
30	XADRP-30V	35.0	42.2	500
32	XADRP-32V	37.5	44.7	500
34	XADRP-34V	40.0	47.2	500
36	XADRP-36V	42.5	49.7	500
40	XADRP-40V	47.5	54.7	250

Material

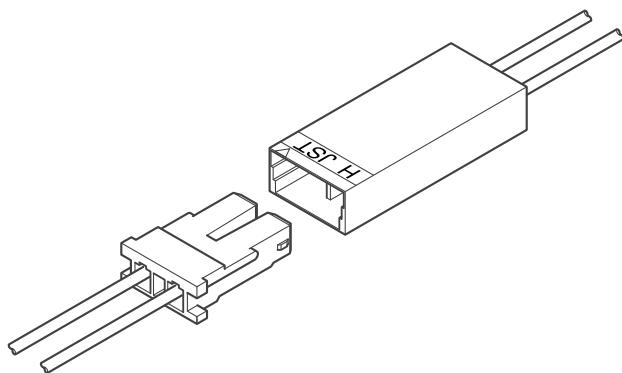
PA 66, UL94V-0, natural (white)

RoHS compliance



BHS CONNECTOR

3.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Wire-to-wire version connectors, designed for connecting liquid crystal display back light lamp to their starters.

- Compact and applicable to high voltage
- Adopt wide large for socket contact

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 1,400V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: Socket contact Conductor AWG #28 to #24
Insulation O.D./ 0.9 to 1.7mm
Pin contact Conductor AWG #28 to #24
Insulation O.D./ 0.9 to 1.8mm

* RoHS compliant products are published.

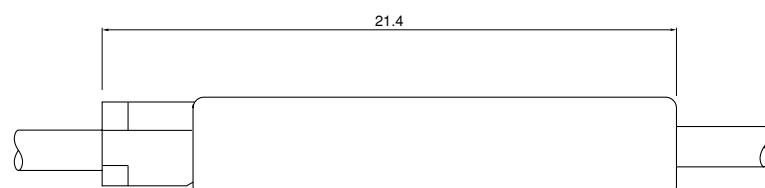
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

- Recognized E60389
- Certified LR20812

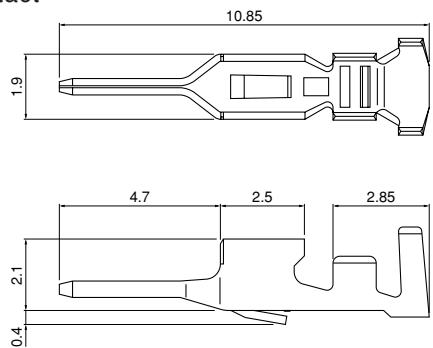
Assembly layout



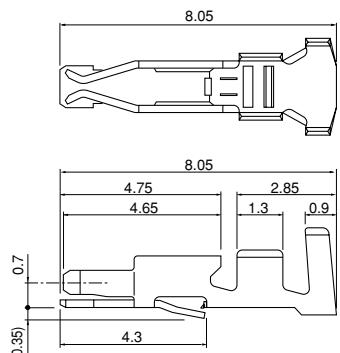
BHS CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)		Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #	Pin contact	Socket contact	Pin contact	Socket contact
SBHSM-002T-P0.5	SBHS-002T-P0.5A	0.08 ~ 0.22	28 ~ 24	0.9 ~ 1.8	0.9 ~ 1.7	5,000	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

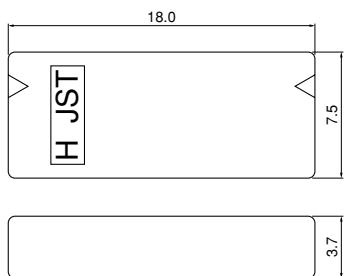
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHSM-002T-P0.5	AP-K2N	MKS-L	MK/SBHSM-002-05	APLMK SBHSM002-05

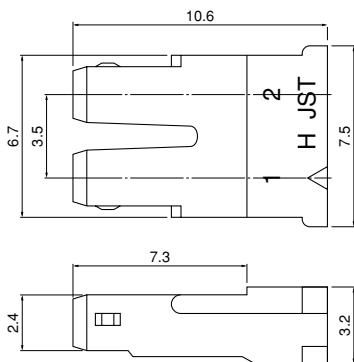
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05	APLMK SBHS002-05

Housing

Receptacle housing



Socket housing



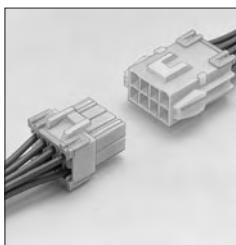
Model No.		Q'ty / bag
Receptacle housing	Socket housing	
BHSMR-02VS	BHSR-02VS-1 (N)	1,000

Material

PA 66, UL94V-0, natural (white)

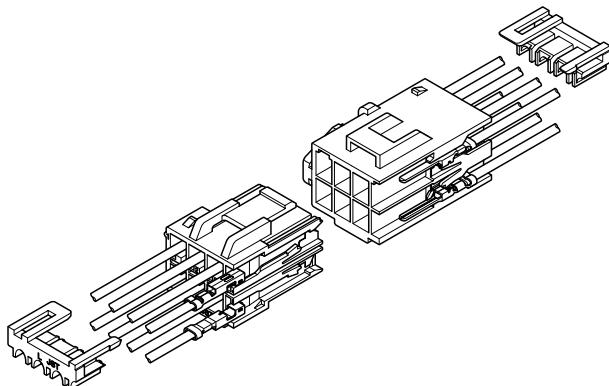
RoHS compliance

Note: Contact JST for BHSR-02VS-1.



HL CONNECTOR

3.96mm pitch/Disconnectable Crimp style Wire-to-wire connectors



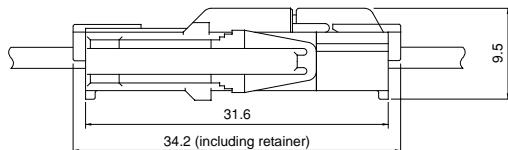
- Low insertion force contact
- Housing lance
- Inner-housing lock
- Secondary retainers
- Panel lock construction

Standards

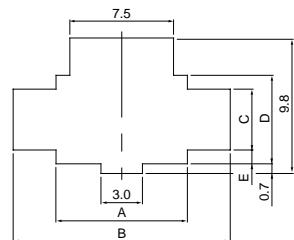
- Recognized E60389
 Certified LR20812
 R9551072

Panel layout and Assembly layout

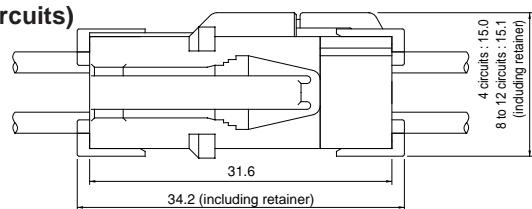
(2 and 3 circuits)



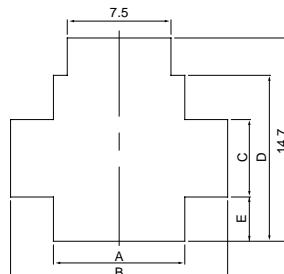
Shape I



(4, 8 and 12 circuits)



Shape II



Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm)					Applicable panel thickness (mm)
			A ± 0.13	B ± 0.13	C ± 0.1	D ± 0.13	E ± 0.1	
2	HLR-02V	I	9.5	15.7	4.4	6.4	1.0	0.7 ~ 2.0
3	HLR-03V	I	13.5	19.7	4.4	6.4	1.0	
4	HLR-04V	II	9.5	15.7	5.6	12.0	3.2	
8	HLR-08V	II	17.4	23.6	5.6	12.0	3.2	
12	HLR-12V	II	25.3	31.6	5.6	12.0	3.2	

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

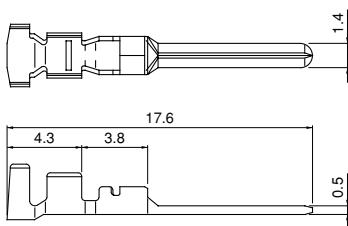
2. The strength of the panel must be considered when punching two or more holes.

3. The connector must be inserted from the same side as the hole is punched.

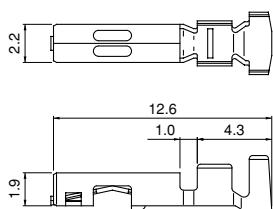
HL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SSM-21T-P1.4	SSF-21T-P1.4	0.3 ~ 0.75	22 ~ 18	1.5 ~ 2.2	6,000

Material and Finish

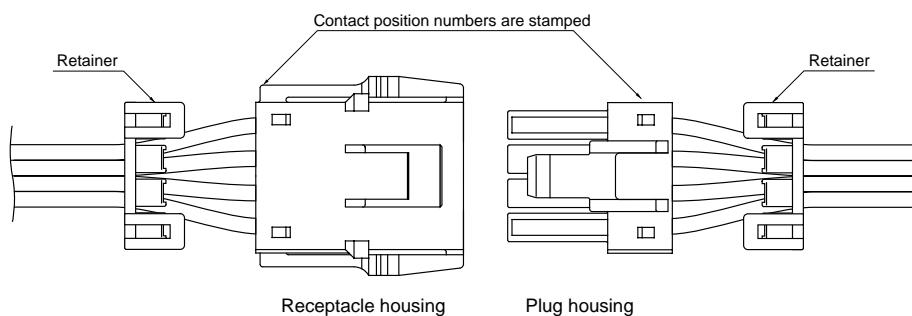
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

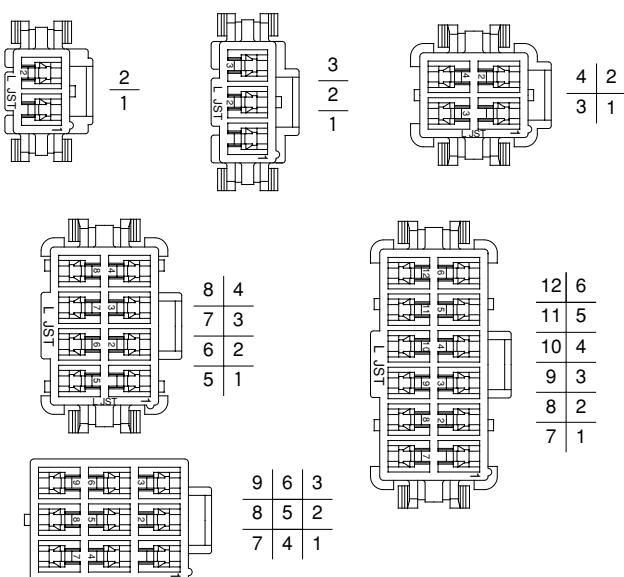
Note: Contact JST for special products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-21T-P1.4	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14	
SSF-21T-P1.4	AP-K2N	—	—	—

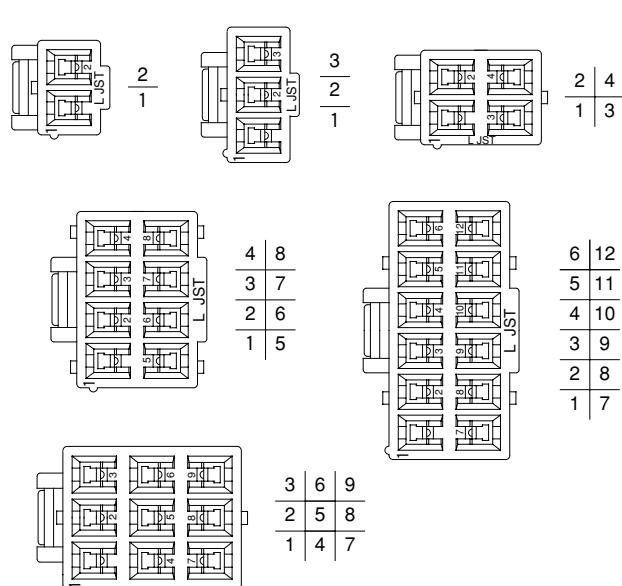
Contact position location numbers



Receptacle housing



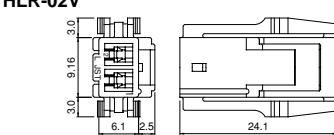
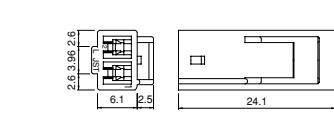
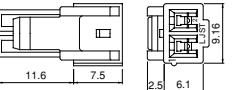
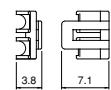
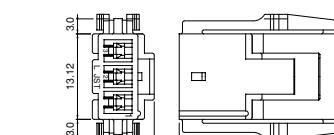
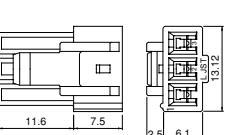
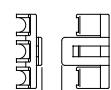
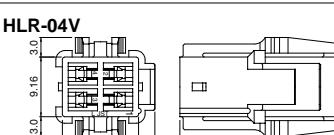
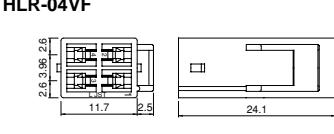
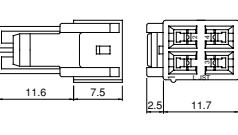
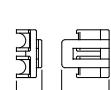
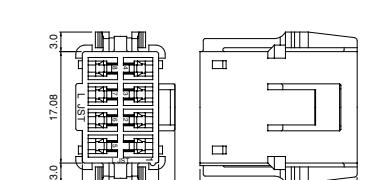
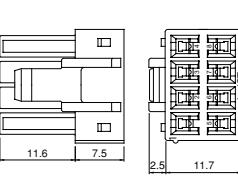
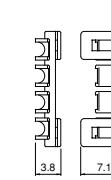
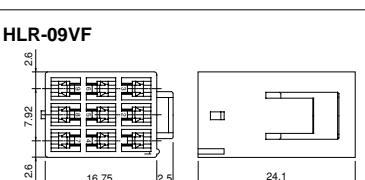
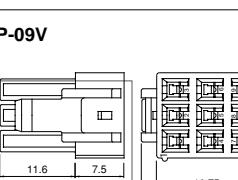
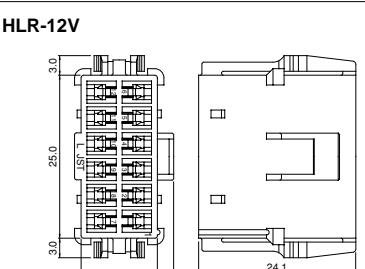
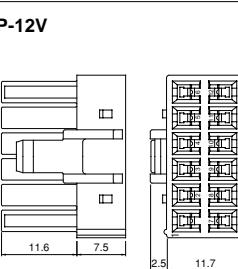
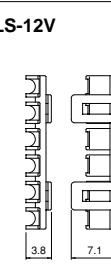
Plug housing



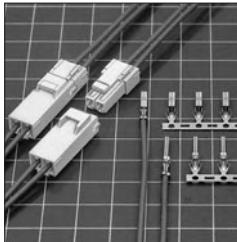
HL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

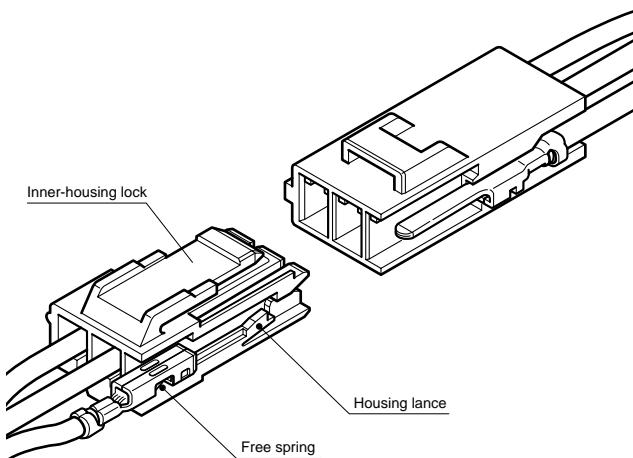
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer	
2	300V	7A	HLR-02V  HLR-02VF 	HLP-02V 	HLS-02V (commonly used for 2-circuit housing and 4-circuit housing) 	Q'ty / bag
						1,000
3	300V	6A	HLR-03V 	HLP-03V 	HLS-03V 	Q'ty / bag
						500
4	300V	6A	HLR-04V  HLR-04VF 	HLP-04V 	HLS-02V (commonly used for 2-circuit housing and 4-circuit housing) 	Q'ty / bag
						500
8	300V	4A	HLR-08V 	HLP-08V 	HLS-08V 	Q'ty / bag
						500
9	300V	4A	HLR-09VF 	HLP-09V 		Q'ty / bag
						500
12	300V	3A	HLR-12V 	HLP-12V 	HLS-12V 	Q'ty / bag
						500

RoHS compliance



SL CONNECTOR

3.96mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Specifications

- Current rating: 7A AC, DC max.
 - Voltage rating: 300V AC, DC max.
 - Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 1,500V AC/minute
 - Applicable wire: AWG #26 to #18
0.13 to 0.75mm²
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

Circuits	Wire size (AWG)				
	#18	#20	#22	#24	#26
1	7	5	4	3	2
2	7	5	4	3	2
3	6	4	4	3	2
4	6	4	4	3	2
6	6	4	4	3	2

Standards

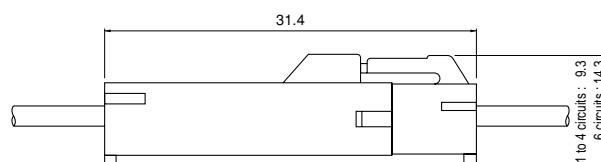
Recognized E60389

Certified LR20812

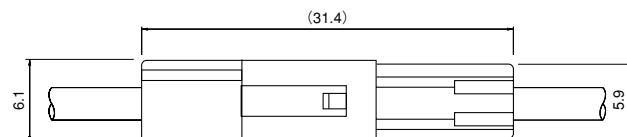
R9351104

- Low insertion force contact
- Housing lance
- Inner-housing lock

Assembly layout

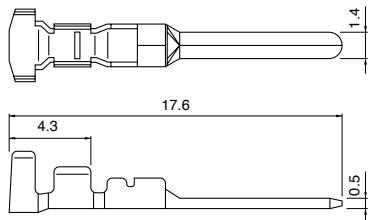


Both side lock product

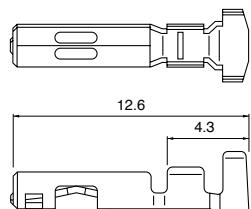


Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SSM-01T-P1.4	SSF-01T-P1.4	0.13 ~ 0.5	26 ~ 20	1.3 ~ 2.5	6,000
SSM-21T-P1.4	SSF-21T-P1.4	0.3 ~ 0.75	22 ~ 18	1.5 ~ 2.5	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

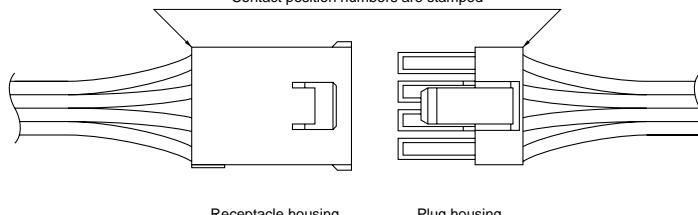
RoHS compliance

Note: Contact JST for special products.

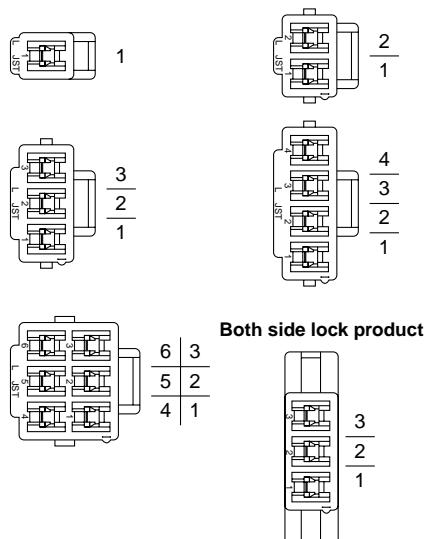
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01T-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
SSF-01T-P1.4		—	—	—
SSM-21T-P1.4		MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		—	—	—

Contact position location numbers

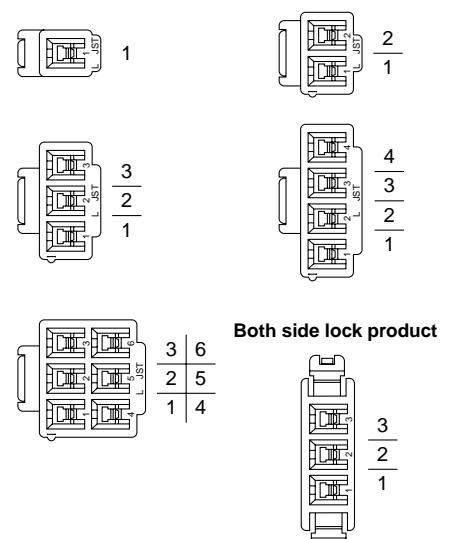
Contact position numbers are stamped



Receptacle housing



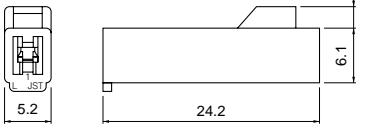
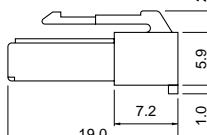
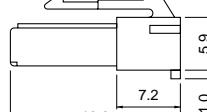
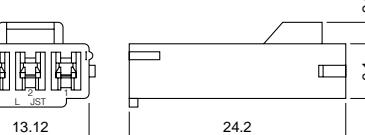
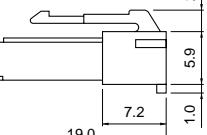
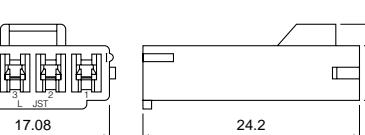
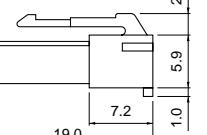
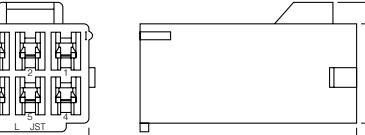
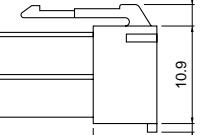
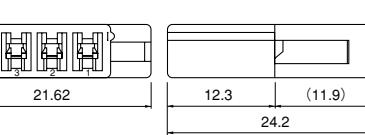
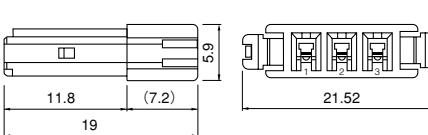
Plug housing



SL CONNECTOR

Housing

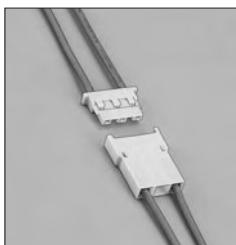
Material: PA 66, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)
1	300V	7A	SLR-01VF 	SLP-01V  Q'ty / bag: 1,000
2	300V	7A	SLR-02VF 	SLP-02V  Q'ty / bag: 500
3	300V	6A	SLR-03VF 	SLP-03V  Q'ty / bag: 500
4	300V	6A	SLR-04VF 	SLP-04V  Q'ty / bag: 500
6	300V	6A	SLR-06VF 	SLP-06V  Q'ty / bag: 500
3	300V	6A	Both side lock product *SLR-03VF-MD 	Both side lock product *SLP-03V-MD  Q'ty / bag: 500

RoHS compliance

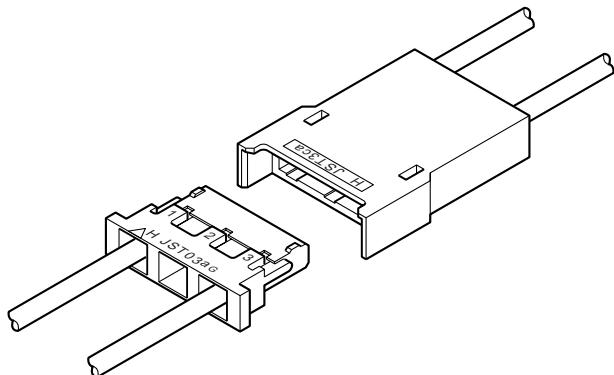
Note: 1. SLR-03VF-MD and SLP-03V-MD are not CSA/TÜV approved.

2. *Contact JST for special products.



BHM CONNECTOR

4.0/8.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Wire-to-wire version connectors, designed for liquid crystal display back light lamps.

- **Contact lances**
- **Box shaped housing**

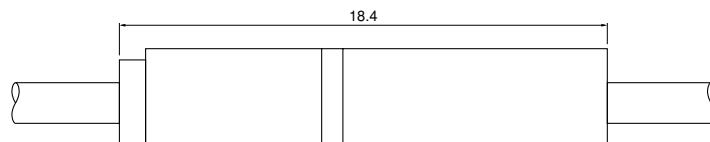
Assembly layout

Specifications

- Current rating: 1.0A AC, DC max.
 - Voltage rating: 600V AC, DC max.
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 1,800V AC/minute
 - Applicable wire: AWG #28 to #22
0.08 to 0.33mm²
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

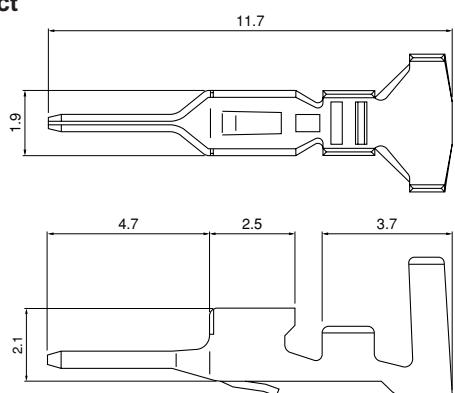
- Recognized E60389
 Certified LR20812



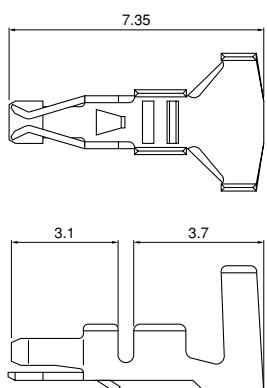
BHM CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SBHM-001T-P0.5	SBH-001T-P0.5	0.08 ~ 0.33	28 ~ 22	1.6 ~ 2.4	4,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

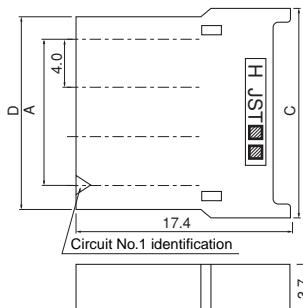
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHM-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05
SBH-001T-P0.5		MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

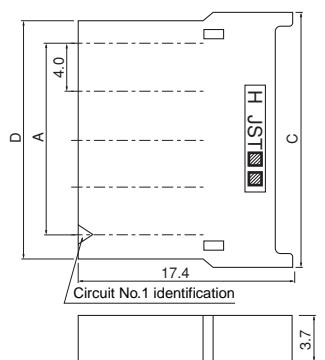
Note: *Strip-crimp applicator

Housing

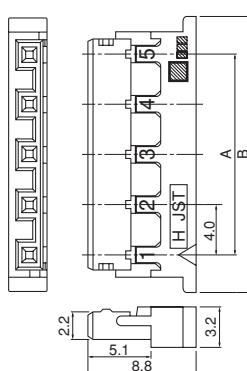
Receptacle housing (2 to 4 circuits)



(5 circuits)



Socket housing



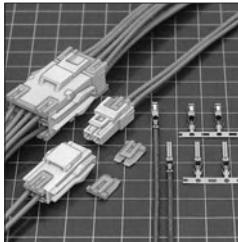
Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Receptacle housing	Socket housing	A	B	C	D	
2	BHMR-02V	BHR-02VS-1	4.0	9.8	9.1	7.8	1,000
3	BHMR-03V	BHR-03VS-1	8.0	13.8	13.1	11.8	1,000
4	BHMR-04V	BHR-04VS-1	12.0	17.8	17.1	15.8	1,000
5	BHMR-05V-R	BHR-05VS-1	16.0	21.8	21.1	19.8	1,000

Material

PA 66, UL94V-0, natural (white)

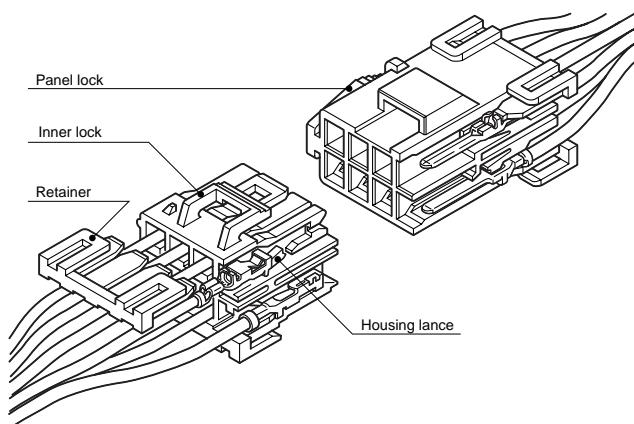
RoHS compliance

Note: BHMR-05V-R and BHR-05VS-1 have ribs against prying.



YL CONNECTOR

4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The retainer features added protection against non-insertion or disconnection.

- **Housing lance**
- **Secondary retainers**
- **Inner-housing lock**
- **Panel lock construction**

Standards

Recognized E60389

Certified LR20812

R9351052

Specifications

- Current rating: 10A AC, DC max. (7A when retainers are mounted)
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.0mm
- * RoHS compliant products are published.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105°C.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

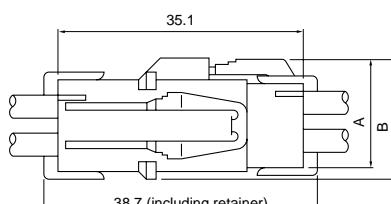
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

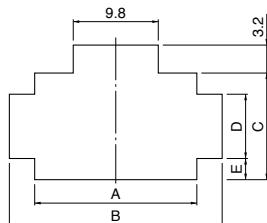
Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
1	10	7	5	4	3	2
2	10	7	5	4	3	2
3	9	6	4	4	3	2
4	9	6	4	4	3	2
6	8	5	3	3	2	2
8	7	4	3	3	2	2
9	6	4	3	3	2	2
12	6	3	2	2	2	2
15	5	3	2	2	2	1
16	5	3	2	2	2	1
21	5	3	2	2	2	1

Note: Secondary retainers cannot be used with AWG #16 wires.

Assembly layout and Panel Layout



Type	Circuits	Dimensions (mm)
		A B
Single row	2 · 3	9.5 10.8
2-row	4 · 6 · 8 · 12 · 16	15.3 16.6
3-row	9 · 12 · 15 · 21	20.5 21.8



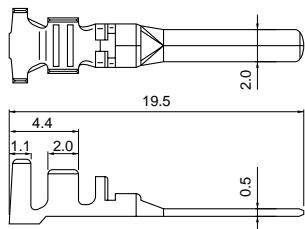
Circuits	Receptacle housing Model No.	Panel thickness (mm) Dimensions (mm)	0.7 to 2.0			0.7 to 0.8			0.9 to 1.3			1.4 to 2.0		
			A	B	C	D ^{±0.1}	E ^{±0.1}							
2	YLR-02V	10.7	16.8	7.1	4.4	1.35	5.0	1.05	5.6	0.75				
3	YLR-03V	15.3	21.3	7.1	4.4	1.35	5.0	1.05	5.6	0.75				
4	YLR-04V	10.7	16.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3				
6	YLR-06V	15.3	21.3	12.9	7.1	2.9	7.7	2.6	8.3	2.3				
8	YLR-08V	19.8	25.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3				
9	YLR-09V	15.3	21.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95				
12	YLR-12V	19.8	25.8	18.2	7.1	5.55	7.7	5.25	8.3	4.95				
	YLR-12VA	28.9	34.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3				
15	YLR-15V	24.4	30.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95				
16	YLR-16V	37.9	43.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3				
21	YLR-21V	33.5	39.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95				

- Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

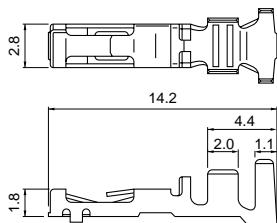
YL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
Pin contact	Socket contact	mm ²	AWG #		
SYM-01T-P0.5A	SYF-01T-P0.5A	0.13 ~ 0.5	26 ~ 20	1.3 ~ 2.5	4,000 (SYM-01T-P0.5A) 5,000
SYM-41T-P0.5A	SYF-41T-P0.5A	0.5 ~ 1.25	20 ~ 16	2.0 ~ 3.4	
		*0.3+0.3~ 0.5+0.5	*22+22~ 20+20	*1.5+1.5~ 2.0+2.0	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

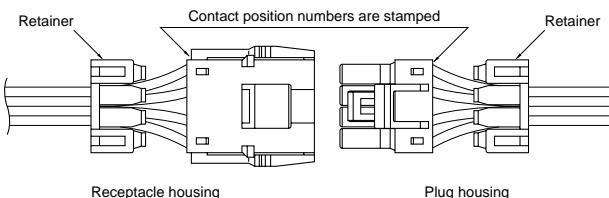
RoHS compliance

- Note: 1. Contact JST for special products.
2. Retainers cannot be used with electric wire whose insulation O.D. exceeds 2.7mm and AWG #16.
3. *Marked products are not TÜV approved.

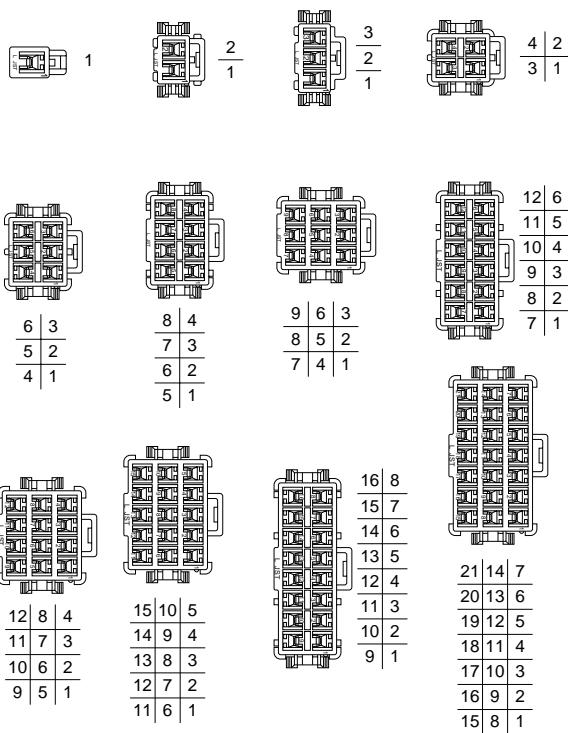
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
SYF-01T-P0.5A		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYM-41T-P0.5A		MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
SYF-41T-P0.5A		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05

Note: *Strip-crimp applicator

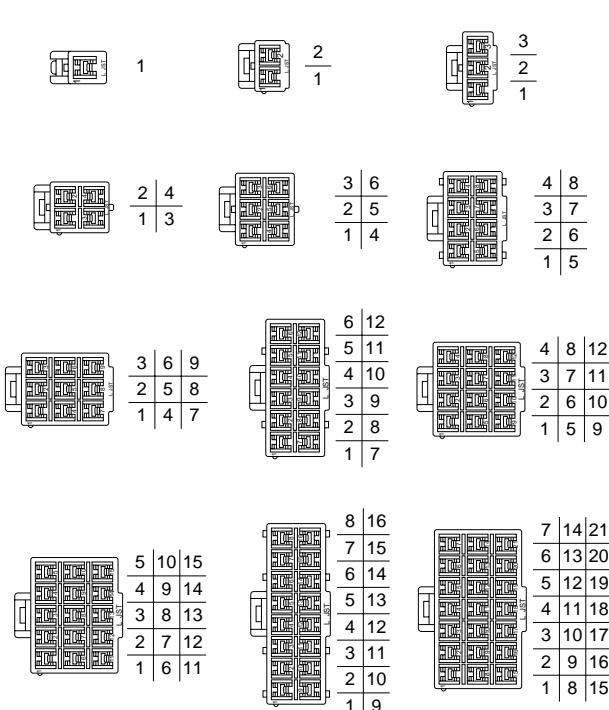
Contact position location numbers



Receptacle housing



Plug housing



Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
1	300V	7A (10A)	YLR-01VF 	Q'ty / bag 500	YLP-01V 	Q'ty / bag 500	YLS-01V 	Q'ty / bag 1,000
2	300V	7A (10A)	YLR-02V YLR-02VF 	Q'ty / bag 500	YLP-02V 	Q'ty / bag 500	YLS-02V 	Q'ty / bag 1,000
3	300V	6A (9A)	YLR-03V YLR-03VF 	Q'ty / bag 500	YLP-03V 	Q'ty / bag 500	YLS-03V (commonly used for 3-circuit housing and 6-circuit housing) 	Q'ty / bag 1,000

RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

YL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
4	300V	6A (9A)	YLR-04V YLR-04VF 	YLP-04V Q'ty / bag: 500	YLS-02V Q'ty / bag: 1,000
6	300V	5A (8A)	YLR-06V YLR-06VF 	YLP-06V Q'ty / bag: 500	YLS-03V (commonly used for 3-circuit housing and 6-circuit housing) Q'ty / bag: 1,000
8	300V	4A (7A)	YLR-08V YLR-08VF 	YLP-08V Q'ty / bag: 250	YLS-08V Q'ty / bag: 1,000
9	300V	4A (6A)	YLR-09V 	YLP-09V Q'ty / bag: 250	 Q'ty / bag: 500

RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag	Retainer	Q'ty / bag
12	300V	3A (6A)	YLR-12VA 	200	YLP-12VA 	200	YLS-12V 	1,000
			YLR-12V 		YLP-12V 		YLS-12V 	
15	300V	3A (5A)	YLR-15V 	200	YLP-15V 	200	YLS-15V 	—
16	300V	3A (5A)	YLR-16V 	100	YLP-16V 	200	YLS-16V 	1,000

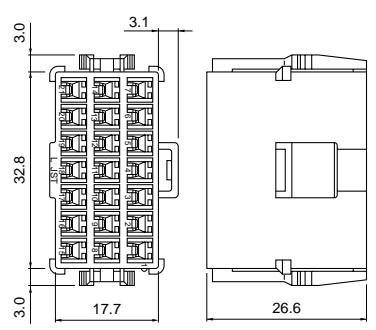
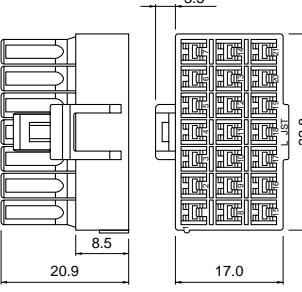
RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

YL CONNECTOR

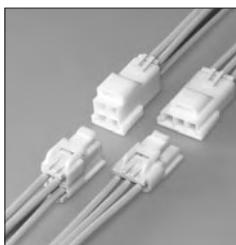
Housing

Material: Housing...PA 66, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag	Retainer	Q'ty / bag
21	300V	3A (5A)	YLR-21V 	100	YLP-21V 	200	—	—

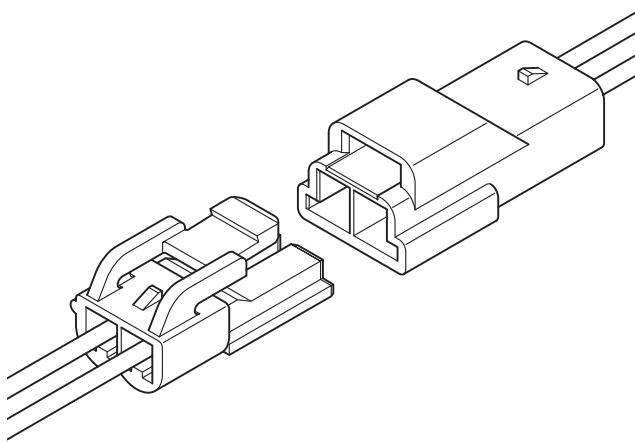
RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)



YLN CONNECTOR

4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors

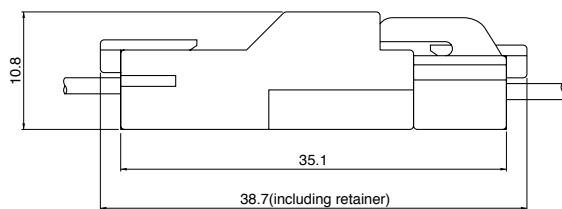


The YLN connector adds variations in shape to the existing color variations of the YL connector in order to improve identification of connectors. Moreover, this connector has a mechanism to prevent incomplete mating by utilizing the inertial force generated when the plug and receptacle are mated and therefore, ensures complete mating.

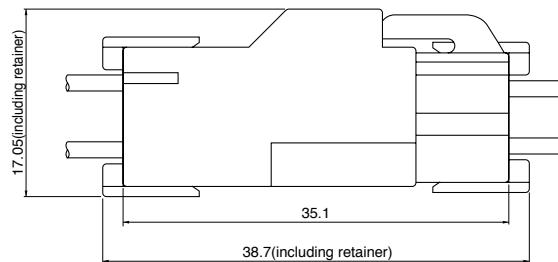
- Design to prevent incidental mating with the YL connector
- Inertial force mechanism
- Interchangeability
- Finger friendly design

Assembly layout

(2, 3 circuits)



(4, 6 circuits)



Specifications

- Current rating: 10A max. AC, DC
(7A when retainers are mounted)
- Voltage rating: 300V max. AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit : A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	7	5	4	3	2
3	9	6	4	4	3	2
4	9	6	4	4	3	2
6	8	5	3	3	2	2

Note: Secondary retainers cannot be used with AWG #16 wires.

Standards

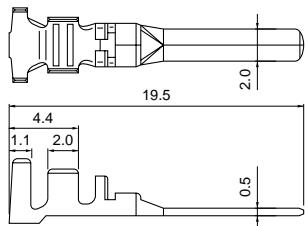
■ Recognized E60389

■ Certified LR20812

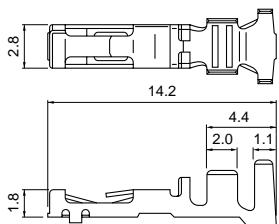
YLN CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SYM-01T-P0.5A	SYF-01T-P0.5A	0.13 ~ 0.5	26 ~ 20	1.3 ~ 2.5	4,000 (SYM-01T-P0.5A) 5,000
SYM-41T-P0.5A	SYF-41T-P0.5A	0.5 ~ 1.25	20 ~ 16	2.0 ~ 3.4	
		0.3+0.3 ~ 0.5+0.5	22+22 ~ 20+20	1.5+1.5 ~ 2.0+2.0	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for special products.
2. Retainers cannot be used with electric wire whose insulation O.D. exceeds 2.7mm and AWG #16.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYM-41T-P0.5A		MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05

Note: *Strip-crimp applicator

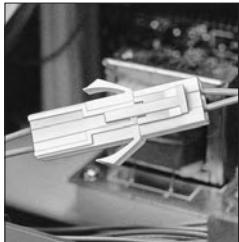
Housing

Material: Housing...PA 66, UL94V-0, natural (white)
Retainer...Glass-filled PA 66, UL94V-0, natural (ivory)

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
2	300V	7A (10A)	YLNR-02VF 	Q'ty/ bag 250	YLNP-02V 	Q'ty/ bag 500	YLS-02V (Used with both housings with 2 and 4 circuits) 	Q'ty/ bag 1,000
3	300V	6A (9A)	YLNR-03VF 	Q'ty/ bag 250	YLNP-03V 	Q'ty/ bag 500	YLS-03V (Used with both housings with 3 and 6 circuits) 	Q'ty/ bag 1,000
4	300V	6A (9A)	YLNR-04VF 	Q'ty/ bag 250	YLNP-04V 	Q'ty/ bag 250	YLS-02V (Used with both housings with 2 and 4 circuits) 	Q'ty/ bag 1,000
6	300V	5A (8A)	YLNR-06VF 	Q'ty/ bag 200	YLNP-06V 	Q'ty/ bag 200	YLS-03V (Used with both housings with 3 and 6 circuits) 	Q'ty/ bag 1,000

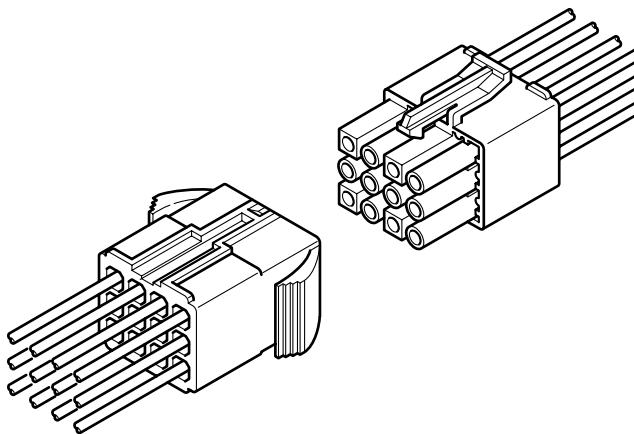
RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)



EL CONNECTOR

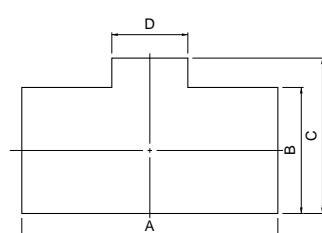
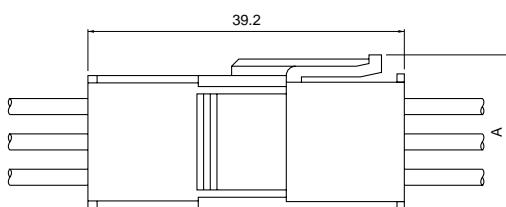
4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The contacts for the compact EL connector can be easily inserted into the connector housings. The plug housing and the receptacle housing can be smoothly mated even if they are mechanically distorted.

- Easy insertion and secure installation of contacts
- A smooth connection even when pried during mating
- Durable arm lock mechanism
- Two contact styles
- Interchangeability with ML connector

Assembly layout and Panel layout



Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.8 to 2.0mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit : A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	4	3
3	10	6	5	4	4	3
4	10	6	5	4	4	3
6	8	5	4	3	3	3
9	6	4	3	3	2	2
12	6	4	3	3	2	2
15	6	4	3	3	2	2

Standards

■ Recognized E60389

■ Certified LR20812

△ R75052

Circuits	Dimensions A (mm)
2 ~ 4 (Single-line arrangement)	10.4
4 (Double-line arrangement)	15.0
6	14.9
9 ~ 15	19.4

Circuits	Receptacle housing Model No.	Panel hole dimensions (mm) General tolerance ±0.13				Applicable panel thickness (mm)
		A	B	C	D	
2	ELR-02V	15.0	6.0	6.85	5.2	0.8~2.0
3	ELR-03V	19.7	6.0	6.85	5.2	
4	ELR-04V	24.2	6.0	6.85	5.2	
	ELR-04NV	15.6	10.6	11.6	5.2	
6	ELR-06V	19.7	10.2	11.1	5.2	
9	ELR-09V	19.7	14.8	15.7	5.2	
12	ELR-12V	24.2	14.8	15.7	5.2	
15	ELR-15V	28.7	14.8	15.7	5.2	

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

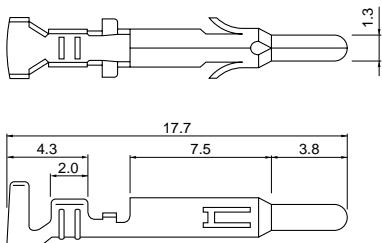
2. The strength of the panel must be considered when punching two or more holes.

3. The connector must be inserted from the same side as the hole is punched.

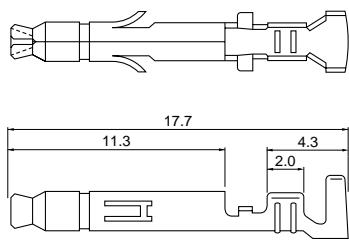
EL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/reel
Pin contact	Socket contact	mm ²	AWG #		
SLM-01T-P1.3E	SLF-01T-P1.3E	0.13 ~ 0.5	26 ~ 20	1.3 ~ 2.7	6,000
SLM-41T-P1.3E	SLF-41T-P1.3E	0.5 ~ 1.25	20 ~ 16	1.9 ~ 3.4	4,000
*SLM-42T-P1.3E	*SLF-42T-P1.3E	0.3+0.3 ~ 0.5+0.5	22+22 ~ 20+20	1.7+1.7 ~ 2.0+2.0	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

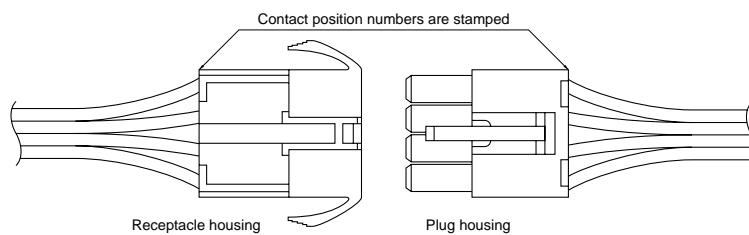
RoHS compliance

- Note: 1. Contact denoted by * is used for two wires.
2. Contact JST for special products.
3. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SLM-01T-P1.3E	AP-K2N	MKS-L	MK/SLF/M-01-13E	APLMK SLF/M01-13E
SLF-01T-P1.3E		*MKS-SC	SC/SLF/M-01-13E	APLSC SLF/M01-13E
SLM-42T-P1.3E		MKS-L	MK/SLF/M-42-13E	APLMK SLF/M42-13E
SLF-42T-P1.3E		—	—	—
SLM-41T-P1.3E		MKS-L	MK/SLF/M-41-13E	APLMK SLF/M41-13E
SLF-41T-P1.3E		*MKS-SC	SC/SLF/M-41-13E	APLSC SLF/M41-13E

Note: *Strip-crimp applicator

Contact position location numbers



Receptacle housing

2 1	3 2 1	4 3 2 1
6 3	9 6 3	12 8 4
5 2	8 5 2	11 7 3
4 1	7 4 1	10 6 2
		9 5 1
		13 8 3
		14 9 4
		12 7 2
		11 6 1

Plug housing

2 1	3 2 1	4 3 2 1
3 6	3 6 9	4 8 12
2 5	2 5 8	3 7 11
1 4	1 4 7	2 6 10
		1 5 9
		2 7 12
		1 6 11

EL CONNECTOR

Housing

Material: PA 6, UL94V-0, white

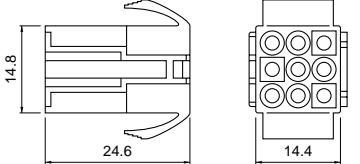
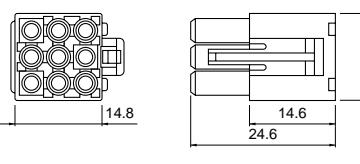
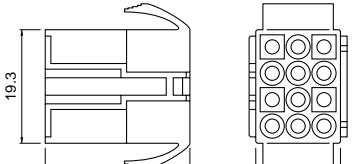
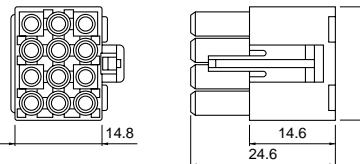
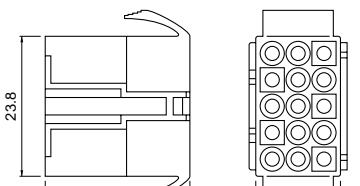
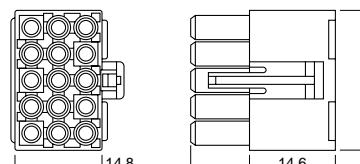
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)			Plug housing(for socket contact)			
			ELR-02V	Q'ty/bag	500	ELP-02V	Q'ty/bag	500	
2	300V	10A	ELR-02V	10.3	24.6	5.6	5.8	14.6	24.6
			ELR-02VF	10.3	24.6	5.8	5.8	14.6	24.6
3	300V	10A	ELR-03V	Q'ty/bag	500	ELP-03V	Q'ty/bag	500	
4	300V	10A	ELR-04V	Q'ty/bag	500	ELP-04V	Q'ty/bag	500	
			ELR-04NV	10.3	24.6	5.6	5.8	14.6	24.6
6	300V	8A	ELR-06V	Q'ty/bag	500	ELP-06V	Q'ty/bag	500	

RoHS compliance

EL CONNECTOR

Housing

Material: PA 6, UL94V-0, white

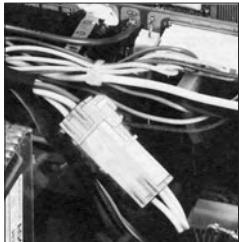
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/bag	Plug housing(for socket contact)	Q'ty/bag
9	300V	6A	ELR-09V 	500	ELP-09V 	500
12	300V	6A	ELR-12V 	500	ELP-12V 	500
15	300V	6A	ELR-15V 	500	ELP-15V 	500

RoHS compliance

Note: 1. ELR-02VF and ELR-04N VF are exclusively for free hanging. The other circuits can be used either for panel mounted or free hanging.

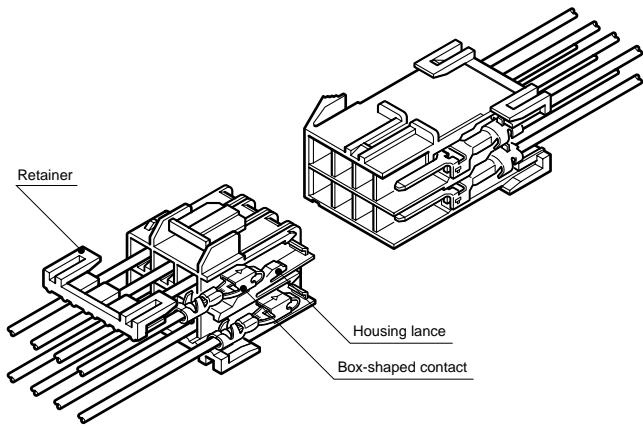
The panel hole dimensions are given on the next page.

2. Contact JST for special products.



ZL CONNECTOR

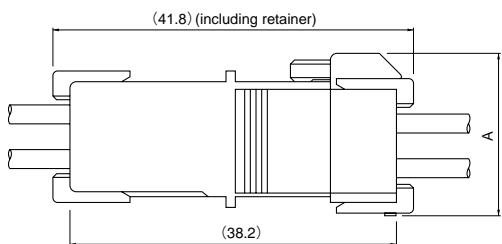
5.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



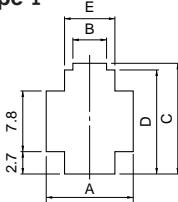
ZL connectors are reliable, smoothly mating wire-to-wire connectors.

- **Housing lances**
- **Retainer**
- **Box-shaped contacts**
- **Mountable on a variety of panels**

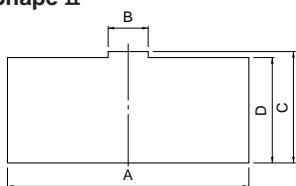
Assembly layout and Panel layout



Shape I



Shape II



Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.4mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector.
The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	2
4	9	5	4	3	3	2
6	8	4	3	3	2	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Standards

■ Recognized E60389

■ Certified LR20812

Circuits	Dimensions A (mm)				
	2 · 4	18.2			
6 · 8 · 12 · 16	17.5				

Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm) General tolerance ±0.13					Applicable panel thickness (mm)
			A	B	C	D	E	
2	ZLR-02V	I	11.5	4.4	13.95	13.2	6.5	0.7 ~ 2.4
4	ZLR-04V	I	16.5	5.2	13.95	13.2	11.6	
6	ZLR-06V	II	21.5	5.2	13.95	13.2	—	
8	ZLR-08V	II	26.5	5.2	13.95	13.2	—	
12	ZLR-12V	II	36.5	5.2	13.95	13.2	—	
16	ZLR-16V	II	46.5	5.2	13.95	13.2	—	

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

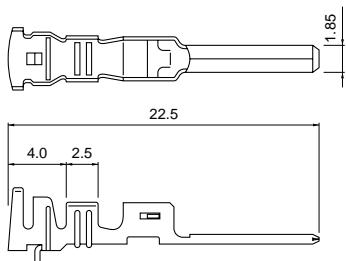
2. The strength of the panel must be considered when punching two or more holes.

3. The connector must be inserted from the same side as the hole is punched.

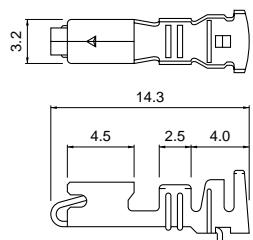
ZL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
Pin contact	Socket contact	mm ²	AWG #		
SZM-01T-P0.7	SZF-01T-P0.7	0.13 ~ 0.5	26 ~ 20	1.3 ~ 2.7	3,000
SZM-41T-P0.7	SZF-41T-P0.7	0.75 ~ 1.25	18 ~ 16	1.9 ~ 3.1	
		0.3+0.3 ~ 0.5+0.5	22+22 ~ 20+20	1.7+1.7 ~ 2.0+2.0	

Material and Finish

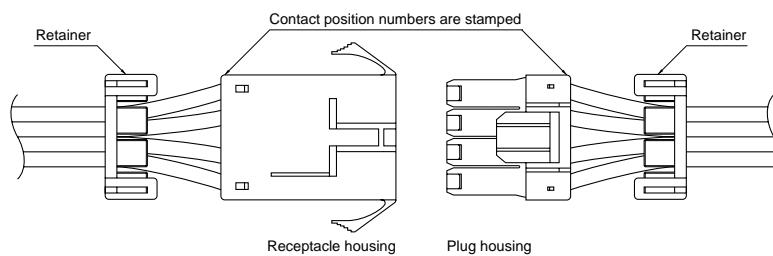
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

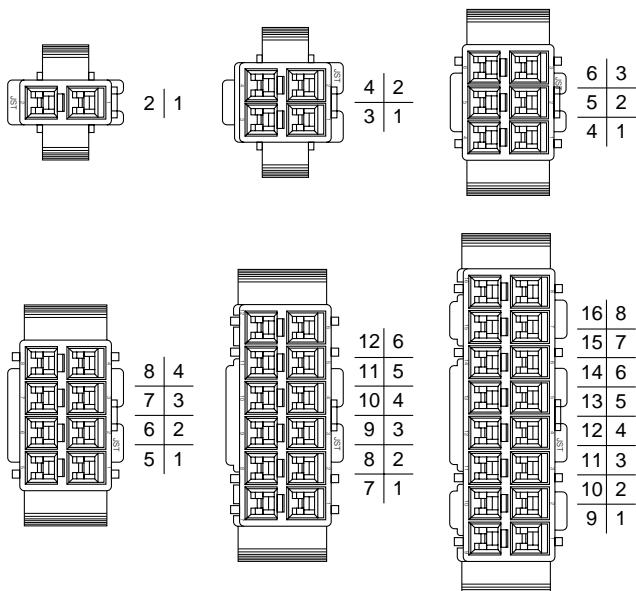
Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZM-01T-P0.7	AP-K2N	MKS-L	MK/SZF/M-01-07	APLMK SZF/M01-07
SZF-01T-P0.7		—	—	—
SZM-41T-P0.7		MKS-L	MK/SZF/M-41-07	APLMK SZF/M41-07
SZF-41T-P0.7		—	—	—

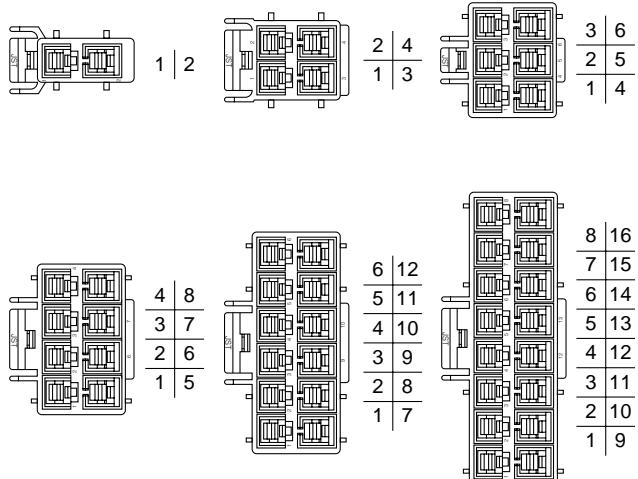
Contact position location numbers



Receptacle housing



Plug housing



Contact

Material: Housing...PA 6, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/bag	Plug housing(for socket contact)	Q'ty/bag	Retainer	Q'ty/bag
2	300V	10A	ZLR-02V 	500	ZLP-02V 	500	ZLS-02V (Used with both housings with 2 and 4 circuits) 	1,000
4	300V	9A	ZLR-04V 	500	ZLP-04V 	500	ZLS-03V 	1,000
6	300V	8A	ZLR-06V 	500	ZLP-06V 	500	ZLS-08V 	1,000
8	300V	6A	ZLR-08V 	500	ZLP-08V 	500	ZLS-08V 	1,000

RoHS compliance

ZL CONNECTOR

Contact

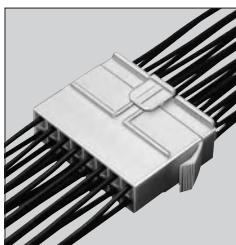
Material: Housing...PA 6, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
			ZLR-12V	ZLP-12V	ZLS-12V
12	300V	6A			
			Q'ty/bag	Q'ty/bag	Q'ty/bag
			200	200	1,000

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
			ZLR-16V	ZLP-16V	ZLS-16V
16	300V	5A			
			Q'ty/bag	Q'ty/bag	Q'ty/bag
			200	200	1,000

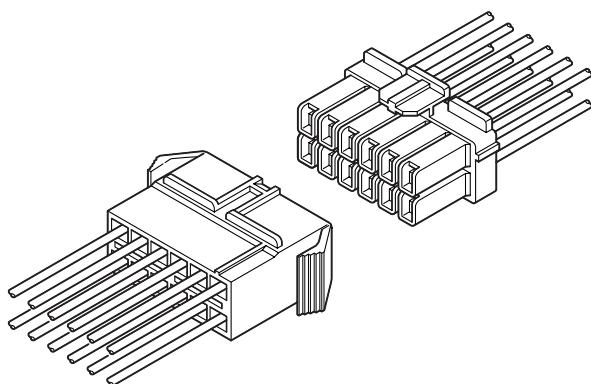
RoHS compliance

Note: 1. ZL connectors with any number of circuits can be used either panel mounted or free hanging. The panel hole dimensions are given on the next page.
2. Contact JST for special products.



XL CONNECTOR

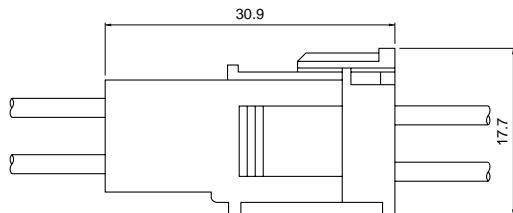
5.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



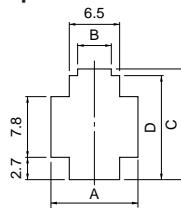
XL connectors are reliable wire-to-wire connectors, used for such electrical and electronic equipment as home appliances, vending machines, and office machines.

- Reliable housing construction
- Easy contact insertion
- Box-shaped contact
- Two kinds of connections

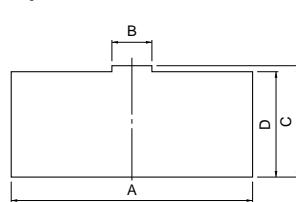
Assembly layout and Panel layout



Shape I



Shape II



Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.4mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector.

The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	3
4	9	5	4	3	3	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Standards

■ Recognized E60389

■ Certified LR20812

△ R75052

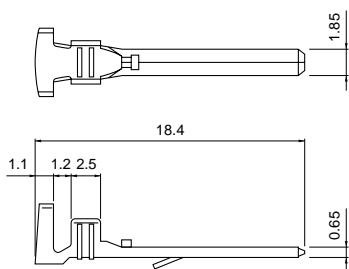
- Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm) General tolerance ±0.13				Applicable panel thickness (mm)
			A	B	C	D	
2	XLR-02V	I	11.5	4.4	13.95	13.2	0.7 ~ 2.4
4	XLR-04V	II	16.5	5.2	13.95	13.2	
8	XLR-08V	II	26.5	5.2	13.95	13.2	
12	XLR-12V	II	36.5	5.2	13.95	13.2	
16	XLR-16V	II	46.5	5.2	13.95	13.2	

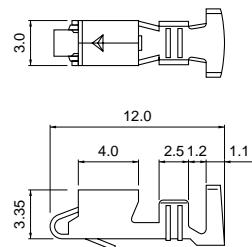
XL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SYM-01T-P0.7	SXF-01T-P0.7	0.13 ~ 0.5	26 ~ 20	1.3 ~ 2.7	Pin contact SYM-01T-P0.7 : 6,000
		0.5 ~ 1.25	20 ~ 16	1.9 ~ 3.1	SYM-41T-P0.7 : 4,000
SYM-41T-P0.7	SXF-41T-P0.7	0.3+0.3 ~ 0.5+0.5	22+22 ~ 20+20	1.7+1.7 ~ 2.0+2.0	Socket contact: : 3,000

Material and Finish

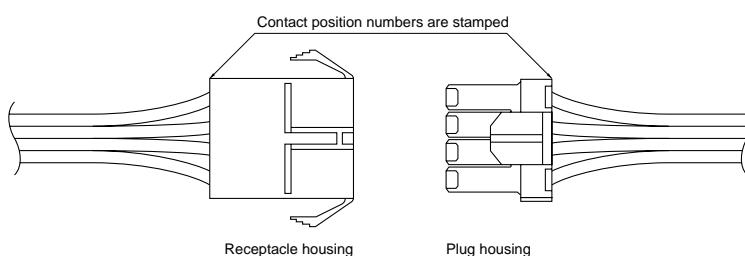
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

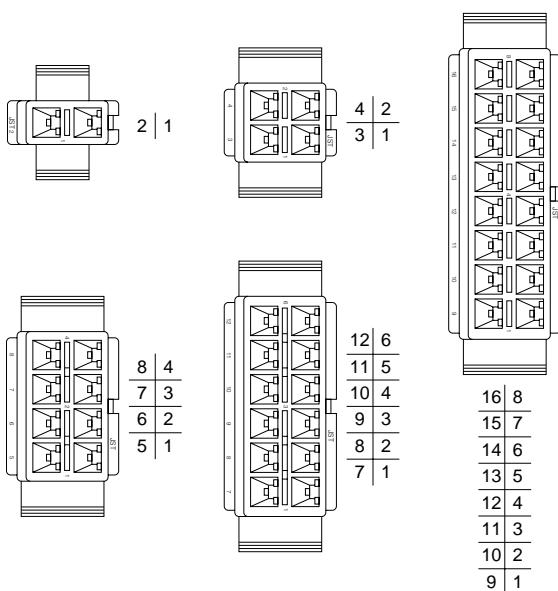
Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.7	AP-K2N	MKS-L	MK/SYM-01-07	APLMK SYM01-07
		—	—	—
SXF-01T-P0.7	AP-K2N	MKS-L	MK/SXF-01-07	APLMK SXF01-07
		—	—	—
SYM-41T-P0.7	AP-K2N	MKS-L	MK/SYM-41-07	APLMK SYM41-07
		—	—	—
SXF-41T-P0.7	AP-K2N	MKS-L	MK/SXF-41-07	APLMK SXF41-07
		—	—	—

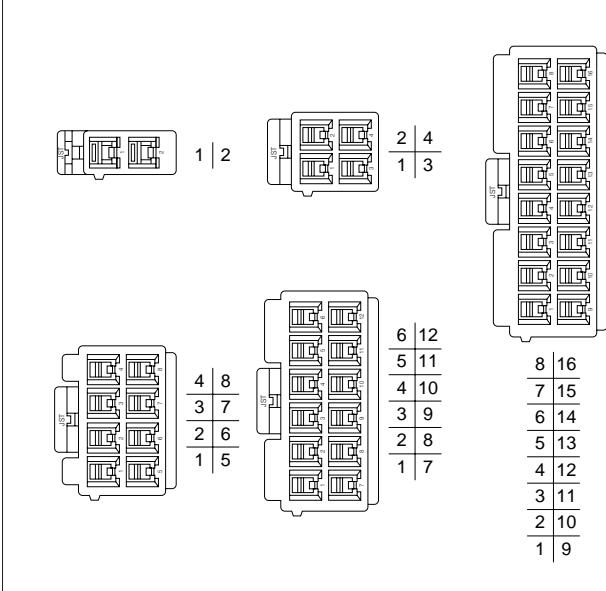
Contact position location numbers



Receptacle housing



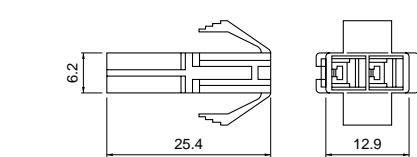
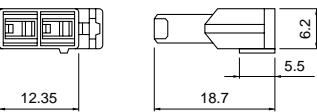
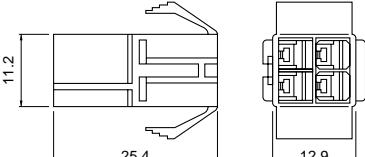
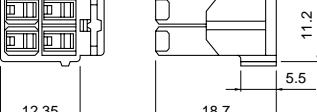
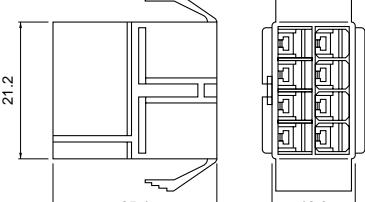
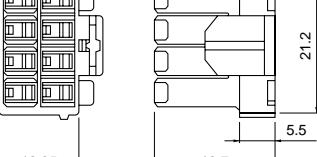
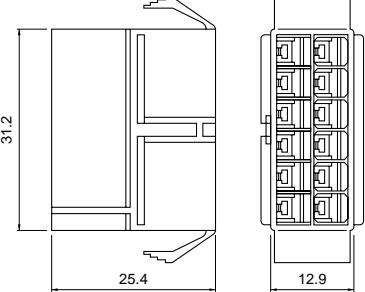
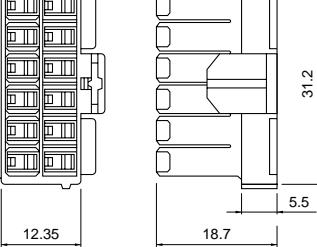
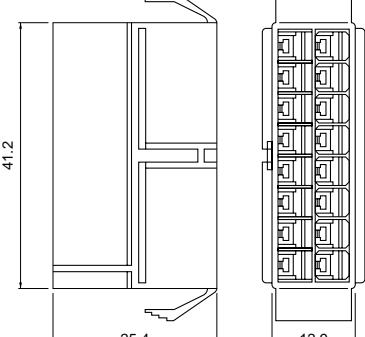
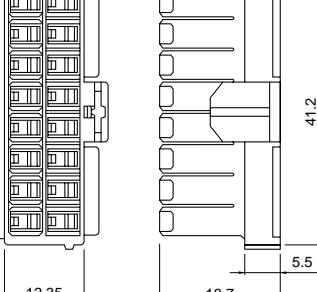
Plug housing



XL CONNECTOR

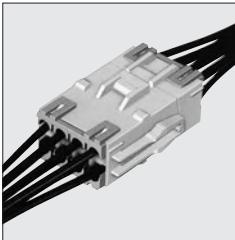
Housing

Material: PA 66, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	
2	300V	10A	XLR-02V 	XLP-02V 	Q'ty/bag 500 500
4	300V	9A	XLR-04V 	XLP-04V 	Q'ty/bag 500 500
8	300V	6A	XLR-08V 	XLP-08V 	Q'ty/bag 500 500
12	300V	6A	XLR-12V 	XLP-12V 	Q'ty/bag 200 200
16	300V	5A	XLR-16V 	XLP-16V 	Q'ty/bag 100 200

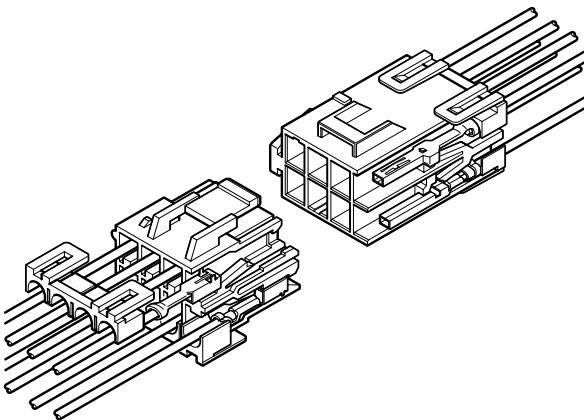
RoHS compliance

Note: 1. XL connectors with any number of circuits can be used either panel mounted or free hanging. The panel hole dimensions are given on the next page.
 2. Contact JST for special products.



VL CONNECTOR

6.2mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The VL connector is a 6.2mm pitch wire-to-wire connector designed for circuits requiring up to 20A (1 or 2-circuit with AWG #12 wire).

- Housing lances for contact retention
- Secondary retainer
- Suited for circuits with high power requirements
- Panel lock construction

Standards

- Recognized E60389
 ■ Certified LR20812
 △ R9351103

Specifications

- Current rating: 20A AC, DC max.
- Voltage rating: 600V AC, DC max.(300V in accordance with the Electrical Appliance and Material Safety Law in Japan)
- Temperature range: -25°C to +90°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 2,000V AC/minute
- Applicable wire: AWG #22 to #12
0.3 to 3.5mm²
- Applicable panel thickness: 0.5 to 2.0mm
- * RoHS compliant products are published.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105°C.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

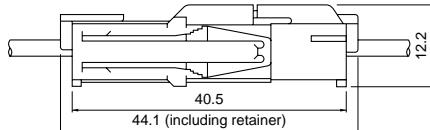
Current unit: A

Circuits	Wire size (AWG)					
	#12	#14	#16	#18	#20	#22
1	20	15	10	8	6	4
2	20	15	10	8	6	4
3	19	14	9	8	6	4
4	18	13	9	7	6	4
6	16	12	8	7	5	3
8	16	11	7	6	5	3
12	15	10	7	6	4	3

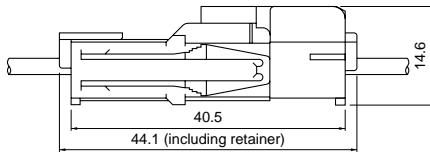
Assembly layout and Panel layout

(2, 3 and single-row 4 circuits)

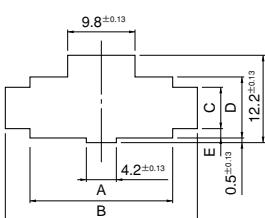
<Inner-housing lock>



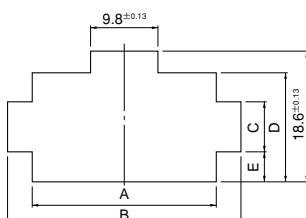
<Outer-housing lock>



Shape I

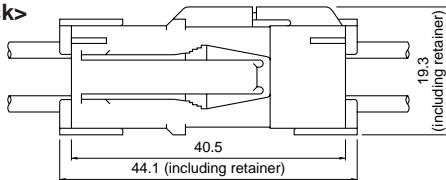


Shape II



(4, 6, 8 and 12 circuits)

<Inner-housing lock>



<Outer-housing lock>



Circuits	Receptacle housing Model No.	Panel hole shape	Panel hole dimensions (mm)					Applicable panel thickness (mm)
			A	B	C	D	E	
2	VLR-02V	I	13.8	20.6	5.7	8.5	1.4	0.5 ~ 2.0
3	VLR-03V	I	20.0	26.8	5.7	8.5	1.4	
4	VLR-04V	II	13.8	20.6	7.0	15.4	4.2	
(Single-row) 4	VLR-04VN	I	26.2	33.0	5.7	8.5	1.4	
6	VLR-06V	II	20.0	26.8	7.0	15.4	4.2	
8	VLR-08V	II	26.2	33.0	7.0	15.4	4.2	
12	VLR-12V	II	38.9	45.4	7.0	15.4	4.2	

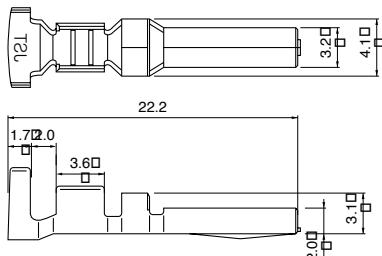
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

2. The strength of the panel must be considered when punching two or more holes.

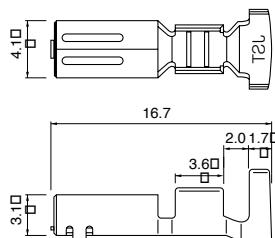
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
*SVM-42T-P2.0	*SVF-42T-P2.0	0.3 ~ 1.25	22 ~ 16	1.7 ~ 3.2	2,000
		0.3+0.3 ~ 0.5+0.75	22+22 ~ 20+18	1.7+1.7 ~ 2.5+2.7	
SVM-61T-P2.0	SVF-61T-P2.0	0.5 ~ 2.0	20 ~ 14	1.9 ~ 3.4	2,000
		0.5+0.5 ~ 0.75+1.25	20+20 ~ 18+16	1.9+1.9 ~ 2.1+2.7	
SVM-81T-P2.0	SVF-81T-P2.0	3.5	12	4.1	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

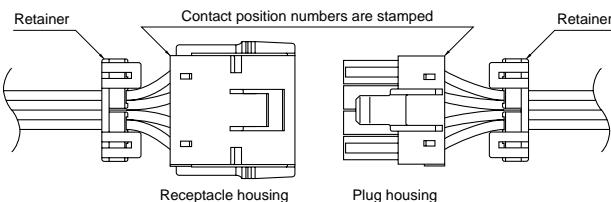
RoHS compliance

Note: 1. Contact JST for special products.

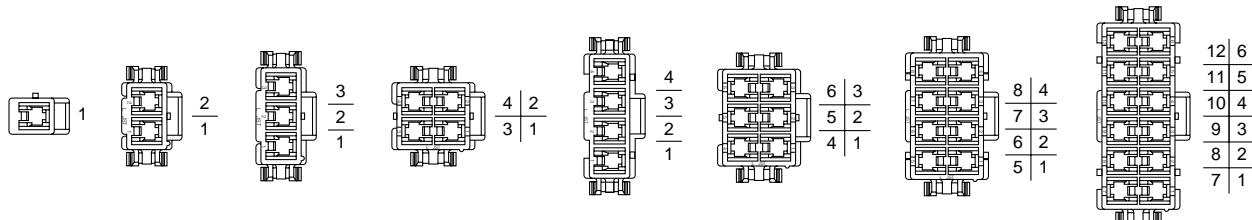
2. *Marked products are not TUV approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVM-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20
SVF-42T-P2.0		—	—	—
SVM-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20
SVF-61T-P2.0		—	—	—
SVM-81T-P2.0		MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20
SVF-81T-P2.0		—	—	—

Contact position location numbers



Receptacle housing



Plug housing

<Inner-housing lock>				<Outer-housing lock>			
1	2 1	3 2	4 3 2 1	2 1	3 2 1	4 3 2 1	5 4 3 2 1
3 6	2 5	1 4	4 8	3 7	4 10	3 9	6 12
5 11	4 10	3 9	2 6	1 5	2 8	1 7	5 11
6 12	5 11	4 10	3 9	2 6	1 5	1 7	4 10

VL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

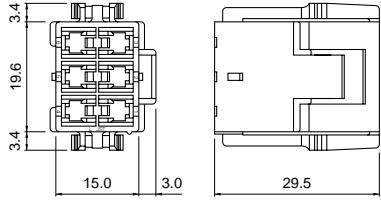
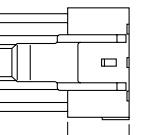
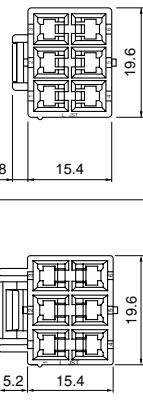
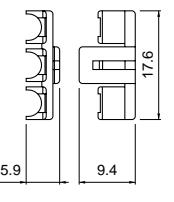
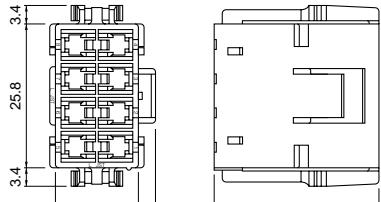
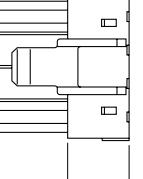
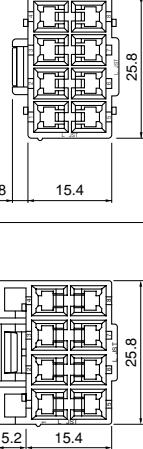
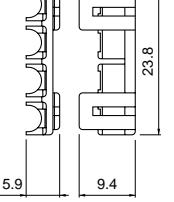
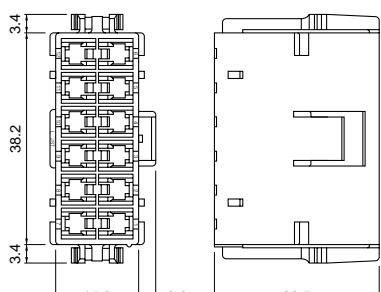
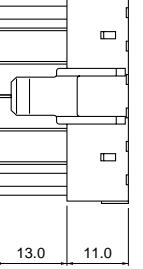
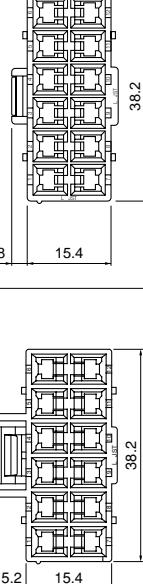
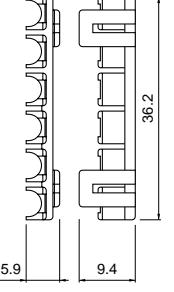
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
1	600V	20A	VLR-01VF 	VLP-01V 	VLS-01V
2	600V	20A	VLR-02V 	VLP-02V 	VLS-02V (commonly used for 2-circuit housing and 4-circuit housing)
3	600V	19A	VLR-03V 	VLP-03V 	VLS-03V (commonly used for 3-circuit housing and 6-circuit housing)
4	600V	18A	VLR-04V 	VLP-04V 	VLS-02V
			VLR-04VN 	VLP-04VN-1 	VLS-08V (commonly used for 4-circuit housing and 8-circuit housing)

RoHS compliance

Note: 1. VLR-01VF is exclusively for free hanging. The other circuits can be used either for panel mounted or free hanging.
2. Contact JST for special products.

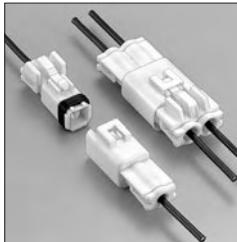
Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/bag	Plug housing(for socket contact)	Q'ty/bag	Retainer	Q'ty/bag
6	600V	16A	VLR-06V 	500	VLP-06V  VLP-06V-1 	500	VLS-03V (commonly used for 3-circuit housing and 6-circuit housing) 	1,000
8	600V	16A	VLR-08V 	100	VLP-08V  VLP-08V-1 	200	VLS-08V (commonly used for 4-circuit housing and 8-circuit housing) 	1,000
12	600V	15A	VLR-12V 	100	VLP-12V  VLP-12V-1 	100	VLS-12V 	1,000

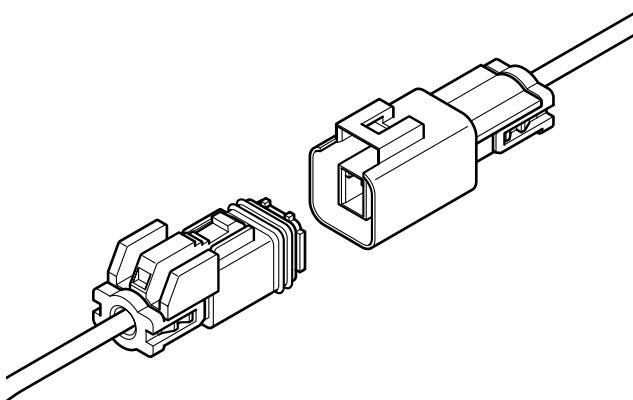
RoHS compliance

Note: Contact JST for special products.



MWP CONNECTOR

7.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Waterproof wire-to-wire connector for electric power supply.

- **Low insertion force contact**
- **Housing lance**
- **Inner-housing lock**
- **Slider locking mechanism**
- **Interchangeability**

Specifications

- Current rating: 7A AC, DC max.
 - Voltage rating: 300V AC, DC max.
 - Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/7mΩ max.
After environmental testing/10mΩ max.
 - Insulation resistance: 1,000MΩ min.
 - Withstanding voltage: 1,500V AC/minute
 - Applicable wire: AWG #26 to #18
0.13 to 0.75mm²
Insulation O.D./2.1 to 2.5mm
 - Waterproof grade: Grade 4 ingress protection of JIS C 0920(IEC 60529 IPX4)
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using
Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

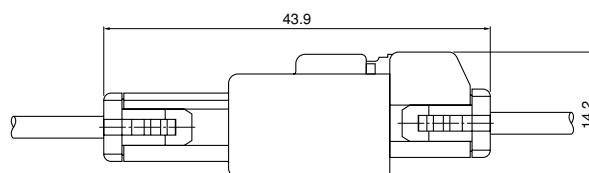
Note: The current rating varies depending on the number of circuits and the wire size used in each connector.

The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

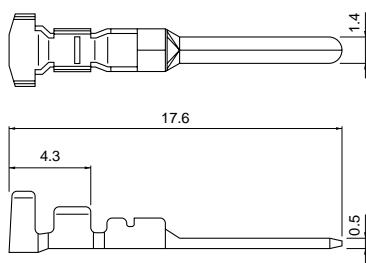
Circuits	Wire size (AWG)				
	#18	#20	#22	#24	#26
1	7	5	4	3	2
2	7	5	4	3	2

Assembly layout

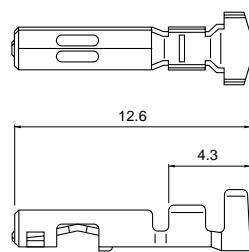


Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
Pin contact	Socket contact	mm ²	AWG #		
SSM-01T-P1.4	SSF-01T-P1.4	0.13 ~ 0.5	26 ~ 20	2.1 ~ 2.5	6,000
SSM-21T-P1.4	SSF-21T-P1.4	0.3 ~ 0.75	22 ~ 18		

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for special products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01T-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
SSF-01T-P1.4		—	—	—
SSM-21T-P1.4		MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		—	—	—

Housing

Material: PBT, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for socket contact)	Plug housing(for pin contact)	Q'ty/ box
1	300V	7A	01R-MWPV-SSRR 	01P-MWPV-SSR 	252
2	300V	7A	02R-MWPV-SSRR 	02P-MWPV-SSR 	144

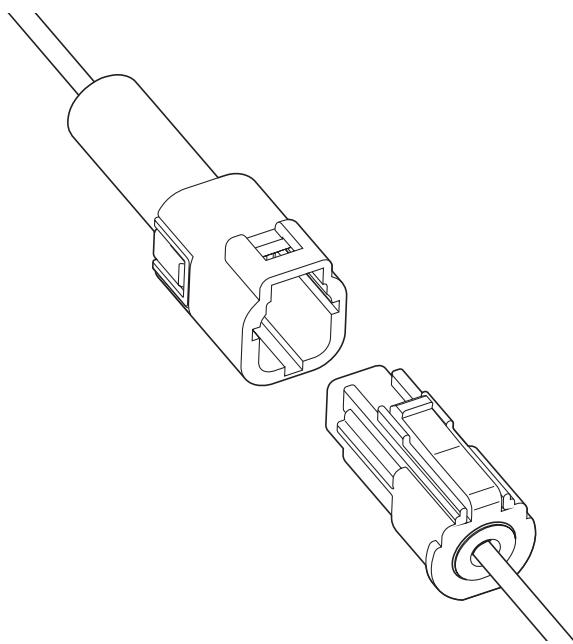
RoHS compliance

Note: 1. Model ()P-MWPV-SSR comes with the wire end seal and slider.
2. Model ()R-MWPV-SSRR comes with the rubber ring, wire end seal and slider.



WPK CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



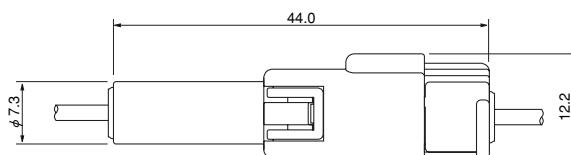
This connector is compact and excels in waterproof and durability. This wire-to-wire connector can be used for the place of which especially waterproof is required. Its waterproof grade is 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).

- **Waterproof performance**
- **Contained seal ring**
- **Proven contact configuration**
- **Inner-housing lock**
- **Compact design**

Specifications

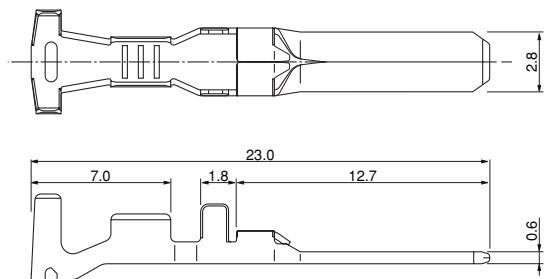
- Current rating: 7A AC, DC (0.85mm²)
 - Voltage rating: 12V AC, DC
 - Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/5m Ω max.
After environmental testing/10m Ω max.
 - Insulation resistance: 100M Ω min.
 - Withstanding voltage: 1,000V AC/minute
 - Applicable wire: 0.5 to 0.85mm²
Insulation O.D./1.6 to 1.9mm
 - Waterproof grade: Grade 7 ingress protection of JIS C 0920
(IEC 60529 IPX7)
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Assembly layout

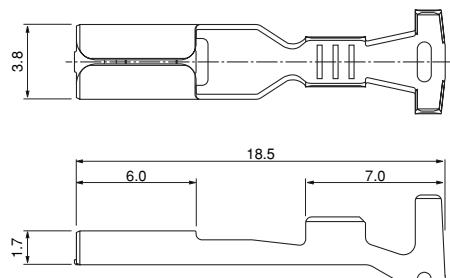


Terminal

Male terminal



Female terminal



Model No.		Applicable wire (mm ²)	Insulation O.D. (mm)	Q'ty/reel
Male terminal	Female terminal			
SWPKP-21T-0.6	SWPKR-21T-0.6	0.5 ~ 0.85	1.6 ~ 1.9	3,000

Material and Finish				
Copper alloy, tin-plated (reflow treatment)				

RoHS compliance

Terminal	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPKP-21T-0.6	AP-K2N	MKS-L	MK/SWPKP/R-21-06	APLMK SWPKP/R21-06
		—	—	—
SWPKR-21T-0.6	AP-K2N	MKS-L	MK/SWPKP/R-21-06	APLMK SWPKP/R21-06
		—	—	—

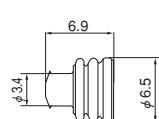
Housing

Material: PBT, black

Circuit	Voltage rating	Current rating	Male housing(for male terminal)	Female housing(for female terminal)	Q'ty/box
1	12V	7A	01P-WPKH-KN 36.4 18.8 10.4 12.2 10.4 Φ7.3	WPKR-01H-K 12.2 2.25 5.9 4.3 13.0 1.5 8.5 10.4	100

RoHS compliance

Wire end seal

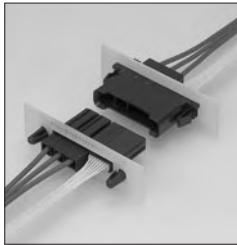


Model No.	Rubber inner diameter (mm)	Insulation O.D. (mm)	Q'ty / bag
WPKS-1.3N	1.3	1.6~1.9	1,500

Color	Material
Brown	NBR

RoHS compliance

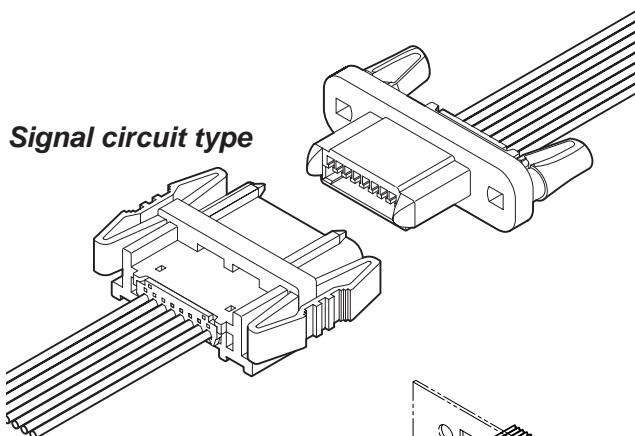
Note: Contact JST for applicable wire.



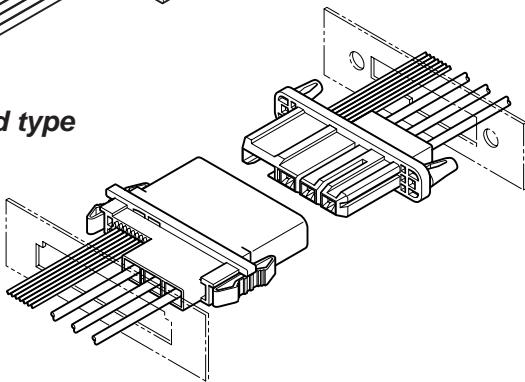
RIZ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors

Signal circuit type



Hybrid type

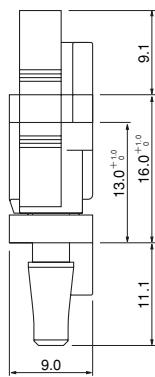


In unit connection, this RIZ connector is a hybrid type single row drawer connector with combined signal and power supply circuits, absorbs misalignment between

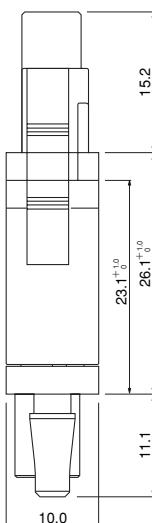
- Space saving
- Panel locking device
- Durability
- Hybrid type

Assembly layout

Signal circuit type



Hybrid type



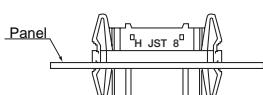
Panel layout

Plug

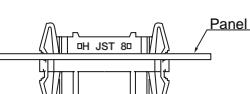
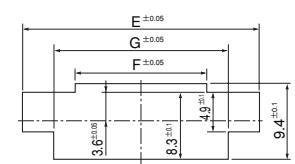
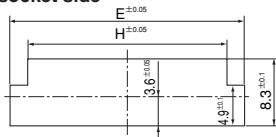
Signal circuit type

Panel thickness: 1.2mm, 1.6mm, 2.0mm

When mounting from mating side



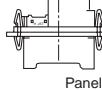
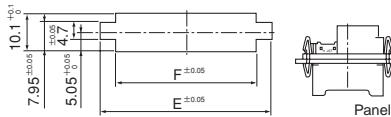
When mounting from socket side



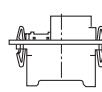
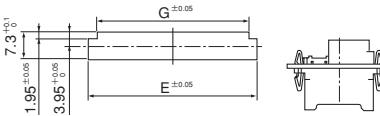
Hybrid type

Panel thickness: 1.2mm, 1.6mm, 2.0mm

When mounting from mating side



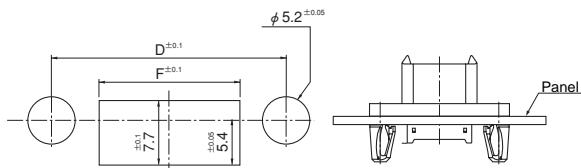
When mounting from socket side



Receptacle

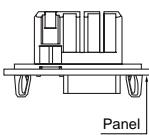
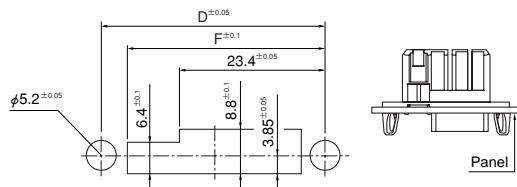
Signal circuit type

Panel thickness: 2.0mm



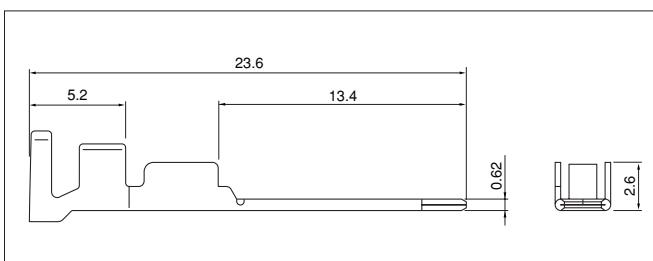
Hybrid type

Panel thickness: 2.0mm



Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm ²	AWG #		
SRWM-01GG-S0.6	0.2 ~ 0.5	24~20	1.4 ~ 1.9	4,000
SRWM-21GG-S0.6	0.3 ~ 0.75	22~18	1.55~3.1	—
SRWM-61GG-S0.6	0.75~2.0	18~14	2.0 ~ 3.6	3,000

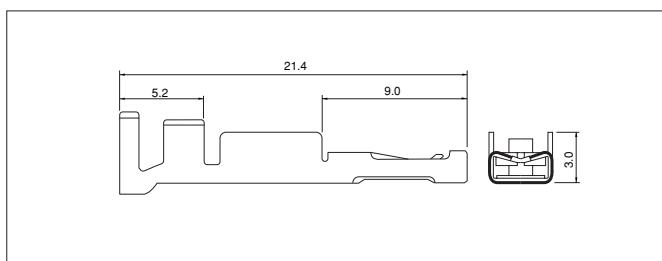
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-01GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWM-21GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWM-61GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm ²	AWG #		
SRWF-01GG-M0.6	0.2 ~ 0.5	24~20	1.4 ~ 1.9	4,000
SRWF-21GG-M0.6	0.3 ~ 0.75	22~18	1.55~3.1	3,000
SRWF-61GG-M0.6	0.75~2.0	18~14	2.0 ~ 3.6	3,000

Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

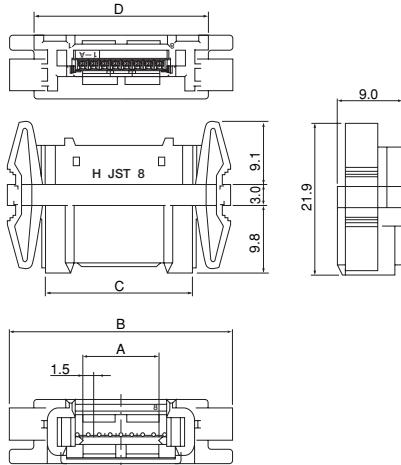
RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-01GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWF-21GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWF-61GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

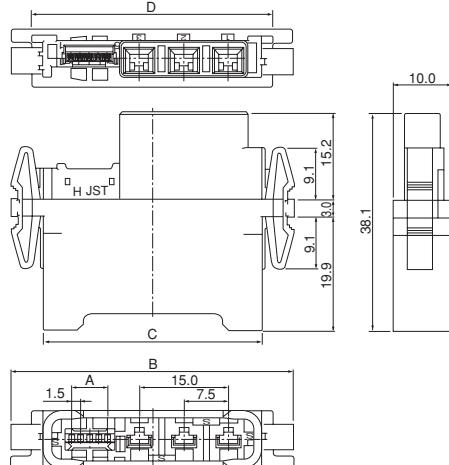
RIZ CONNECTOR

Plug

Signal circuit type



Hybrid type



Circuits Power supply	Model No.	Dimensions (mm)								Q'ty/box	
		A	B	C	D	E t=1.2	E t=1.6,2.0	F	G		
4	04P-RIZ-K2GG-RL	4.5	24.7	14.1	17.8	22.1	22.3	9.4	14.5	18.2	80
6	06P-RIZ-K2GG-RL	7.5	27.7	17.1	20.8	25.1	25.3	12.4	17.5	21.2	80
8	08P-RIZ-K2GG-RL	10.5	30.7	20.1	23.8	28.1	28.3	15.4	20.5	24.2	80
10	10P-RIZ-K2GG-RL	13.5	33.7	23.1	26.8	31.1	31.3	18.4	23.5	27.2	80
14	14P-RIZ-K2GG-RL	19.5	39.7	29.1	32.8	37.1	37.3	24.4	29.5	33.2	80

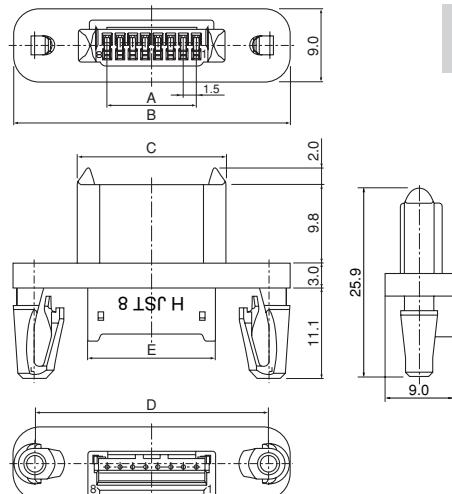
Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

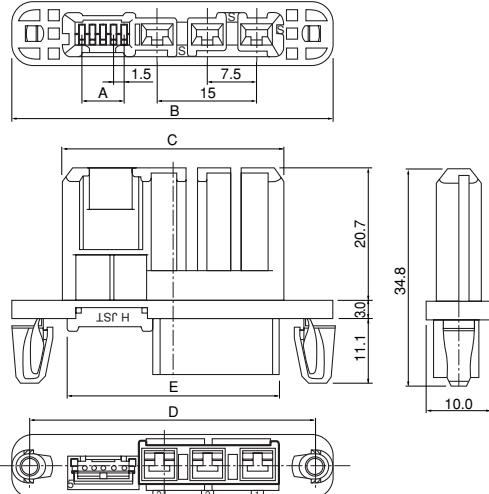
RoHS compliance This product displays (LF)(SN) on a label.

Receptacle

Signal circuit type



Hybrid type



Circuits Power supply	Model No.	Dimensions (mm)						Q'ty/box
		A	B	C	D	E	F	
4	04R-RIZ-K4GG-FL	4.5	26.5	11.3	21.6	9.0	10.8	80
6	06R-RIZ-K4GG-FL	7.5	29.5	14.3	24.6	12.0	13.8	80
8	08R-RIZ-K4GG-FL	10.5	32.5	17.3	27.6	15.0	16.8	80
10	10R-RIZ-K4GG-FL	13.5	35.5	20.3	30.6	18.0	19.8	80
14	14R-RIZ-K4GG-FL	19.5	41.5	26.3	36.6	24.0	25.8	60

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

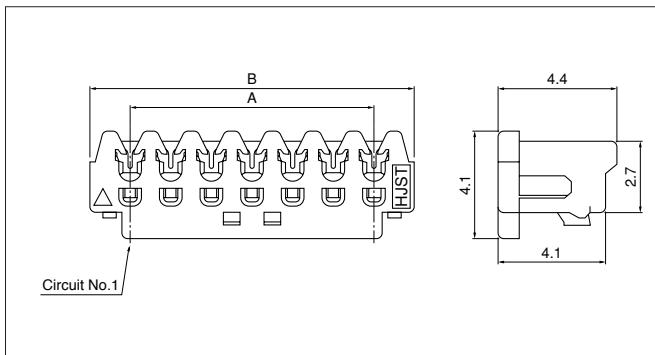
Circuits Power supply	Model No.	Dimensions (mm)						Q'ty/box
		A	B	C	D	E	F	
7	07R-RIZ-K4GG-SQ3FL	9.0	52.6	36.5	47.7	35.1	36.9	75
8	08R-RIZ-K4GG-SQ3FL	10.5	54.1	38.0	49.2	36.6	38.4	75
13	13R-RIZ-K4GG-SQ3FL	18.0	61.6	45.5	56.7	44.1	45.9	60

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector socket



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
7	07CZ-6H	07CZ-6Y	9.0	12.0	2,000
8	08CZ-6H	08CZ-6Y	10.5	13.5	2,000
10	10CZ-6H	10CZ-6Y	13.5	16.5	1,000
13	13CZ-6H	13CZ-6Y	18.0	21.0	1,000
14	14CZ-6H	14CZ-6Y	19.5	22.5	1,000

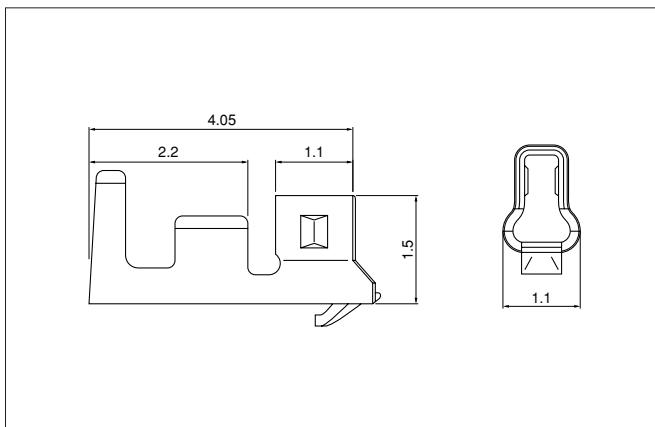
Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment) □

Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

Material and Finish				
Copper alloy, tin-plated (reflow treatment)				

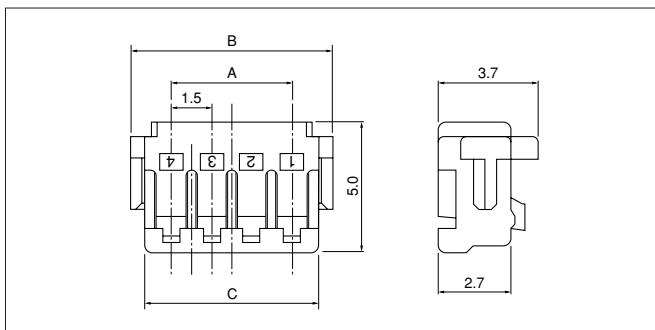
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05

Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

CZH connector housing

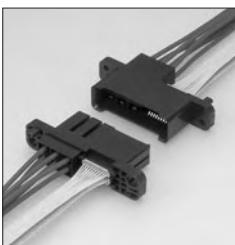


Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	CZHR-04V-S	4.5	7.5	6.5	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
7	CZHR-07V-S	9.0	12.0	11.0	1,000
8	CZHR-08V-S	10.5	13.5	12.5	1,000
10	CZHR-10V-S	13.5	16.5	15.5	1,000
13	CZHR-13V-S	18.0	21.0	20.0	1,000
14	CZHR-14V-S	19.5	22.5	21.5	1,000

Material

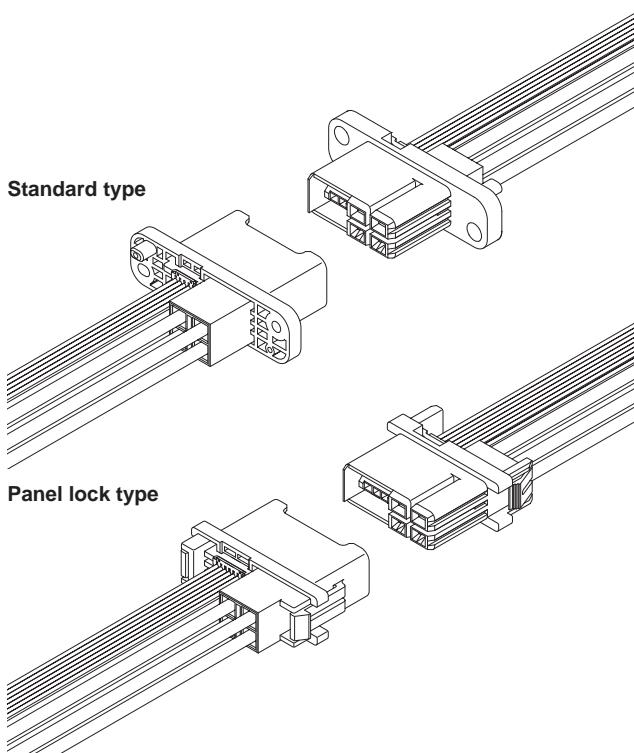
PBT, UL94V-0, natural (white)

RoHS compliance



RWZ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



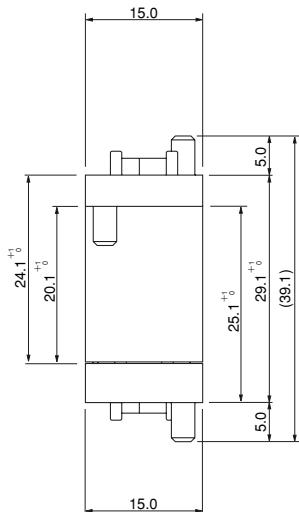
In unit connection, this RWZ connector is a hybrid type double row drawer connector with combined signal and power supply circuits, absorbs misalignment between units, and excels durability.

- **Durability**
- **Absorbed misalignment mechanism**
- **Space saving**
- **Hybrid type**

Assembly layout

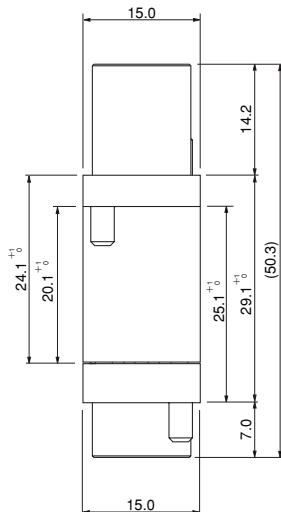
Standard type

Signal type



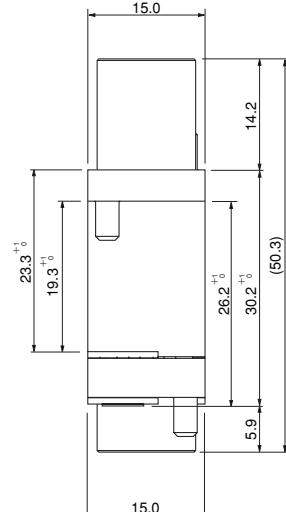
Standard type

Hybrid type



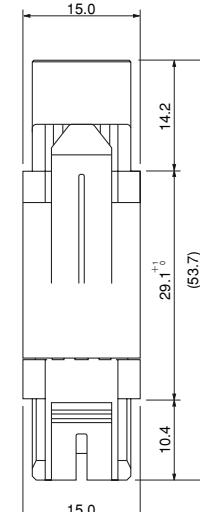
Floating bushing type

Hybrid type



Panel lock type

Hybrid type

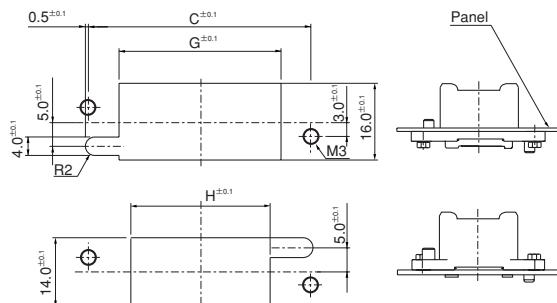


Panel layout

Plug

Standard type

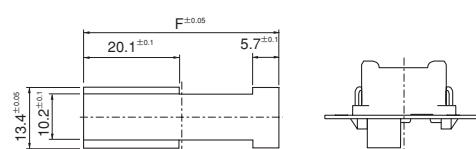
Panel thickness: 0.8 to 2.0mm



Plug

Panel lock type

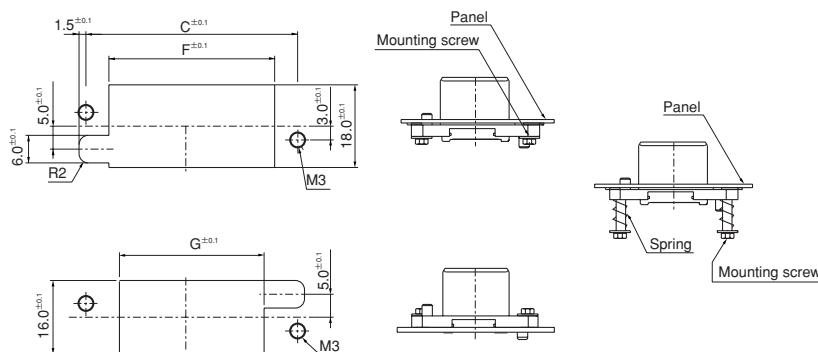
Panel thickness: 2.0mm



Receptacle

Standard type

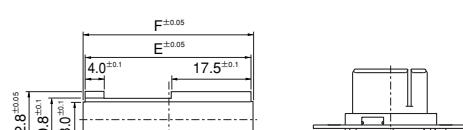
Panel thickness: 0.8 to 2.0mm



Receptacle

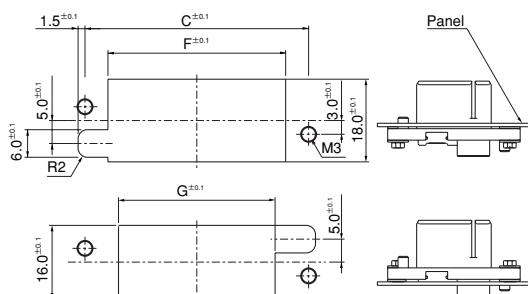
Panel lock type

Panel thickness: 1.2mm, 1.6mm, 2.0mm



Floating bushing type

Panel thickness: 0.8 to 2.0mm



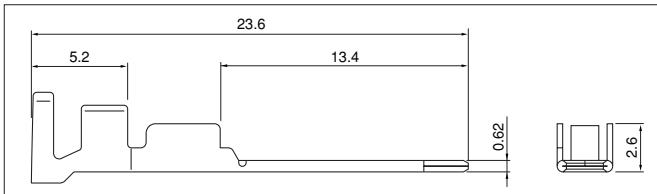
Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.

2. The strength of the panel must be considered when punching two or more holes.

3. The connector must be inserted from the same side as the hole is punched.

RWZ CONNECTOR

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm ²	AWG #		
SRWM-01GG-S0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWM-21GG-S0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWM-61GG-S0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

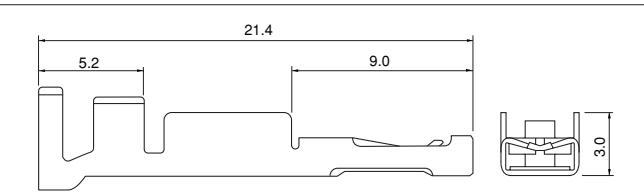
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-01GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWM-21GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWM-61GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm ²	AWG #		
SRWF-01GG-M0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWF-21GG-M0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWF-61GG-M0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

Material and Finish

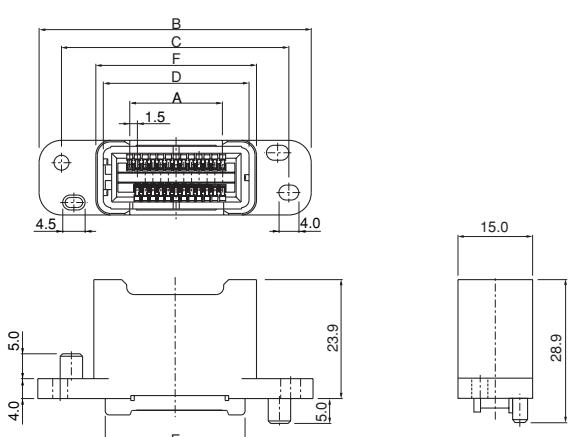
Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-01GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	PLMK SRPF/M01-06
		—	—	—
SRWF-21GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWF-61GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Plug

Standard/Signal circuits type



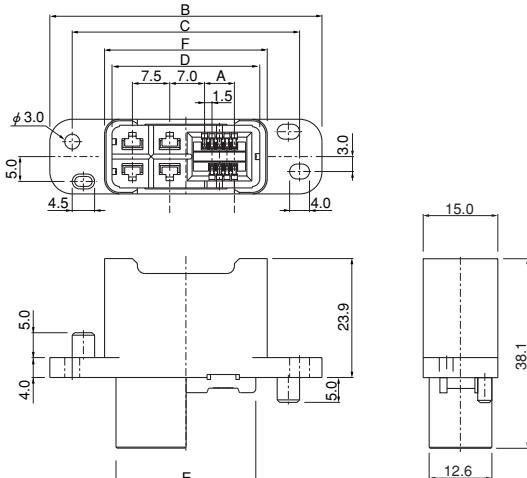
Circuits Power supply	Model No.	Dimensions (mm)								Q'ty/ box
		A	B	C	D	E	F	G	H	
25	25P-RWZV-K4GG	18.0	53.2	44.2	28.2	26.6	31.2	32.2	27.6	240
31	31P-RWZV-K4GG	22.5	57.7	48.7	32.7	31.1	35.7	36.7	32.1	216
33	33P-RWZV-K4GG	24.0	59.2	50.2	34.2	32.6	37.2	38.2	33.6	192

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Standard/Hybrid type



Circuits Power supply	Model No.	Dimensions (mm)								Q'ty/ box
		A	B	C	D	E	F	G	H	
2	39P-RWZV-K4GG-P2	28.5	69.7	60.7	44.7	43.1	47.7	48.7	44.1	168
9	09P-RWZV-K4GG-P4	6.0	54.7	45.7	29.7	28.1	32.7	33.7	29.1	216
4	13P-RWZV-K4GG-P4	9.0	57.7	48.7	32.7	31.1	35.7	36.7	32.1	216
21	21P-RWZV-K4GG-P4	15.0	63.7	54.7	38.7	37.1	41.7	42.7	38.1	192
19	19P-RWZV-K4GG-P6	13.5	69.7	60.7	44.7	43.1	47.7	48.7	44.1	168
6	23P-RWZV-K4GG-P6	16.5	72.7	63.7	47.7	46.1	50.7	51.7	47.1	144

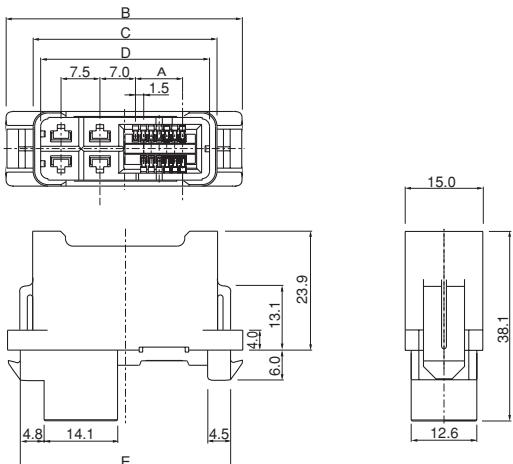
Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Plug

Panel lock/Hybrid type



Circuits Power supply Signal	Model No.	Dimensions (mm)						Q'ty/ box	
		A	B	C	D	E	F		
4	13	13P-RWZV-K4GG-P4FL	9.0	45.5	35.7	32.7	40.7	41.5	216

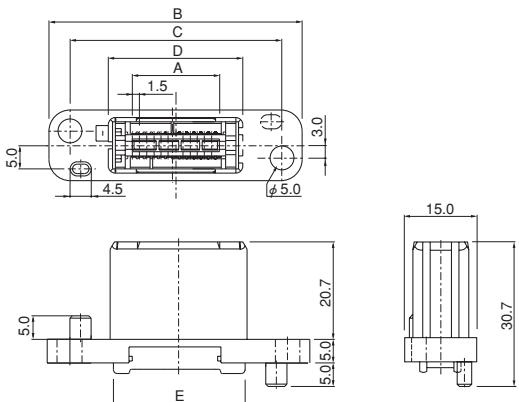
Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle

Standard/Signal circuits type



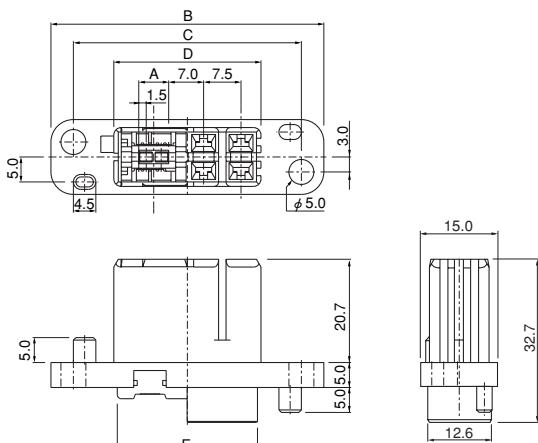
Circuits Power supply Signal	Model No.	Dimensions (mm)						Q'ty/ box
		A	B	C	D	E	F	
25	25R-RWZV-K2GG	18.0	53.2	44.2	28.0	26.6	34.2	29.6
-	31R-RWZV-K2GG	22.5	57.7	48.7	32.5	31.1	38.7	34.1
33	33R-RWZV-K2GG	24.0	59.2	50.2	34.0	32.6	40.2	35.6

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Standard/Hybrid type



Circuits Power supply Signal	Model No.	Dimensions (mm)						Q'ty/ box	
		A	B	C	D	E	F		
2	39	39R-RWZV-K2GG-P2	28.5	69.7	60.7	44.5	43.1	50.7	46.1
9	09R-RWZV-K2GG-P4	6.0	54.7	45.7	29.5	28.1	35.7	31.1	
4	13	13R-RWZV-K2GG-P4	9.0	57.7	48.7	32.5	31.1	38.7	34.1
21	21R-RWZV-K2GG-P4	15.0	63.7	54.7	38.5	37.1	44.7	40.1	
6	19	19R-RWZV-K2GG-P6	13.5	69.7	60.7	44.5	43.1	50.7	46.1
	23	23R-RWZV-K2GG-P6	16.5	72.7	63.7	47.5	46.1	53.7	49.1

Material and Finish

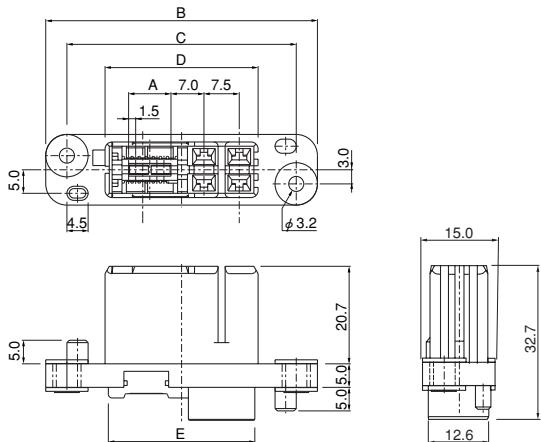
Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

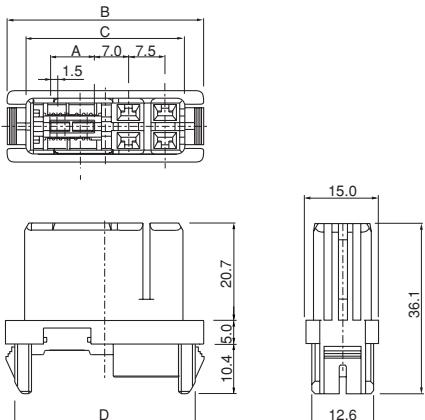
RWZ CONNECTOR

Receptacle

Floating bushing/Hybrid type



Panel lock/Hybrid type



Circuits Power supply Signal	Model No.	Dimensions (mm)							Q'ty/ box
		A	B	C	D	E	F	G	
2 39	39R-RWZV-K2GG-P2BM	28.5	69.7	60.7	44.5	43.1	50.7	46.1	168
4 21	21R-RWZV-K2GG-P4BM	15.0	63.7	54.7	38.5	37.1	44.7	40.1	192

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black
Washer: Copper alloy, nickel-plated
Floating rivet: Copper alloy, nickel-plated

RoHS compliance This product displays (LF)(SN) A on a label.

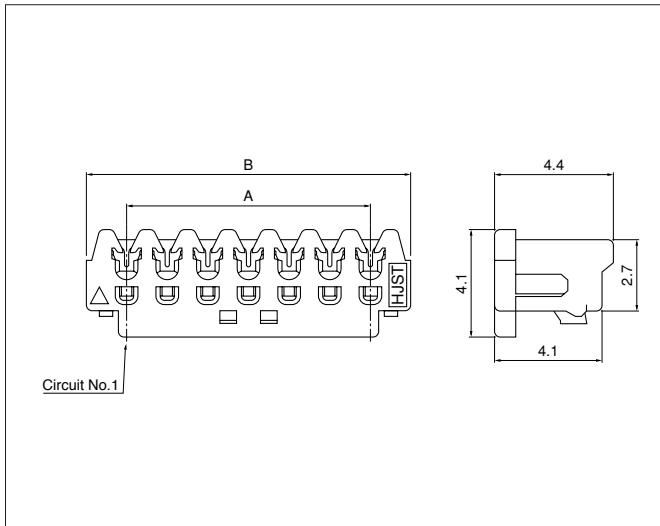
Circuits Power supply Signal	Model No.	Dimensions (mm)							Q'ty/ box
		A	B	C	D	E	F <small>t=1.2</small>	F <small>t=1.6,2.0</small>	
4 13	13R-RWZV-K2GG-Q4RL	9.0	40.3	32.5	36.5	36.7	37.2	37.5	264

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector socket



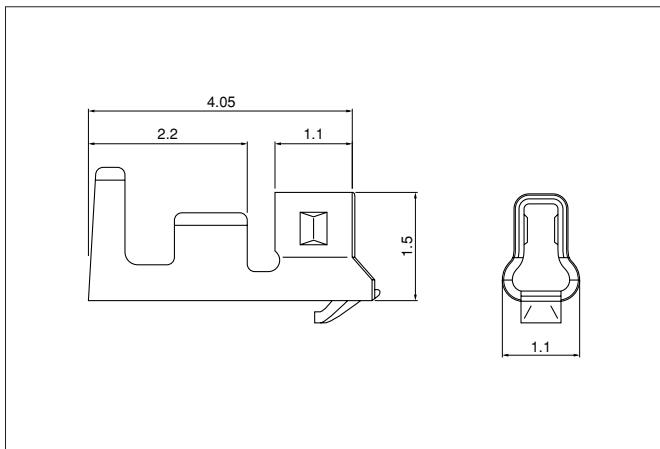
Circuits	Model No.		Dimensions (mm)		Q'ty/box
	Gray	Yellow	A	B	
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
5	05CZ-6H	05CZ-6Y	6.0	9.0	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
7	07CZ-6H	07CZ-6Y	9.0	12.0	2,000
9	09CZ-6H	09CZ-6Y	12.0	15.0	1,000
10	10CZ-6H	10CZ-6Y	13.5	16.5	1,000
11	11CZ-6H	11CZ-6Y	15.0	18.0	1,000
12	12CZ-6H	12CZ-6Y	16.5	19.5	1,000
13	13CZ-6H	13CZ-6Y	18.0	21.0	1,000
15	15CZ-6H	15CZ-6Y	21.0	24.0	1,000
16	16CZ-6H	16CZ-6Y	22.5	25.5	1,000
17	17CZ-6H	17CZ-6Y	24.0	27.0	1,000
19	19CZ-6H	19CZ-6Y	27.0	30.0	1,000
20	20CZ-6H	20CZ-6Y	28.5	31.5	1,000

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

Material and Finish

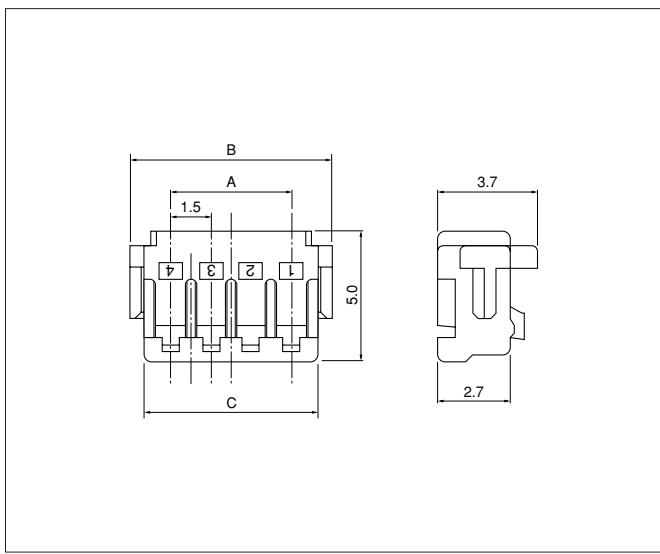
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: The product listed above is not CSA approved in combination with RWZ connector. (CZH connector itself is approved.)

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05

CZH connector housing



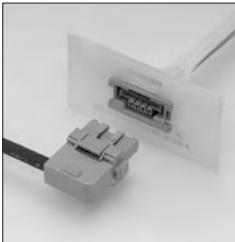
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	CZHR-04V-S	4.5	7.5	6.5	1,000
5	CZHR-05V-S	6.0	9.0	8.0	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
7	CZHR-07V-S	9.0	12.0	11.0	1,000
9	CZHR-09V-S	12.0	15.0	14.0	1,000
10	CZHR-10V-S	13.5	16.5	15.5	1,000
11	CZHR-11V-S	15.0	18.0	17.0	1,000
12	CZHR-12V-S	16.5	19.5	18.5	1,000
13	CZHR-13V-S	18.0	21.0	20.0	1,000
15	CZHR-15V-S	21.0	24.0	23.0	1,000
16	CZHR-16V-S	22.5	25.5	24.5	1,000
17	CZHR-17V-S	24.0	27.0	26.0	1,000
19	CZHR-19V-S	27.0	30.0	29.0	1,000
20	CZHR-20V-S	28.5	31.5	30.5	1,000

Material

PBT, UL94V-0, natural (white)

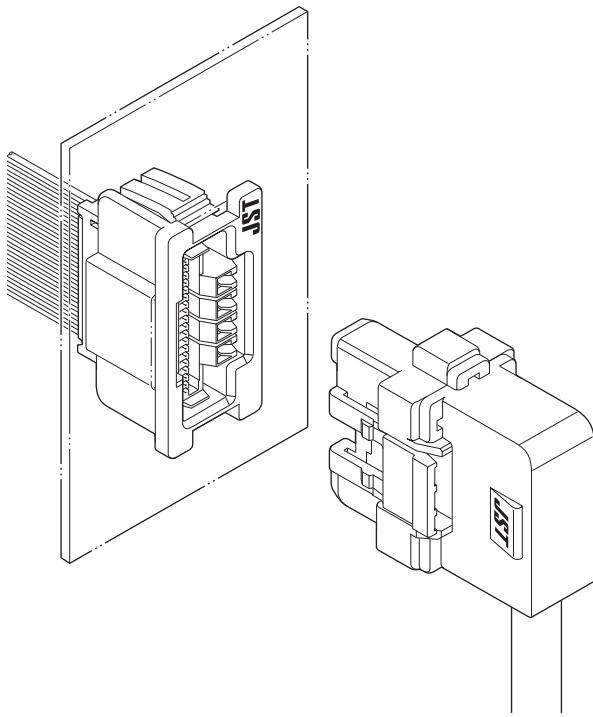
RoHS compliance

Note: The products listed above are not CSA approved in combination with RWZ connector. (CZH connector itself is approved.)



OTZ CONNECTOR

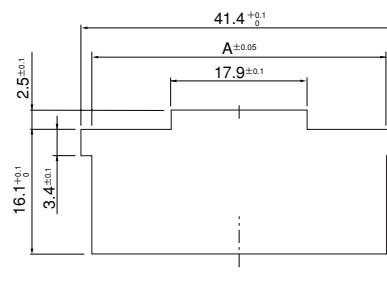
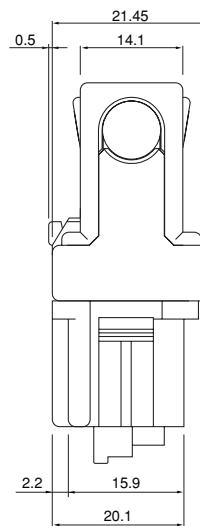
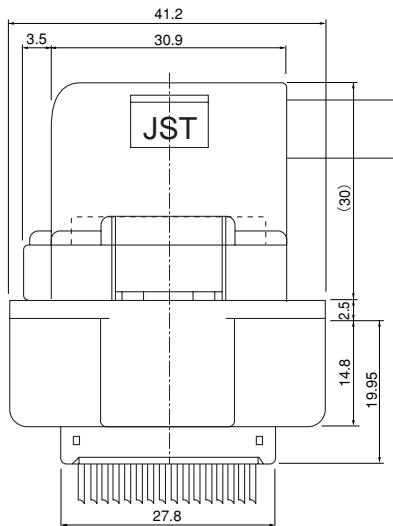
Disconnectable Crimp style Wire-to-wire connectors



Hybrid type I/O connector with combined signal and power supply circuits.

- **Curtailment of number of component**
- **Space saving**
- **Lever lock function**

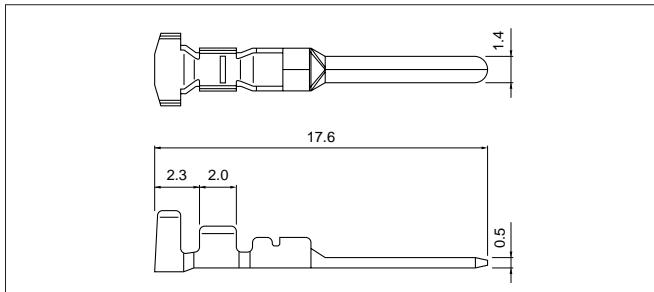
Assembly layout and Panel layout



Panel thickness	t 1.2	t 1.6	t 2.0
A dimension	38.4	38.6	

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Power supply circuit contact plug



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SSM-01GD-P1.4	0.13~0.5	26~20	1.3~2.5	6,000

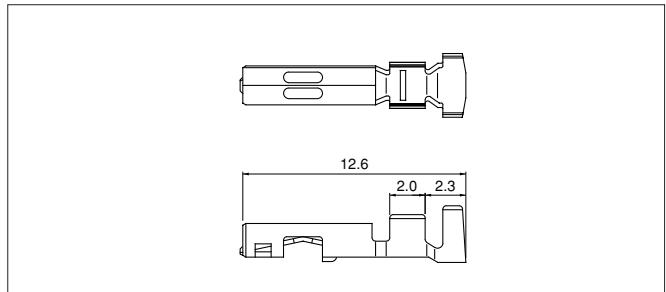
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01GD-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14

Power supply circuit contact receptacle



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SSF-01GW-P1.4	0.13~0.5	26~20	1.3~2.5	6,000

Material and Finish

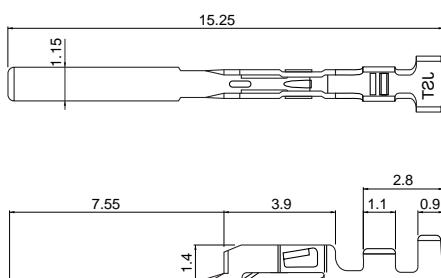
Copper alloy, nickel-undercoated, overall gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSF-01GW-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14

Plug

Plug contact for signal



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SOTZP-002GG-P0.18	0.08~0.13	28~26	0.7~0.93	13,000

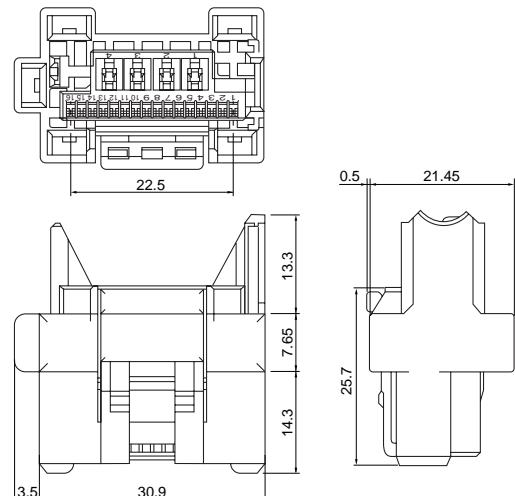
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SOTZP-002GG-P0.18	AP-K2N	MKS-L	MK/SOTZP-002-018	APLMK SOTZP002-018

Signal 16 circuit / power 4 circuit



Model No.	Q'ty / box
OTZP-16-H-P4	100

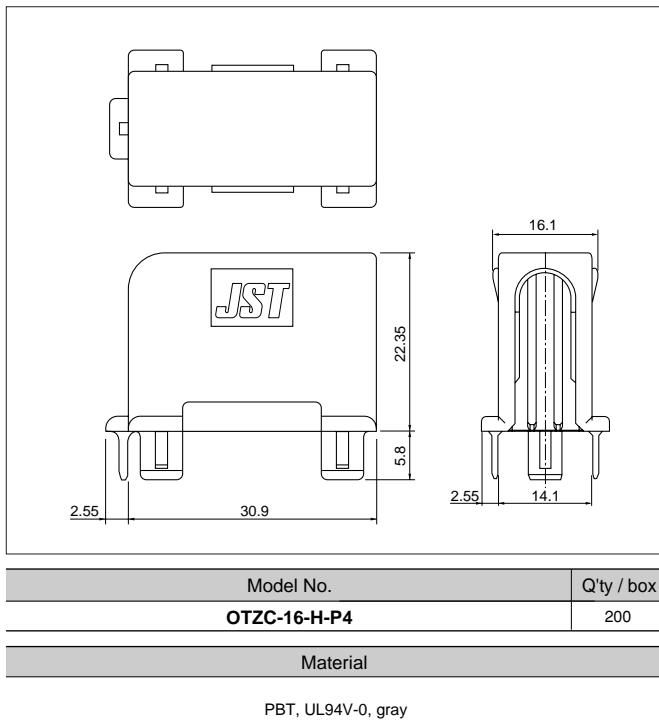
Material

PBT, UL94V-0, gray

RoHS compliance

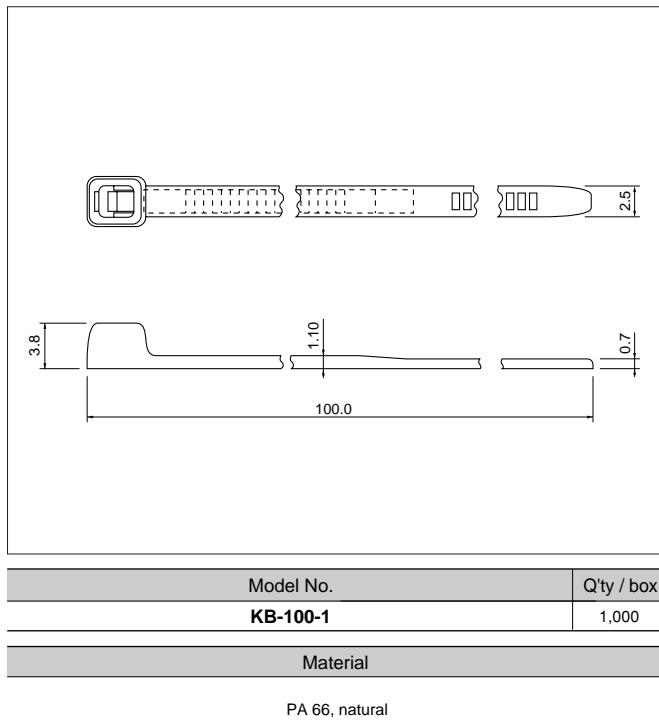
OTZ CONNECTOR

Plug cover



RoHS compliance

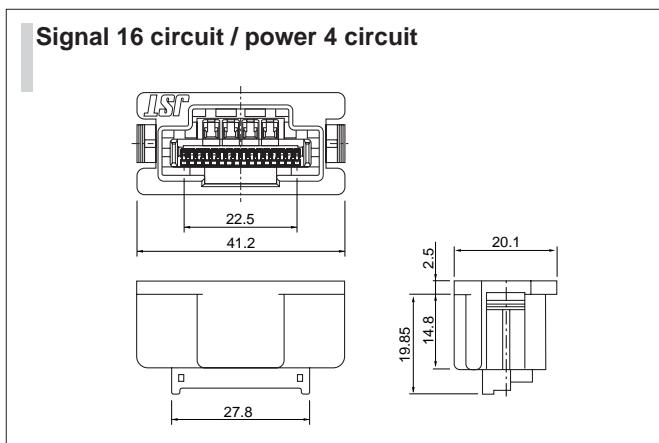
Tie lock



RoHS compliance

Note: Not UL/CSA approved.

Receptacle

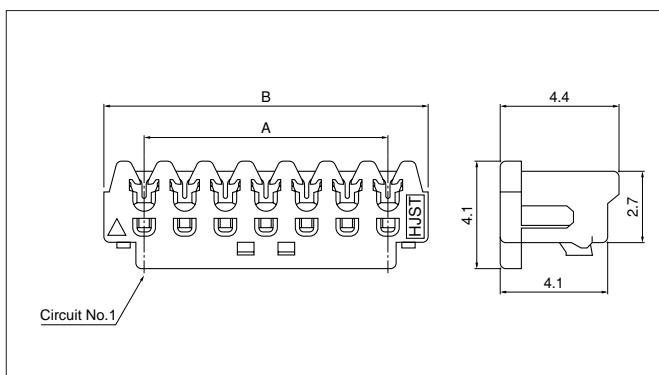


Model No.	Q'ty / box
16R-OTZ-H4GG-P4RL	40

Material and Finish
Housing: PBT, UL94V-0, gray Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector socket



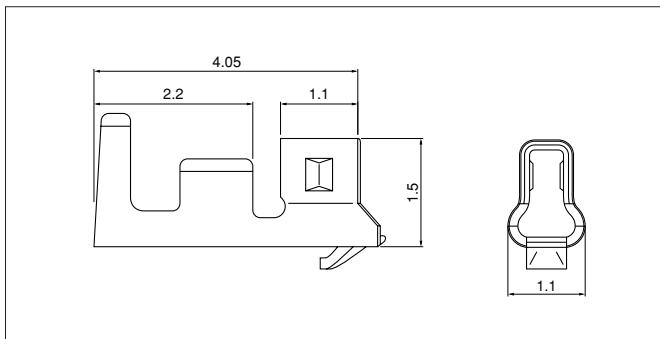
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
16	16CZ-6H	16CZ-6Y	22.5	25.5	1,000

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

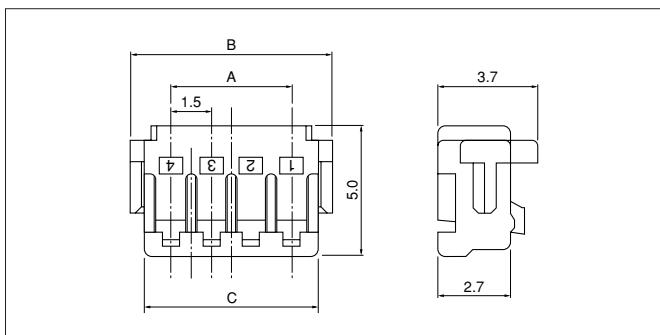
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: The product listed above is not UL/CSA approved in combination with OTZ connector. (CZH connector itself is approved.)

CZH connector housing



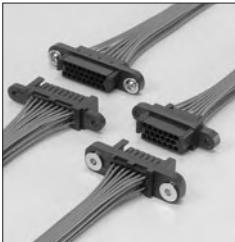
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
16	CZHR-16V-S	22.5	25.5	24.5	1,000

Material

PBT, UL94V-0, natural (white)

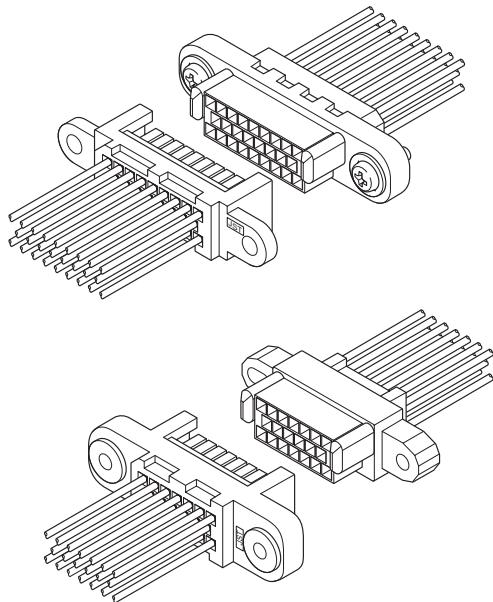
RoHS compliance

Note: The product listed above is not UL/CSA approved in combination with OTZ connector. (CZH connector itself is approved.)



RPJ CONNECTOR

2.7mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The pin and socket are adopted for use as the small rack panel connector.

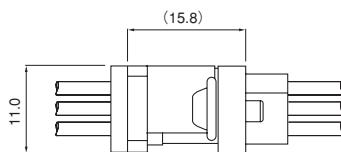
- **Compact design**
- **Structure**
- **Contact lance**

Specifications

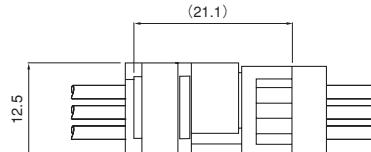
- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #24
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Assembly layout and Panel layout

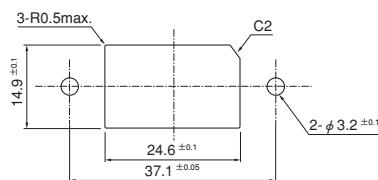
Plug



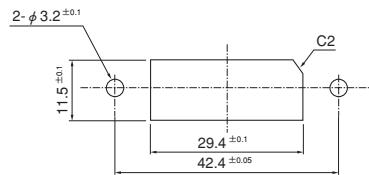
Receptacle



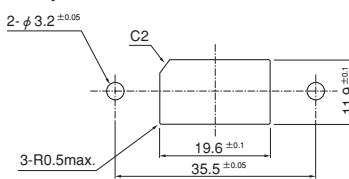
(20 circuits)



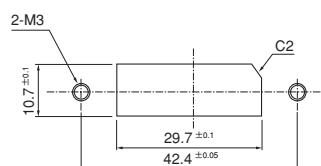
(26 circuits)



(20 circuits)

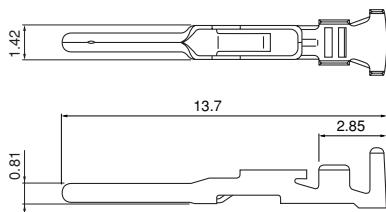


(26 circuits)

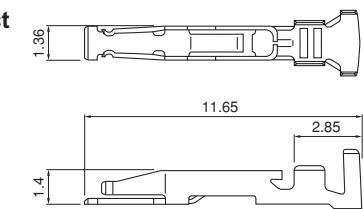


Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
RPJ-SP2331	RPJ-SS2331	0.08~0.22	28~24	0.9~1.5	10,000

Material and Finish

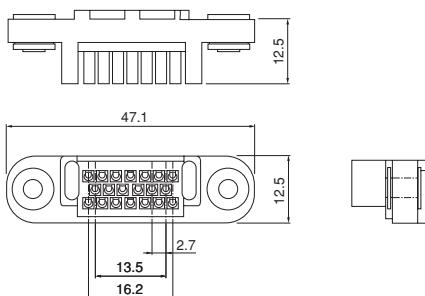
Phosphor bronze, nickel-undercoated, gold-plated

RoHS compliance

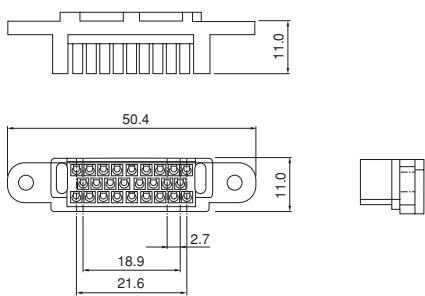
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
RPJ-SP2331	MKS-L	MK/RPJ-SP/SS2	APLMK RPJ-SP/SS2	—
RPJ-SS2331	AP-K2N	—	—	—

Plug housing

(20 circuits)



(26 circuits)



Circuits	Model No.	Q'ty / box
20	RPJ-20PRW	50
26	RPJ-26P	50

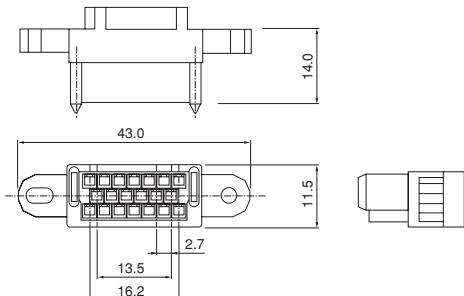
Material and Finish

Plug housing: Glass-filled PBT, UL94V-0
Washer: Brass, nickel-plated (RPJ-20PRW)
Rivet: Brass, nickel-plated (RPJ-20PRW)

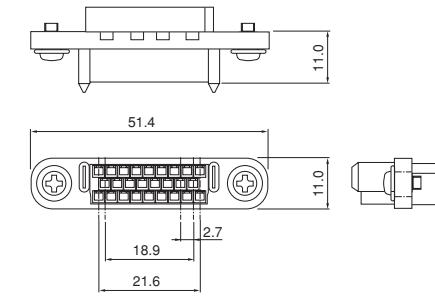
RoHS compliance

Receptacle housing

(20 circuits)



(26 circuits)



Circuits	Model No.	Q'ty / box
20	RPJ-20R	50
26	RPJ-26RS	50

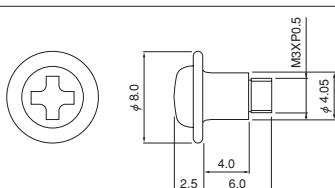
Material

Receptacle housing: Glass-filled PBT, UL94V-0

RoHS compliance

Note: Two screws are supplied under the same package of RPJ-26RS.

Screw



Note: Two screws are supplied for one receptacle housing, RPJ-26RS.

4

Connector Series

TABLE OF CONTENTS

PA FAMILY SERIES	406
CZ FAMILY SERIES	416
KR FAMILY SERIES	422
◆JFA CONNECTOR SERIES	
J1000 SERIES	430
J2000 SERIES	436
J300 SERIES	450
J-FAT SERIES	474
J4000 SERIES	478
J5000 SERIES	483
Metal Shell SERIES	487
J2900 SERIES	489
JFA-M SERIES	493
Connector kits for motor/J1700, J2700, J3700 SERIES	501
PROTECTOR.....	503

• TPE connector

• TPE industrial's first series 10x1 ID connection

• Multi-line series

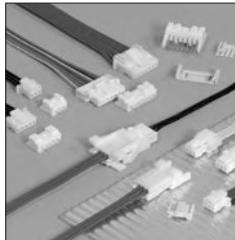
• Reliable with low locking points

• TPE connector

• TPE industrial's first wire to wire 5.0mm pitch

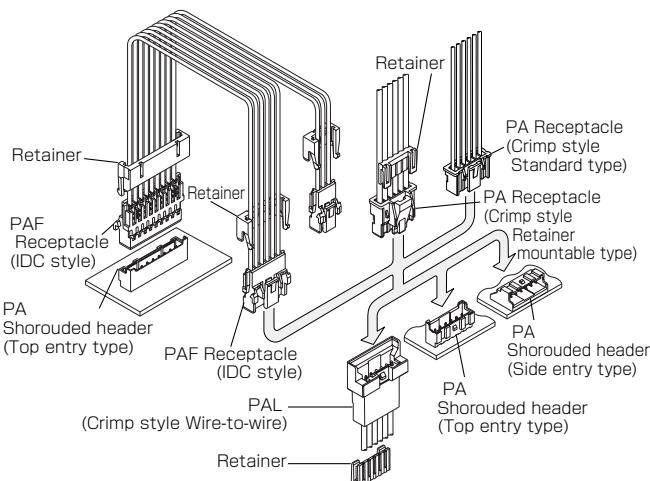
• Industrial multi-pin 10x5 connection

• Reliable with low locking points



PA FAMILY SERIES/PA•PAF•PAL CONNECTOR

2.0mm pitch/Wire-to-board (Crimp style/IDC) / Wire-to-wire (Crimp style/IDC)



Based upon wire-to-board crimp style PA connectors, the PA series family of connector have been expanded to meet the requirement of complex wire harness of 2.0mm pitch connectors with secure locking mechanism thanks to the additional line up of wire-to-board IDC style PAF connectors and wire-to-wire crimp style PAL connectors.

- Secure locking device
- Interchangeable between crimp and IDC socket
- Secondary retainers
- Harness variation

PA connector (Standard type, Retainer mountable type)

- Highly reliable contact
- Insertion guide mechanism
- Flanged press pin

PAF connector

- The industry's first secure lock ID connectors
- Metallic strain relief
- Retainer with four locking points

PAL connector

- The industry's first wire to wire 2.0mm pitch retainer mountable type connector.
- Either with or without panel lock can be selected according to application.

Standards

■ Recognized E60389

■ Certified LR20812

Specifications

PA Connector (Standard type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: Initial/1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

PA Connector (Retainer mountable type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
After environmental testing/25m Ω max.
- Insulation resistance: Initial/1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22

PAF Connector

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
After environmental testing/25m Ω max.
- Insulation resistance: Initial/1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1061(Contact JST for details regarding other UL wires.)
AWG #26
Conductor/7 strands, tin-coated annealed copper
Insulation O.D./0.9 to 1.0mm

PAL Connector

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
After environmental testing/25m Ω max.
- Insulation resistance: Initial/1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable panel thickness : 0.5 to 2.0mm

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

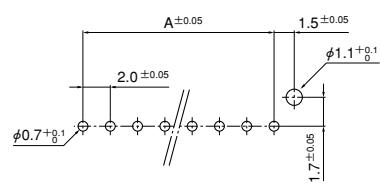
List of combinations

Crimp style Standard type	Contact SPHD-001T-P0.5 SPHD-002T-P0.5 Housing PAP-()V-S		Shrouded header B()B-PASK B()B-PASK-1 S()B-PASK-2	Top entry type Side entry type
Crimp style Retainer mountable type	Contact SPA-001T-P0.5 Housing PARP-()V Retainer PMS-()V-S		Shrouded header BH()B-PASK BH()B-PASK-1	High box type
Insulation displacement type	Receptacle ()PAF-6S Retainer PAFS-()V-S		Shrouded header BM()B-PASS BM()B-PASS-1 SM()B-PASS SM()B-PASS-1	SMT type
			Contact SPAL-001T-P0.5 SPAL-002T-P0.5 Receptacle housing PALR-()V(F) Retainer PMS-()V-S	Wire to wire Connectors

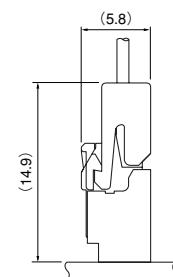
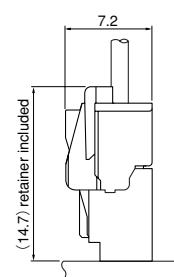
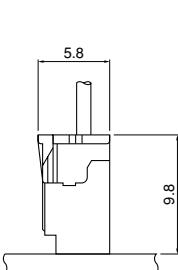
PC board layout (viewed from component side) and Assembly layout

Through-hole type

Top entry type



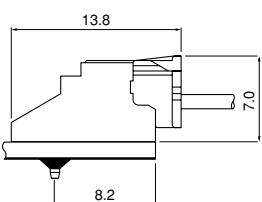
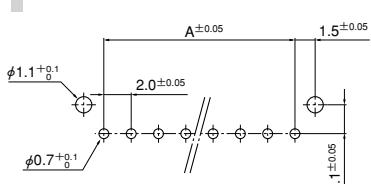
PA Receptacle + PA Header
(Standard type)



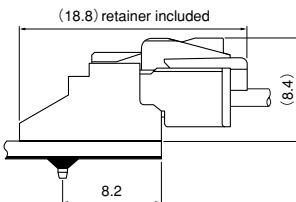
PA Receptacle + PA Header
(Retainer included)

PAF Receptacle +
PA Header

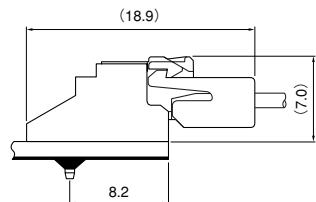
Side entry type



PA Receptacle
+ PA side entry type header
(Standard type)



PA Receptacle
+ PA side entry type header
(Retainer mountable type)



PAF Receptacle +
PA side entry type header

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

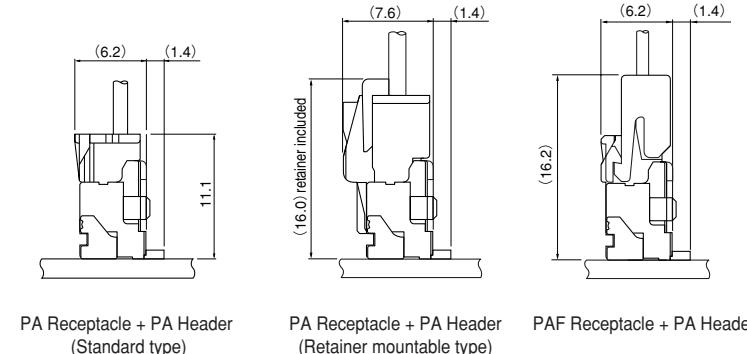
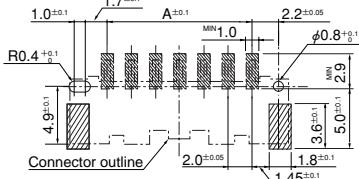
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

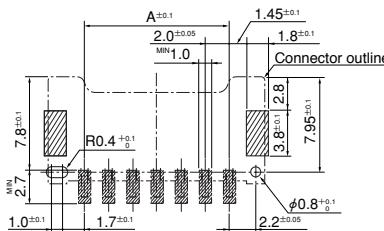
PC board layout (viewed from component side) and Assembly layout

SMT type

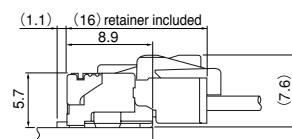
Top entry type



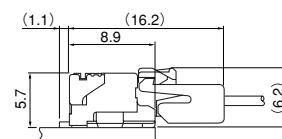
Side entry type



PA Receptacle +
PA side entry type header (SMT)
(Standard type)



PA Receptacle +
PA side entry type header (SMT)
(Retainer mountable type)

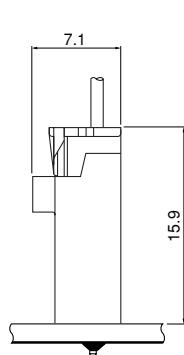
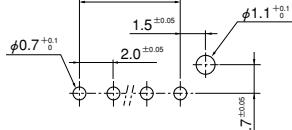


PAF Receptacle +
PA side entry type header (SMT)

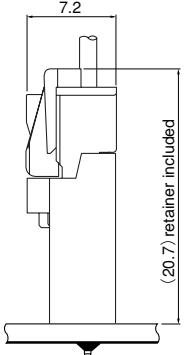
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

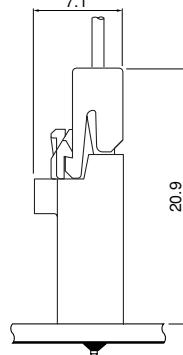
High box type



PA Receptacle +
PA high box type header
(Standard type)



PA Receptacle +
PA high box type header
(Retainer mountable type)

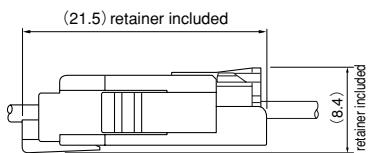


PAF Receptacle +
PA high box type header

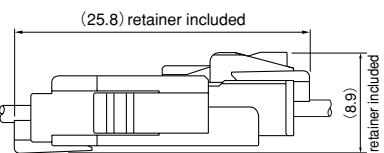
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

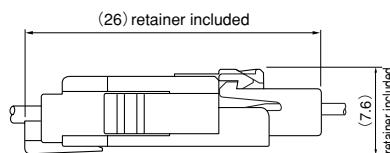
Wire-to-wire



PA Receptacle + PAL Receptacle
(Standard type)



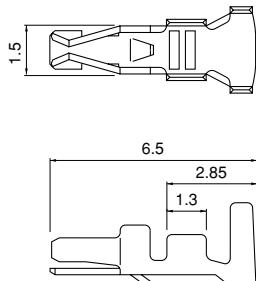
PA Receptacle + PAL Receptacle
(Retainer mountable type)



PAF Receptacle + PAL Receptacle

PA FAMILY SERIES /PA CONNECTOR (Crimp style Standard type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPHD-001T-P0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPHD-002T-P0.5	0.08~0.21	28~24	0.9~1.5	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

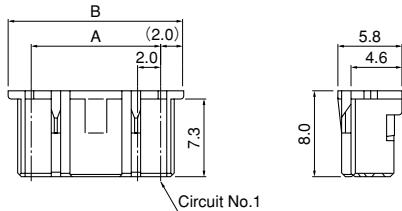
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-LS-10·MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
		*MKS-SC-10	SC/SPHD-002-05	APLSC SPHD002-05
SPHD-001T-P0.5		MKS-LS-10·MKS-L-10	MK/SPHD-001-05	APLMK SPHD001-05
		*MKS-SC-10	SC/SPHD-001-05	APLSC SPHD001-05

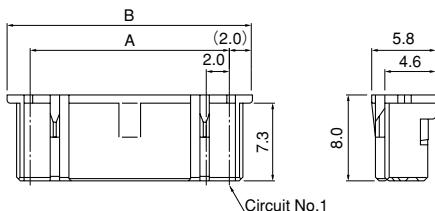
Note: *Strip-crimp applicator

Housing

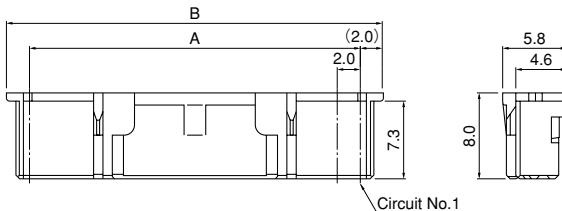
(2 to 9 circuits)



(10 to 15 circuits)



(16 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PAP-02V-S	2.0	6.0	1,000
3	PAP-03V-S	4.0	8.0	1,000
4	PAP-04V-S	6.0	10.0	1,000
5	PAP-05V-S	8.0	12.0	1,000
6	PAP-06V-S	10.0	14.0	1,000
7	PAP-07V-S	12.0	16.0	1,000
8	PAP-08V-S	14.0	18.0	1,000
9	PAP-09V-S	16.0	20.0	1,000
10	PAP-10V-S	18.0	22.0	1,000
11	PAP-11V-S	20.0	24.0	1,000
12	PAP-12V-S	22.0	26.0	1,000
13	PAP-13V-S	24.0	28.0	1,000
14	PAP-14V-S	26.0	30.0	1,000
15	PAP-15V-S	28.0	32.0	1,000
16	PAP-16V-S	30.0	34.0	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PAP-02V-S**

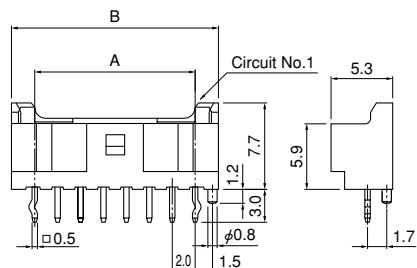
S...natural (white)

K...black R...red E...blue M...green O...orange N...brown
P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
LE...light blue H...gray TR...tomato red

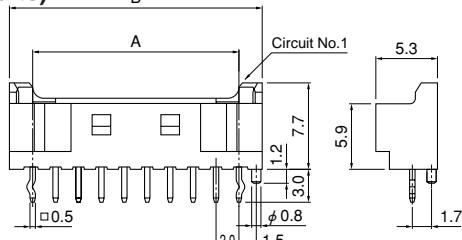
PA FAMILY SERIES

Through-hole type shrouded header

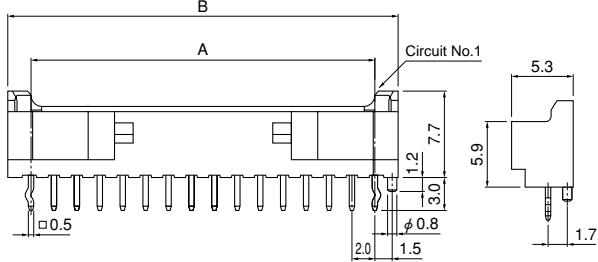
Top entry type (2 to 9 circuits)



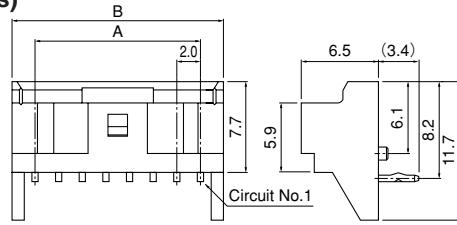
(10 to 15 circuits)



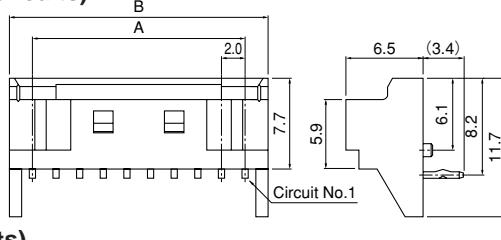
(16 circuits)



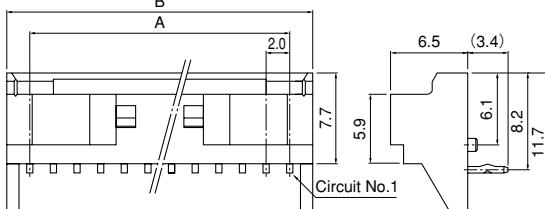
Side entry type (2 to 9 circuits)



(10 to 15 circuits)



(16 circuits)



Top entry type

Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2 (Note1)	B02B-PAFYK-A	B02B-PAFYK-1A	2.0	6.0	1,000
2	B02B-PASK	B02B-PASK-1	2.0	6.0	1,000
3	B03B-PASK	B03B-PASK-1	4.0	8.0	1,000
4	B04B-PASK	B04B-PASK-1	6.0	10.0	1,000
5	B05B-PASK	B05B-PASK-1	8.0	12.0	500
6	B06B-PASK	B06B-PASK-1	10.0	14.0	500
7	B07B-PASK	B07B-PASK-1	12.0	16.0	500
8	B08B-PASK	B08B-PASK-1	14.0	18.0	500
9	B09B-PASK	B09B-PASK-1	16.0	20.0	500
10	B10B-PASK	B10B-PASK-1	18.0	22.0	500
11	B11B-PASK	B11B-PASK-1	20.0	24.0	250
12	B12B-PASK	B12B-PASK-1	22.0	26.0	250
13	B13B-PASK	B13B-PASK-1	24.0	28.0	250
14	B14B-PASK	B14B-PASK-1	26.0	30.0	250
15	B15B-PASK	B15B-PASK-1	28.0	32.0	250
16	B16B-PASK	B16B-PASK-1	30.0	34.0	250

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PBT, UL94V-0, natural (white)

(Note1) PA 66, UL94V-0, vivid yellow

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-PASK**

S...natural (white)

K...black R...red E...blue M...green O...orange N...brown
P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
LE...light blue H...gray TR...tomato red

Side entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	S02B-PASK-2	2.0	6.0	1,000
3	S03B-PASK-2	4.0	8.0	1,000
4	S04B-PASK-2	6.0	10.0	500
5	S05B-PASK-2	8.0	12.0	500
6	S06B-PASK-2	10.0	14.0	500
7	S07B-PASK-2	12.0	16.0	250
8	S08B-PASK-2	14.0	18.0	250
9	S09B-PASK-2	16.0	20.0	250
10	S10B-PASK-2	18.0	22.0	250
11	S11B-PASK-2	20.0	24.0	250
12	S12B-PASK-2	22.0	26.0	250
13	S13B-PASK-2	24.0	28.0	200
14	S14B-PASK-2	26.0	30.0	200
15	S15B-PASK-2	28.0	32.0	200
16	S16B-PASK-2	30.0	34.0	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S03B-PASK-2**

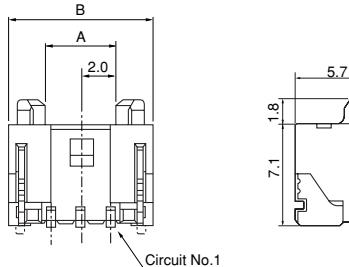
S...natural (white)

K...black R...red E...blue M...green O...orange N...brown
P...purple PK...pink Y...yellow L...lemon yellow LE...light blue
H...gray TR...tomato red

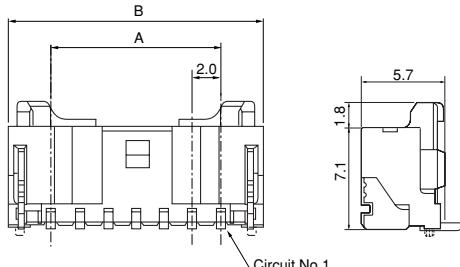
SMT type shrouded header

Top entry type

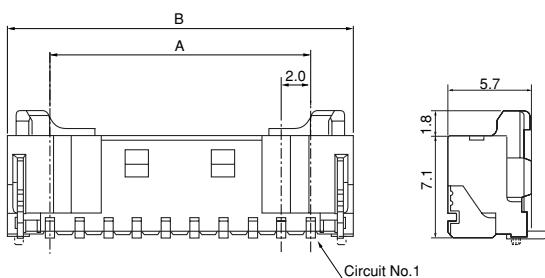
(2 to 3 circuits)



(4 to 9 circuits)

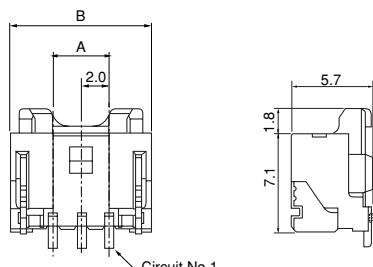


(10 to 13 circuits)

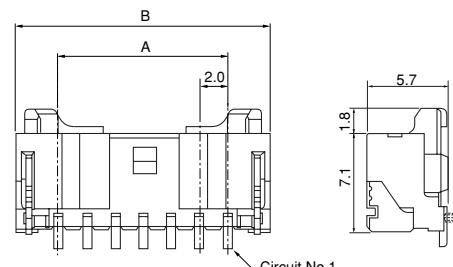


Side entry type

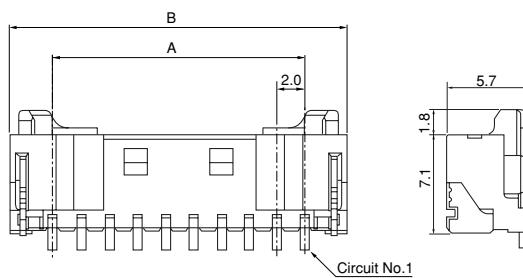
(2 to 3 circuits)



(4 to 9 circuits)



(10 to 12 circuits)



Top entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	BM02B-PASS-(*)	BM02B-PASS-1-(*)	2.0	8.0	500
3	BM03B-PASS-(*)	BM03B-PASS-1-(*)	4.0	10.0	500
4	BM04B-PASS-(*)	BM04B-PASS-1-(*)	6.0	12.0	500
5	BM05B-PASS-(*)	BM05B-PASS-1-(*)	8.0	14.0	500
6	BM06B-PASS-(*)	BM06B-PASS-1-(*)	10.0	16.0	500
7	BM07B-PASS-(*)	BM07B-PASS-1-(*)	12.0	18.0	500
8	BM08B-PASS-(*)	BM08B-PASS-1-(*)	14.0	20.0	500
9	BM09B-PASS-(*)	BM09B-PASS-1-(*)	16.0	22.0	500
10	BM10B-PASS-(*)	BM10B-PASS-1-(*)	18.0	24.0	500
11	BM11B-PASS-(*)	BM11B-PASS-1-(*)	20.0	26.0	500
12	BM12B-PASS-(*)	BM12B-PASS-1-(*)	22.0	28.0	500
13	BM13B-PASS-(*)	BM13B-PASS-1-(*)	24.0	30.0	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: (*): TF...taping product

TFT...taping product with suction tape.

Side entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	SM02B-PASS-(*)	SM02B-PASS-1-(*)	2.0	8.0	1,000
3	SM03B-PASS-(*)	SM03B-PASS-1-(*)	4.0	10.0	1,000
4	SM04B-PASS-(*)	SM04B-PASS-1-(*)	6.0	12.0	1,000
5	SM05B-PASS-(*)	SM05B-PASS-1-(*)	8.0	14.0	1,000
6	SM06B-PASS-(*)	SM06B-PASS-1-(*)	10.0	16.0	1,000
7	SM07B-PASS-(*)	SM07B-PASS-1-(*)	12.0	18.0	1,000
8	SM08B-PASS-(*)	SM08B-PASS-1-(*)	14.0	20.0	1,000
9	SM09B-PASS-(*)	SM09B-PASS-1-(*)	16.0	22.0	1,000
10	SM10B-PASS-(*)	SM10B-PASS-1-(*)	18.0	24.0	1,000
11	SM11B-PASS-(*)	SM11B-PASS-1-(*)	20.0	26.0	1,000
12	SM12B-PASS-(*)	SM12B-PASS-1-(*)	22.0	28.0	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

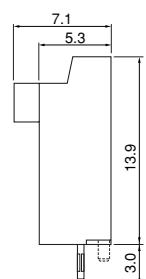
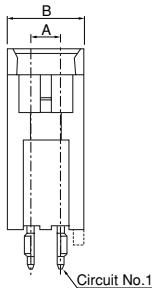
Note: (*): TB...taping product

TBT...taping product with suction tape.

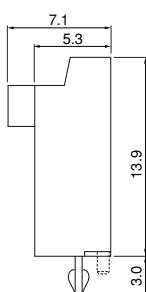
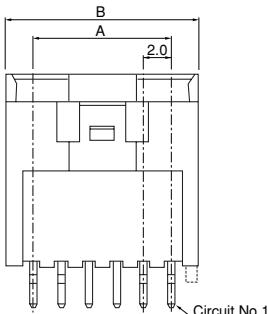
PA FAMILY SERIES

Shrouded header <High box type>

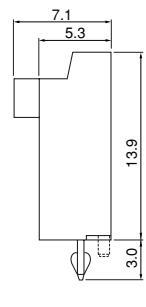
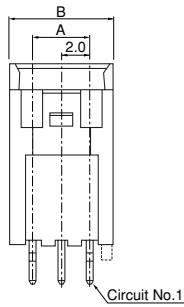
(2 circuits)



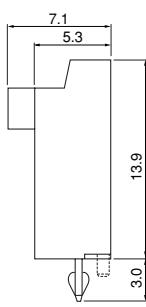
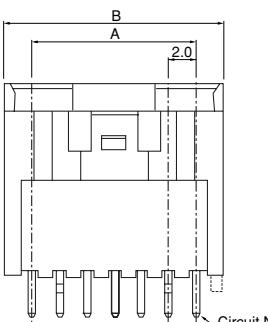
(5, 6 circuits)



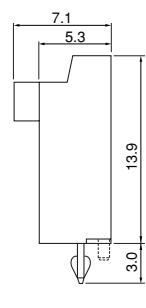
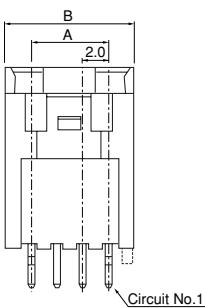
(3 circuits)



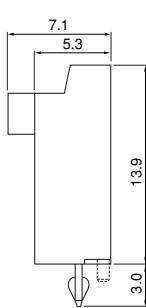
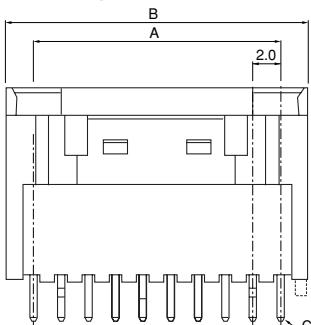
(7 to 9 circuits)



(4 circuits)



(10 to 12, 15 circuits)



Circuits	Model No.		Dimensions(mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	BH02B-PASK	BH02B-PASK-1	2.0	6.0	900
3	BH03B-PASK	BH03B-PASK-1	4.0	8.0	675
4	BH04B-PASK	BH04B-PASK-1	6.0	10.0	525
5	BH05B-PASK	BH05B-PASK-1	8.0	12.0	450
6	BH06B-PASK	BH06B-PASK-1	10.0	14.0	375
7	BH07B-PASK	BH07B-PASK-1	12.0	16.0	325
8	BH08B-PASK	BH08B-PASK-1	14.0	18.0	300
9	BH09B-PASK	BH09B-PASK-1	16.0	20.0	250
10	BH10B-PASK	BH10B-PASK-1	18.0	22.0	225
11	BH11B-PASK	BH11B-PASK-1	20.0	24.0	225
12	BH12B-PASK	BH12B-PASK-1	22.0	26.0	200
15	BH15B-PASK	BH15B-PASK-1	28.0	32.0	150

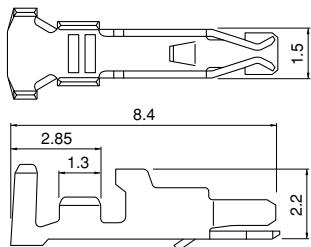
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

PA FAMILY SERIES /PA CONNECTOR (Crimp style Retainer mountable type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPA-001T-P0.5	0.13~0.33	26~22	0.9~1.5	10,000

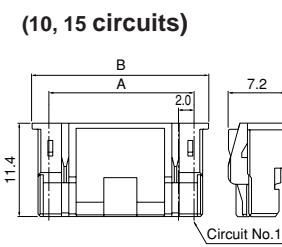
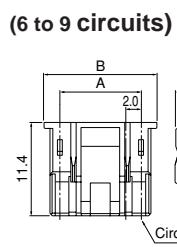
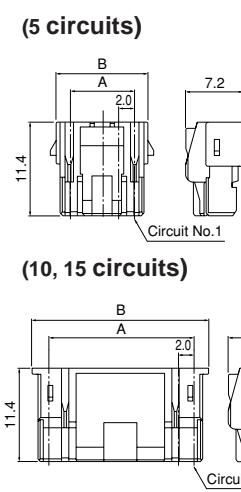
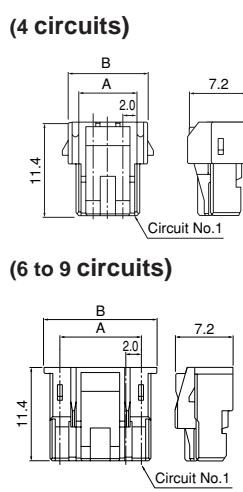
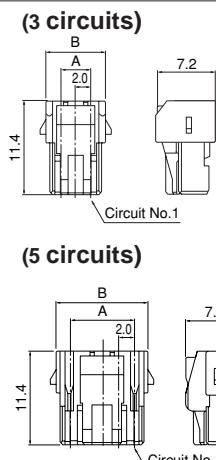
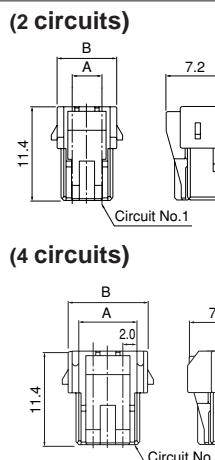
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPA-001T-P0.5	AP-K2N	MKS-L	MK/SPA-001-05	APLMK SPA001-05

Housing



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PARP-02V	2.0	5.4	1,000
3	PARP-03V	4.0	7.4	1,000
4	PARP-04V	6.0	9.4	1,000
5	PARP-05V	8.0	11.4	1,000
6	PARP-06V	10.0	14.0	1,000
7	PARP-07V	12.0	16.0	1,000
8	PARP-08V	14.0	18.0	1,000
9	PARP-09V	16.0	20.0	1,000
10	PARP-10V	18.0	22.0	1,000
*15	PARP-15V	28.0	32.0	500

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Note: *Marked product is not CSA approved.

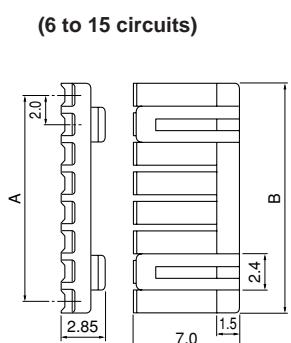
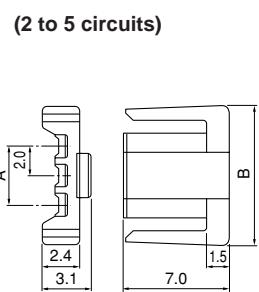
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PARP-02V-oo**

(blank)...natural (white)

R...red E...blue Y...yellow M...green

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PMS-02V-S	2.0	7.3	1,000
3	PMS-03V-S	4.0	9.3	1,000
4	PMS-04V-S	6.0	11.3	1,000
5	PMS-05V-S	8.0	13.3	1,000
6	PMS-06V-S	10.0	11.55	1,000
7	PMS-07V-S	12.0	13.55	1,000
8	PMS-08V-S	14.0	15.55	1,000
* 9	PMS-09V-S	16.0	17.55	1,000
* 10	PMS-10V-S	18.0	19.55	1,000
* 15	PMS-15V-S	28.0	29.55	1,000

Material

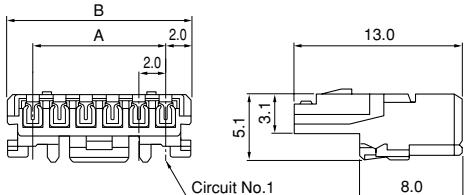
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

Note: *Marked products are not CSA approved.

PA FAMILY SERIES /PAF CONNECTOR (Insulation displacement type)

Receptacle



Circuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
2	02PAF-6S	2.0	6.0	1,000
3	03PAF-6S	4.0	8.0	1,000
4	04PAF-6S	6.0	10.0	500
5	05PAF-6S	8.0	12.0	500
6	06PAF-6S	10.0	14.0	500
7	07PAF-6S	12.0	16.0	500
8	08PAF-6S	14.0	18.0	250
9	09PAF-6S	16.0	20.0	250
10	10PAF-6S	18.0	22.0	250
11	11PAF-6S	20.0	24.0	250
12	12PAF-6S	22.0	26.0	250
13	13PAF-6S	24.0	28.0	250
14	14PAF-6S	26.0	30.0	250
15	15PAF-6S	28.0	32.0	250
*16	16PAF-6S	30.0	34.0	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural (white)

RoHS compliance

Note: *Marked product is not UL/CSA approved.

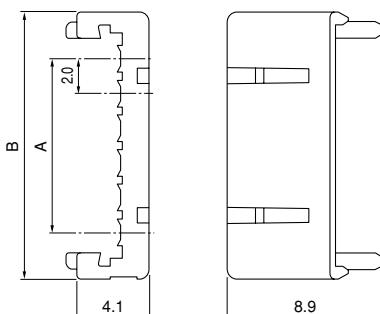
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02PAF-6S**

S...natural (white)

R...red E...blue M...green Y...yellow

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PAFS-02V-S	2.0	7.4	1,000
3	PAFS-03V-S	4.0	9.4	1,000
4	PAFS-04V-S	6.0	11.4	1,000
5	PAFS-05V-S	8.0	13.4	1,000
6	PAFS-06V-S	10.0	15.4	1,000
7	PAFS-07V-S	12.0	17.4	1,000
8	PAFS-08V-S	14.0	19.4	1,000
* 9	PAFS-09V-S	16.0	21.4	1,000
*10	PAFS-10V-S	18.0	23.4	1,000
*11	PAFS-11V-S	20.0	25.4	1,000
*12	PAFS-12V-S	22.0	27.4	1,000
*13	PAFS-13V-S	24.0	29.4	1,000
*14	PAFS-14V-S	26.0	31.4	1,000
*15	PAFS-15V-S	28.0	33.4	1,000

Material

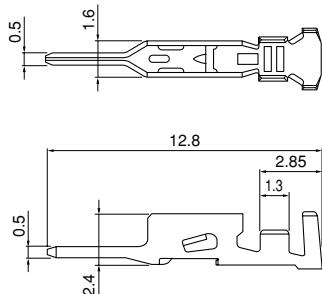
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

Note: *Marked products are not UL/CSA approved.

PA FAMILY SERIES /PAL CONNECTOR (Wire-to-wire type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPAL-001T-P0.5	0.13~0.33	26~22	1.0~1.5	10,000
SPAL-002T-P0.5	0.08~0.21	28~24	0.9~1.5	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

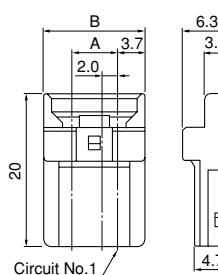
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPAL-001T-P0.5	AP-K2N	MKS-L	MK/SPAL-001-05	APLMK SPAL001-05
		—	—	—
SPAL-002T-P0.5	AP-K2N	MKS-L	MK/SPAL-002-05	APLMK SPAL002-05
		—	—	—

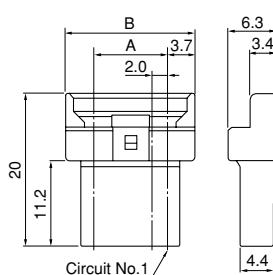
Housing

Without panel locks

(2 to 5 circuits)



(6 to 8 circuits)



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PALR-02VF	2.0	9.4	1,000
3	PALR-03VF	4.0	11.4	1,000
4	PALR-04VF	6.0	13.4	1,000
5	PALR-05VF	8.0	15.4	1,000
6	PALR-06VF	10.0	17.4	1,000
7	PALR-07VF	12.0	19.4	1,000
8	PALR-08VF	14.0	21.4	1,000

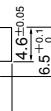
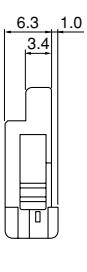
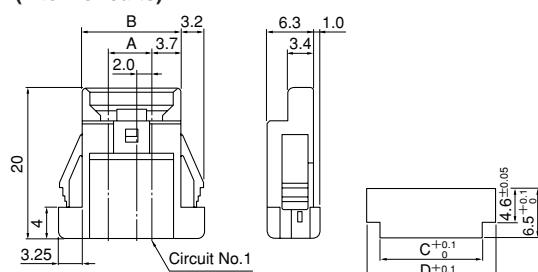
Material

PA 66, UL94V-0, natural (white)

RoHS compliance

With panel locks

(2 to 4 circuits)



Circuits	Model No.	Dimensions(mm)				Q'ty / bag
		A	B	C	D	
2	PALR-02V	2.0	9.4	9.8	13.4	1,000
3	PALR-03V	4.0	11.4	11.8	15.4	1,000
4	PALR-04V	6.0	13.4	13.8	17.4	1,000
6	PALR-06V	10.0	17.4	19.8	21.4	1,000
7	PALR-07V	12.0	19.4	21.8	23.4	1,000
8	PALR-08V	14.0	21.4	23.8	25.4	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

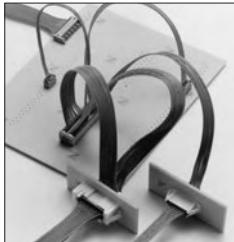
ex. PALR-02V(F)-oo

(blank)...natural (white)

R...red E...blue M...green Y...yellow

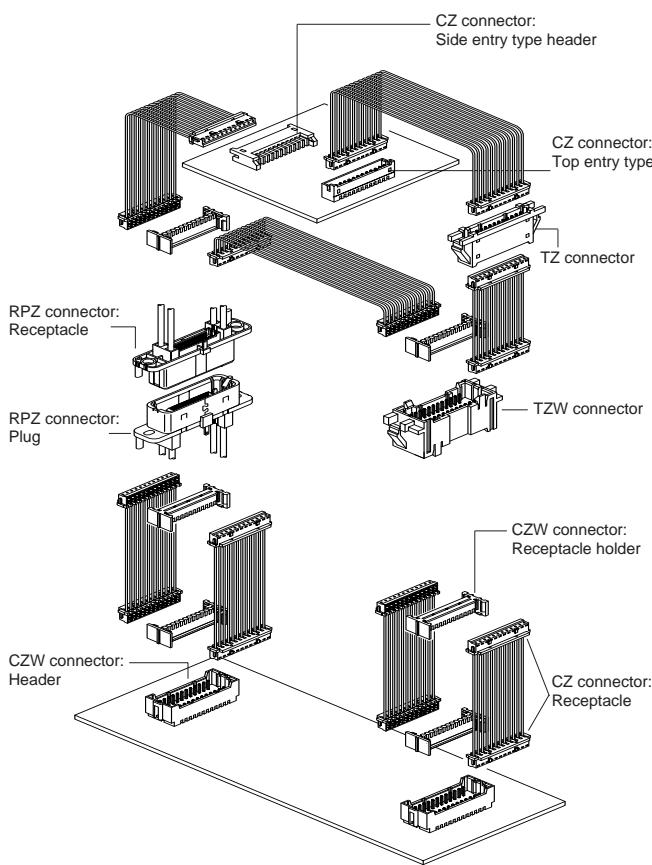
Retainer

Retainers are interchangeable with those of the PA crimp style retainer mountable type.



CZ FAMILY SERIES/CZ・CZW・CZH・CZHW・TZ・TZW

1.5mm pitch/Disconnectable Insulation displacement connectors



* CZ connector used for the harness shown in the above-mentioned figure can be replaced to CZH connector.

Based upon the 1.5mm pitch CZ connectors, the CZ family connectors have been expanded to meet the requirements of high density packaging. The CZW connector holder allows dual-row wire-to-board connection using the CZ receptacles, while the TZ (single-row) or TZW (dual-row) allows wire-to-wire connection, also using the CZ receptacles.

CZ connector

- Distortion resistant construction
- Compact and low profile

CZW connector

- Low insertion force
- Locking construction

CZH connector

- Housing lance
- Intarchangeability

TZ/TZW connector

- The TZ connector is applicable to single-row connection, while the TZW connector is for dual-row connection.
- Applicable to wide range of panel thickness
- The design of the panel lock part does not allow the wires to be caught there before mounting on the panel.

Standards

■ Recognized E60389

■ Certified LR20812

Specifications

Item	Series	CZ・CZW connector	CZH・CZHW connector	TZ・TZW connector
Current rating		2A AC・DC (AWG # 26)		
Voltage rating			100V AC, DC	
Temperature rise			−25°C ~ +85°C (including temperature rise)	
Contact resistance		Initial value / 10mΩ max. After environmental testing / 20mΩ max.		Initial value / 20mΩ max. After environmental testing / 40mΩ max.
Insulation resistance			500MΩ min	
Withstanding voltage			500VAC/minute	
Applicable wire		UL10272 (Contact JST for other UL style wires.) AWG#28, #26 Conductor / 7-strands, tincoated annealed copper Insulation O.D. / 0.7~0.83mm	AWG # 28~# 26	—
Applicable PC board thickness			1.6mm	—
Applicable panel thickness			—	0.5~2.0mm

* RoHS compliant products are published.

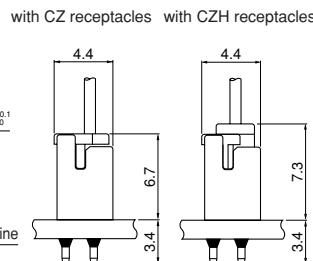
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

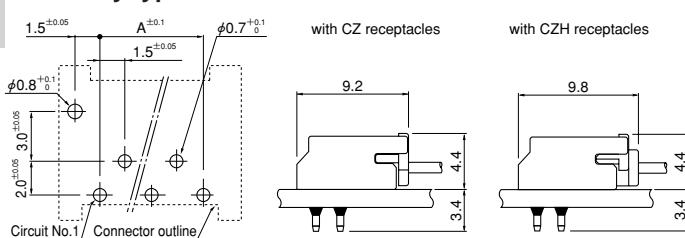
PC board layout (viewed from component side) and Assembly layout

<CZ connector through-hole type>

Top entry type



Side entry type



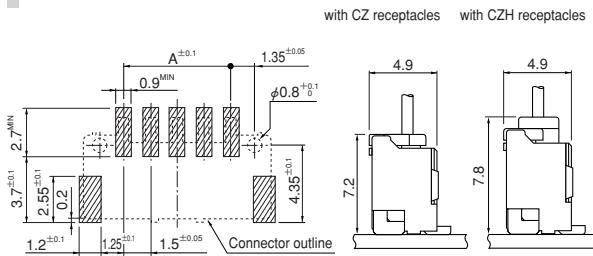
Note:1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

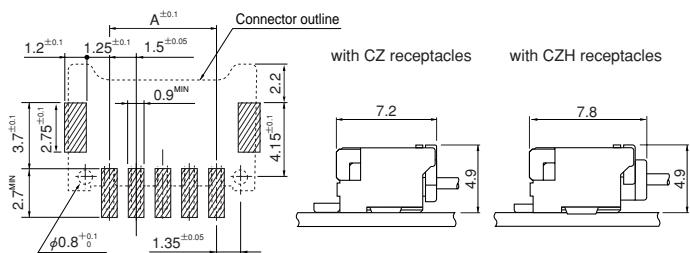
CZ FAMILY SERIES / CZ • CZW • CZH • CZHW • TZ • TZW

<CZ connector SMT type>

Top entry type

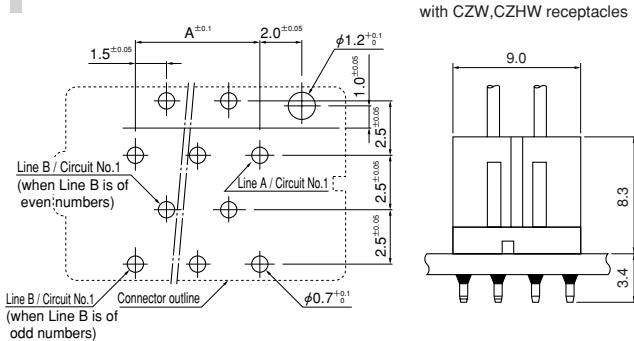


Side entry type

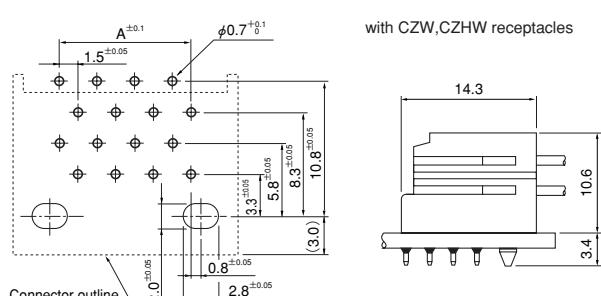


<CZW connector through-hole type>

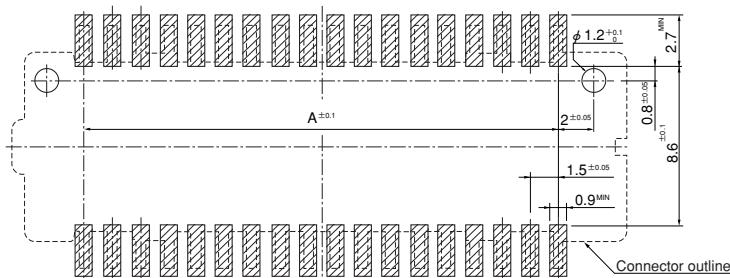
Top entry type



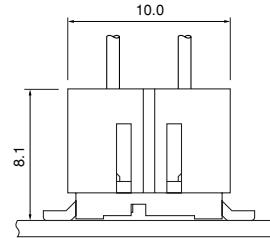
Side entry type



<CZW connector SMT type>



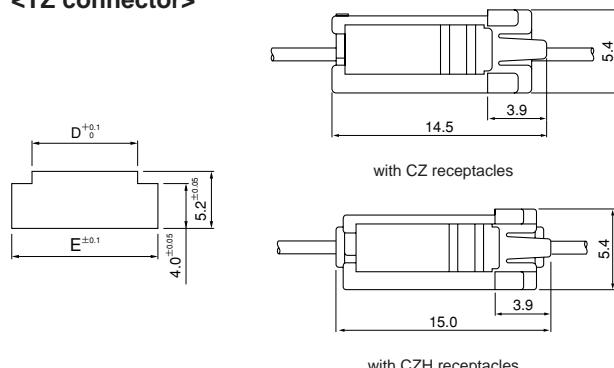
with CZHW receptacles



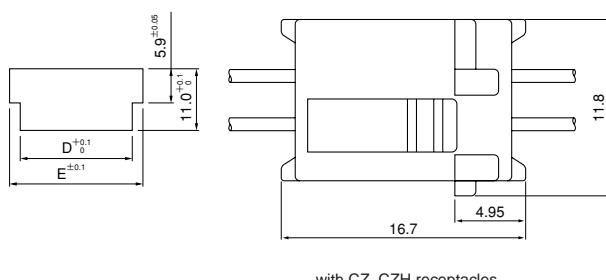
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

<TZ connector>



<TZW connector>



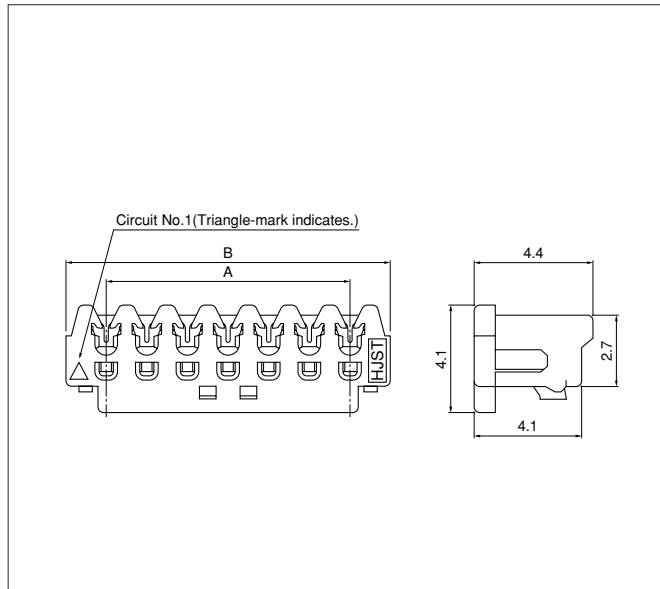
with CZ, CZH receptacles

D,E dimensions: Refer to TZ connector (Until for wire-to-wire connection).

D,E dimensions: Refer to TZW connector (Dual-row until for wire-to-wire connection).

CZ FAMILY SERIES / CZ • CZW • CZH • CZHW • TZ • TZW

CZ connector receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
2	02CZ-6H	02CZ-6Y	1.5	4.5	2,000
3	03CZ-6H	03CZ-6Y	3.0	6.0	2,000
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
5	05CZ-6H	05CZ-6Y	6.0	9.0	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
7	07CZ-6H	07CZ-6Y	9.0	12.0	2,000
8	08CZ-6H	08CZ-6Y	10.5	13.5	2,000
9	09CZ-6H	09CZ-6Y	12.0	15.0	1,000
10	10CZ-6H	10CZ-6Y	13.5	16.5	1,000
11	11CZ-6H	11CZ-6Y	15.0	18.0	1,000
12	12CZ-6H	12CZ-6Y	16.5	19.5	1,000
13	13CZ-6H	13CZ-6Y	18.0	21.0	1,000
14	14CZ-6H	14CZ-6Y	19.5	22.5	1,000
15	15CZ-6H	15CZ-6Y	21.0	24.0	1,000
16	16CZ-6H	16CZ-6Y	22.5	25.5	1,000
17	17CZ-6H	17CZ-6Y	24.0	27.0	1,000
18	18CZ-6H	18CZ-6Y	25.5	28.5	1,000
19	19CZ-6H	19CZ-6Y	27.0	30.0	1,000
20	20CZ-6H	20CZ-6Y	28.5	31.5	1,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)

Housing: Glass-filled PA 66, UL94V-0

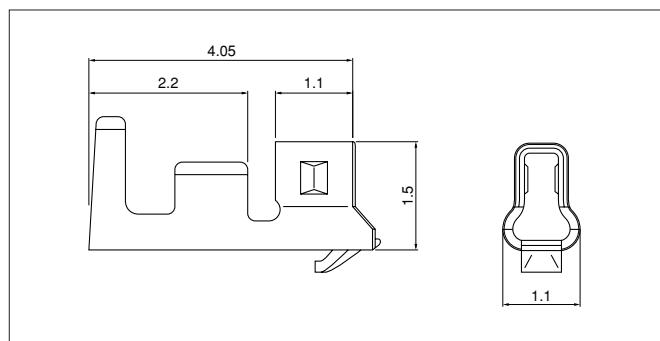
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CZ-6H**

Y...yellow H...natural (grayish color)

CZH connector Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

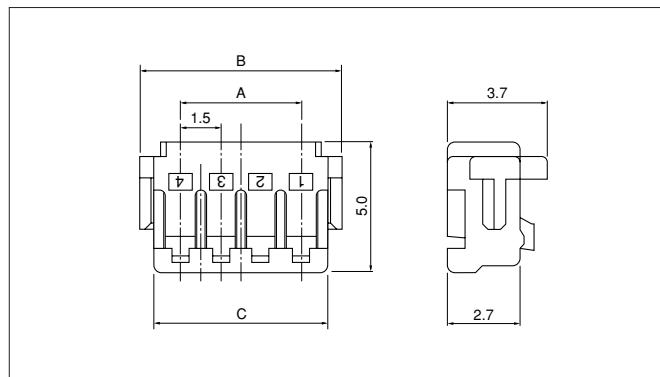
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05

CZH connector Housing



Circuits	Model No.	Dimensions(mm)			Q'ty / box
		A	B	C	
2	CZHR-02V-S	1.5	4.5	3.5	1,000
3	CZHR-03V-S	3.0	6.0	5.0	1,000
4	CZHR-04V-S	4.5	7.5	6.5	1,000
5	CZHR-05V-S	6.0	9.0	8.0	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
7	CZHR-07V-S	9.0	12.0	11.0	1,000
8	CZHR-08V-S	10.5	13.5	12.5	1,000
9	CZHR-09V-S	12.0	15.0	14.0	1,000
10	CZHR-10V-S	13.5	16.5	15.5	1,000
11	CZHR-11V-S	15.0	18.0	17.0	1,000
12	CZHR-12V-S	16.5	19.5	18.5	1,000
13	CZHR-13V-S	18.0	21.0	20.0	1,000
14	CZHR-14V-S	19.5	22.5	21.5	1,000
15	CZHR-15V-S	21.0	24.0	23.0	1,000
16	CZHR-16V-S	22.5	25.5	24.5	1,000
17	CZHR-17V-S	24.0	27.0	26.0	1,000
19	CZHR-19V-S	27.0	30.0	29.0	1,000
20	CZHR-20V-S	28.5	31.5	30.5	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

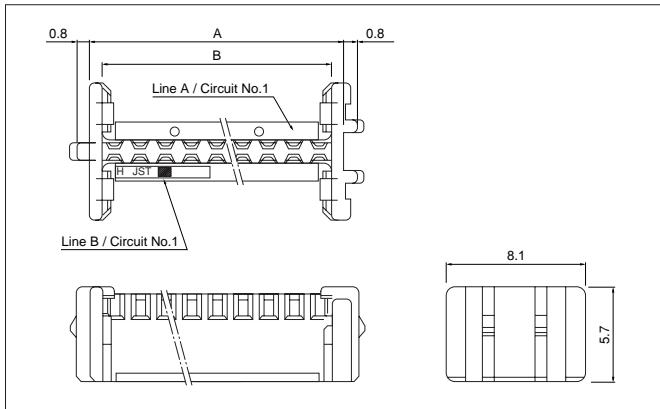
ex. **CZHR-02V-S**

S...natural (white)

K...black H...gray Y...yellow

CZ FAMILY SERIES / CZ • CZW • CZH • CZHW • TZ • TZW

CZW connector holder

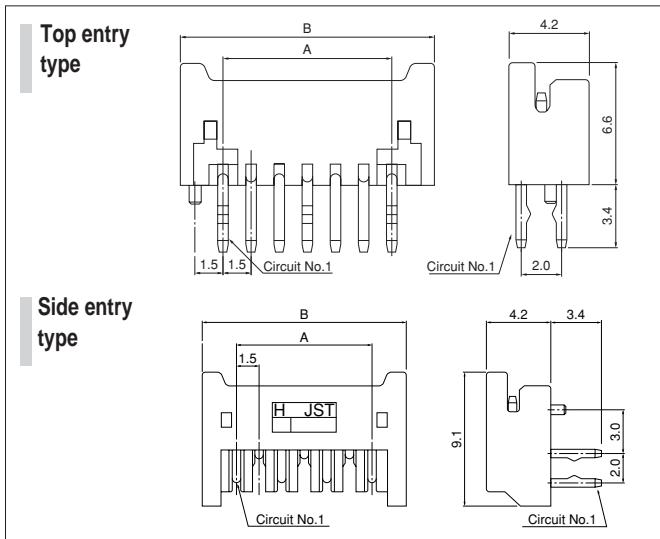


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
16	CZWH-16-S	14.9	13.5	1,000
18	CZWH-18-S	16.4	15.0	1,000
20	CZWH-20-S	17.9	16.5	1,000
22	CZWH-22-S	19.4	18.0	1,000
24	CZWH-24-S	20.9	19.5	1,000
26	CZWH-26-S	22.4	21.0	1,000
28	CZWH-28-S	23.9	22.5	1,000
30	CZWH-30-S	25.4	24.0	1,000
32	CZWH-32-S	26.9	25.5	1,000
34	CZWH-34-S	28.4	27.0	1,000
36	CZWH-36-S	29.9	28.5	1,000
38	CZWH-38-S	31.4	30.0	1,000
40	CZWH-40-S	32.9	31.5	1,000

Material
PBT, UL94V-0, natural (white)

RoHS compliance

CZ connector through-hole type shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type	Side entry type	A	B	
2	B02B-CZHK-B-1	S02B-CZHK-B-1	1.5	6.0	2,072
3	B03B-CZHK-B-1	S03B-CZHK-B-1	3.0	7.5	1,624
4	B04B-CZHK-B-1	S04B-CZHK-B-1	4.5	9.0	1,344
5	B05B-CZHK-B-1	S05B-CZHK-B-1	6.0	10.5	840
6	B06B-CZHK-B-1	S06B-CZHK-B-1	7.5	12.0	720
7	B07B-CZHK-B-1	S07B-CZHK-B-1	9.0	13.5	640
8	B08B-CZHK-B-1	S08B-CZHK-B-1	10.5	15.0	560
9	B09B-CZHK-B-1	S09B-CZHK-B-1	12.0	16.5	520
10	B10B-CZHK-B-1	S10B-CZHK-B-1	13.5	18.0	480
11	B11B-CZHK-B-1	S11B-CZHK-B-1	15.0	19.5	440
12	B12B-CZHK-B-1	S12B-CZHK-B-1	16.5	21.0	400
13	B13B-CZHK-B-1	S13B-CZHK-B-1	18.0	22.5	360
14	B14B-CZHK-B-1	S14B-CZHK-B-1	19.5	24.0	360
15	B15B-CZHK-B-1	S15B-CZHK-B-1	21.0	25.5	320
16	B16B-CZHK-B-1	S16B-CZHK-B-1	22.5	27.0	448
17	B17B-CZHK-B-1	S17B-CZHK-B-1	24.0	28.5	392
18	B18B-CZHK-B-1	S18B-CZHK-B-1	25.5	30.0	392
19	B19B-CZHK-B-1	S19B-CZHK-B-1	27.0	31.5	392
20	B20B-CZHK-B-1	S20B-CZHK-B-1	28.5	33.0	336

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)

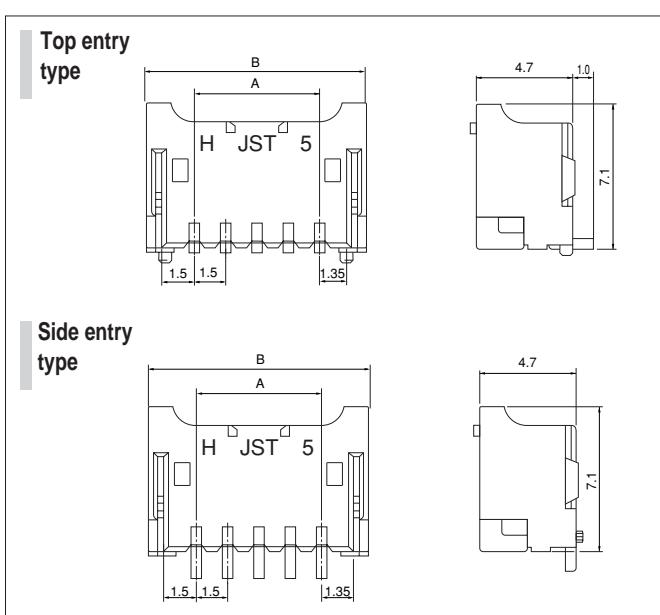
Note: Models B()B-CZHK-B are the headers without the boss.

Note: Models S()B-CZHK-B are the headers without the boss.

RoHS compliance

This product displays (LF)(SN) on a label.

CZ connector SMT type shrouded header



Circuits	Model No.		Dimensions(mm)		Q'ty / box
	Top entry type	Side entry type	A	B	
2	BM02B-CZSS-1-TF	SM02B-CZSS-1-TB	1.5	6.0	800
4	BM04B-CZSS-1-TF	SM04B-CZSS-1-TB	4.5	9.0	800
5	BM05B-CZSS-1-TF	SM05B-CZSS-1-TB	6.0	10.5	800
6	BM06B-CZSS-1-TF	—	7.5	12.0	800
8	BM08B-CZSS-1-TF	—	10.5	15.0	800
10	BM10B-CZSS-1-TF	SM10B-CZSS-1-TB	13.5	18.0	800
13	BM13B-CZSS-1-TF	SM13B-CZSS-1-TB	18.0	22.5	800
14	BM14B-CZSS-1-TF	—	19.5	24.0	800
15	BM15B-CZSS-1-TF	—	21.0	25.5	800
16	BM16B-CZSS-1-TF	SM16B-CZSS-1-TB	22.5	27.0	800
17	BM17B-CZSS-1-TF	—	24.0	28.5	800
20	BM20B-CZSS-1-TF	—	28.5	33.0	800

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA, UL94V-0, natural (ivory)

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Note: Models B()B-CZSS-TF are the headers without the boss.

Note: Models SM()B-CZSS-TF are the headers without the boss.

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

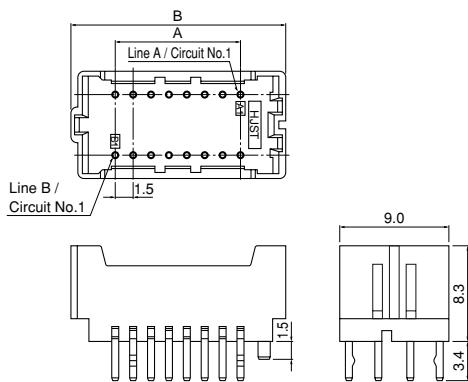
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-CZSS-1-TF** H...natural (ivory) H...gray

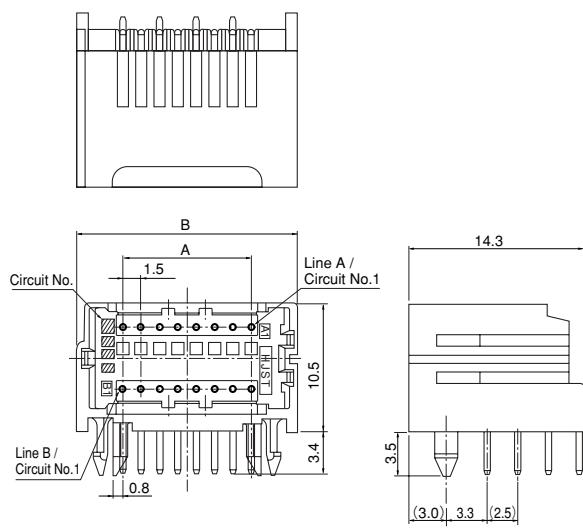
CZ FAMILY SERIES / CZ • CZW • CZH • CZHW • TZ • TZW

CZW connector through-hole type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
16	B16B-CZWHK-B-1	—	10.5	18.0	420	—
18	B18B-CZWHK-B-1	—	12.0	19.5	385	—
20	B20B-CZWHK-B-1	S20B-CZWHS-B-1	13.5	21.0	350	280
22	B22B-CZWHK-B-1	—	15.0	22.5	315	—
24	B24B-CZWHK-B-1	—	16.5	24.0	315	—
26	B26B-CZWHK-B-1	S26B-CZWHS-B-1	18.0	25.5	280	224
28	B28B-CZWHK-B-1	—	19.5	27.0	280	—
30	B30B-CZWHK-B-1	—	21.0	28.5	245	—
32	B32B-CZWHK-B-1	—	22.5	30.0	245	—
34	B34B-CZWHK-B-1	—	24.0	31.5	245	—
36	B36B-CZWHK-B-1	—	25.5	33.0	210	—
38	B38B-CZWHK-B-1	—	27.0	34.5	210	—
40	B40B-CZWHK-B-1	S40B-CZWHS-B-1	28.5	36.0	210	168

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)

Note: Models B()B-CZWHK-B are the headers without the boss.

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

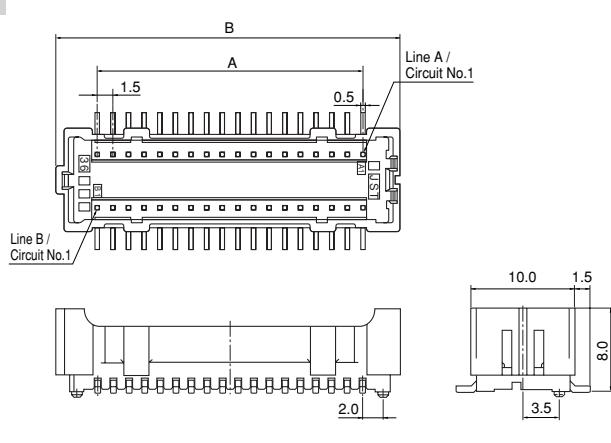
ex. **B16B-CZWHK-B-1**

H...natural (grayish color)

Y...yellow

CZW connector SMT type shrouded header

Top entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	A	B	A	B	
36	BM36B-CZWSS-1-TF	—	25.5	33.0	300
40	BM40B-CZWSS-1-TF	—	28.5	36.0	300

Material and Finish

Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA, UL94V-0, natural (ivory)

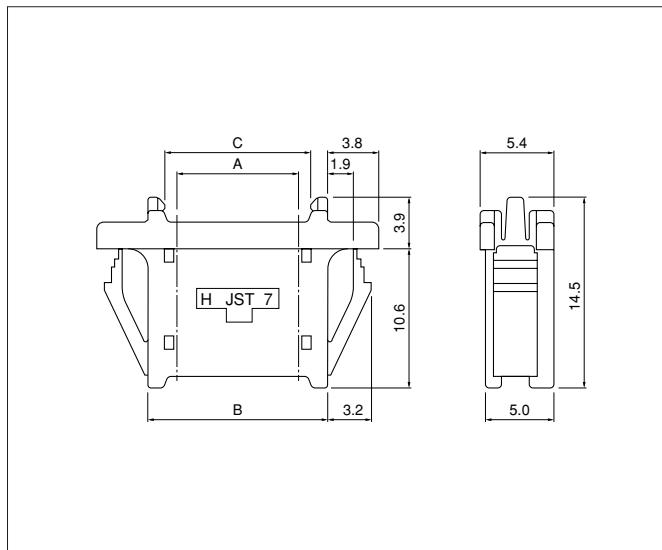
Note: Models BM()B-CZWSS-TF are the headers without the boss.

RoHS compliance

This product displays (LF)(SN) on a label.

CZ FAMILY SERIES / CZ • CZW • CZH • CZHW • TZ • TZW

TZ connector (Unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Q'ty / box
		A	B	C	D	E	
2	BU02P-TZ-S	1.5	5.9	3.5	6.3	9.9	500
3	BU03P-TZ-S	3.0	7.4	5.0	7.8	11.4	500
4	BU04P-TZ-S	4.5	8.9	6.5	9.3	12.9	500
5	BU05P-TZ-S	6.0	10.4	8.0	10.8	14.4	500
6	BU06P-TZ-S	7.5	11.9	9.5	12.3	15.9	250
7	BU07P-TZ-S	9.0	13.4	11.0	13.8	17.4	250
8	BU08P-TZ-S	10.5	14.9	12.5	15.3	18.9	250
9	BU09P-TZ-S	12.0	16.4	14.0	16.8	20.4	250
10	BU10P-TZ-S	13.5	17.9	15.5	18.3	21.9	250
11	BU11P-TZ-S	15.0	19.4	17.0	19.8	23.4	250
12	BU12P-TZ-S	16.5	20.9	18.5	21.3	24.9	250
13	BU13P-TZ-S	18.0	22.4	20.0	22.8	26.4	250
14	BU14P-TZ-S	19.5	23.9	21.5	24.3	27.9	250
15	BU15P-TZ-S	21.0	25.4	23.0	25.8	29.4	250
16	BU16P-TZ-S	22.5	26.9	24.5	27.3	30.9	250
17	BU17P-TZ-S	24.0	28.4	26.0	28.8	32.4	250
18	BU18P-TZ-S	25.5	29.9	27.5	30.3	33.9	150
19	BU19P-TZ-S	27.0	31.4	29.0	31.8	35.4	150
20	BU20P-TZ-S	28.5	32.9	30.5	33.3	36.9	100

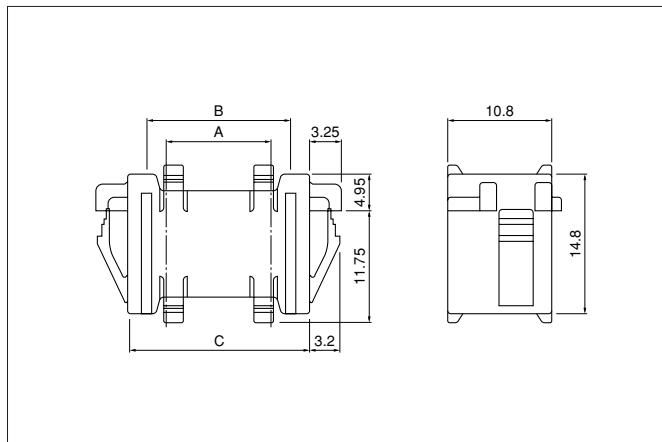
Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

TZW connector (Dual-row unit for wire-to-wire connection)



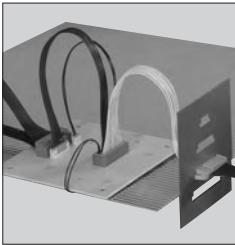
Circuits	Model No.	Dimensions (mm)					Q'ty / box
		A	B	C	D	E	
16	BU16P-TZW-S	10.5	15.0	19.0	19.4	23.0	160
18	BU18P-TZW-S	12.0	16.5	20.5	20.9	24.5	140
20	BU20P-TZW-S	13.5	18.0	22.0	22.4	26.0	140
22	BU22P-TZW-S	15.0	19.5	23.5	23.9	27.5	140
24	BU24P-TZW-S	16.5	21.0	25.0	25.4	29.0	120
26	BU26P-TZW-S	18.0	22.5	26.5	26.9	30.5	120
28	BU28P-TZW-S	19.5	24.0	28.0	28.4	32.0	120
30	BU30P-TZW-S	21.0	25.5	29.5	29.9	33.5	100
32	BU32P-TZW-S	22.5	27.0	31.0	31.4	35.0	100
34	BU34P-TZW-S	24.0	28.5	32.5	32.9	36.5	100
36	BU36P-TZW-S	25.5	30.0	34.0	34.4	38.0	100
38	BU38P-TZW-S	27.0	31.5	35.5	35.9	39.5	100
40	BU40P-TZW-S	28.5	33.0	37.0	37.4	41.0	80

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

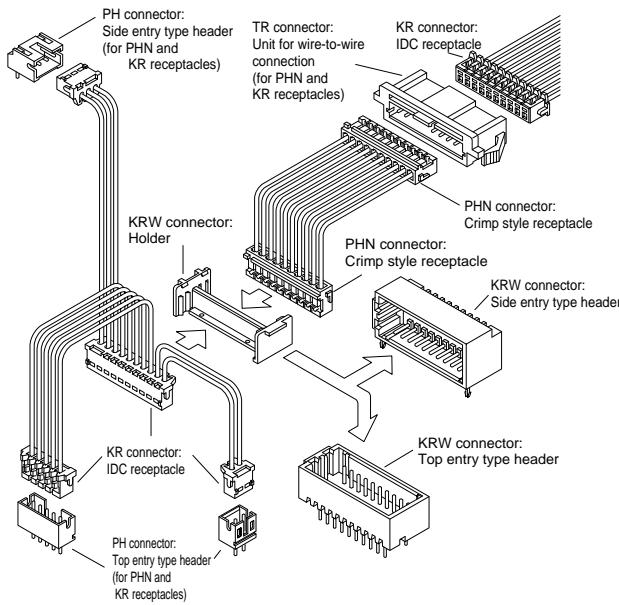
Housing: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.



KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement and Crimp style connectors



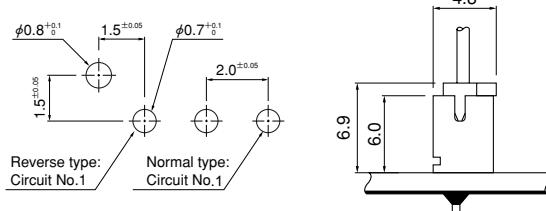
Based upon JST's field proven KR series connectors, the KR series family of connectors have been expanded to meet the requirements of high density packaging. The KRW connector allows double-row wire-to-board connection using either the KR or PHN connectors. Whilst the TR connector allows wire-to-wire connection, also using either the KR or PHN connectors.

PC board layout and Assembly layout

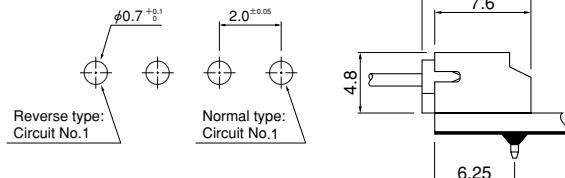
Single-row shrouded header

<Through-hole type(viewed from component side)>

Top entry type



Side entry type



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

- Multi-IDC-harnesses are possible

- Various types of connectors

- Cost reduction

- Two types of circuit layouts

Specifications

Item	Series	KRW connector	TR · TRW connector
Curren rating		1.0A AC,DC (AWG#26)	
Voltage rating		100V AC,DC	
Temperaure rise		-25°C to +85°C (including temperature rise)	
Contact rasistance		initial /10mΩmax. After environmental testing./20mΩmax.	
Insulation resistance		1,000MΩmin.	
Withstanding voltage		800V AC/minute	
Applicable connector		KR connector, CR connector, PHN connector	
Applicable PC board thickness		1.6mm	—
Applicable panel thickness		—	0.5mm~2.0mm

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

■ Recognized E60389

■ Certified LR20812

△ R75087: PH, PHN connectors

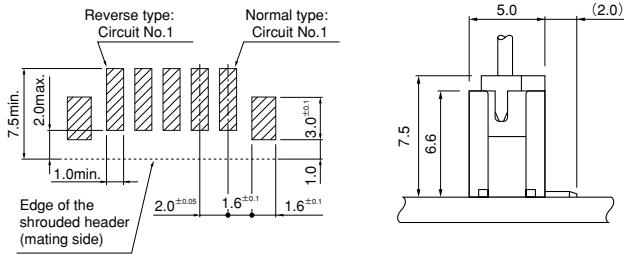
△ R75088: KR connector

△ R9851222: KRW connector

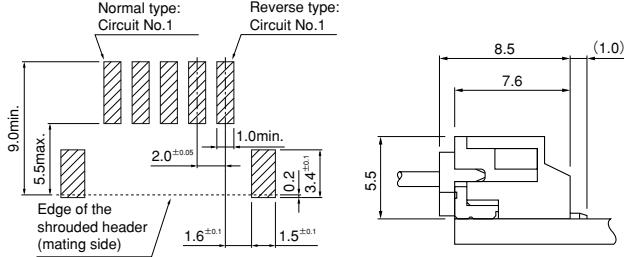
△ R9851223: TR connector

<SMTtype(viewed from soldering side)>

Top entry type



Side entry type



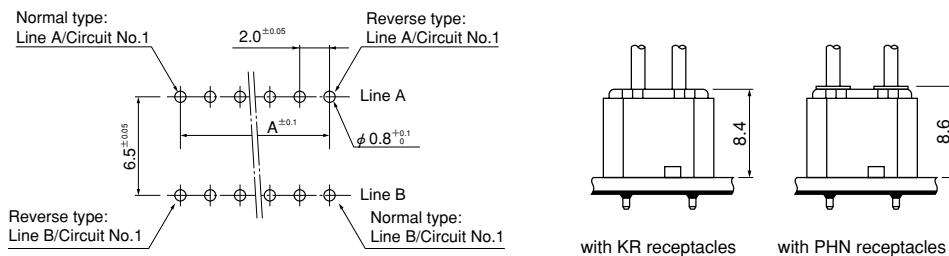
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

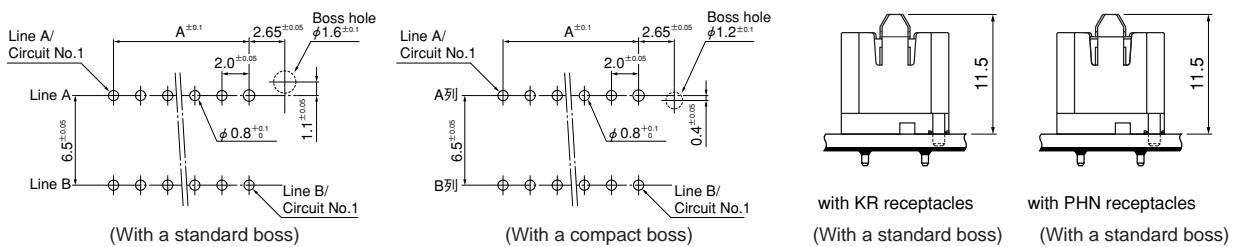
KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

**Double-row shrouded header
(viewed from component side)**

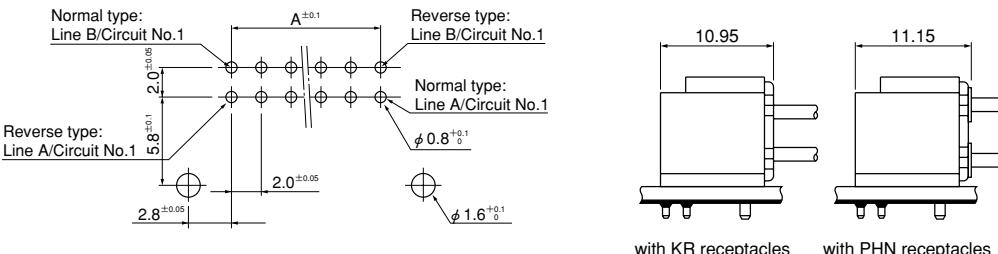
Top entry type



With locks



Side entry type

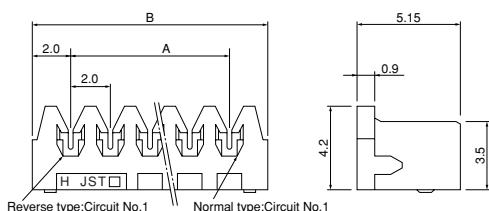


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

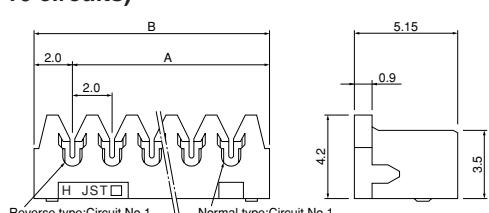
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Insulation displacement connector (Receptacle)

(2 to 12 circuits)



(13 to 16 circuits)



Circuits	Model No.		Dimensions (mm)	Q'ty / box
	Normal type	Reverse type		
2	02KR-6H-P	02KR-6H-PC	2.0	6.0
3	03KR-6H-P	03KR-6H-PC	4.0	8.0
4	04KR-6H-P	04KR-6H-PC	6.0	10.0
5	05KR-6H-P	05KR-6H-PC	8.0	12.0
6	06KR-6H-P	06KR-6H-PC	10.0	14.0
7	07KR-6H-P	07KR-6H-PC	12.0	16.0
8	08KR-6H-P	08KR-6H-PC	14.0	18.0
9	09KR-6H-P	09KR-6H-PC	16.0	20.0
10	10KR-6H-P	10KR-6H-PC	18.0	22.0
11	11KR-6H-P	11KR-6H-PC	20.0	24.0
12	12KR-6H-P	12KR-6H-PC	22.0	26.0
13	13KR-6H-P	13KR-6H-PC	24.0	28.0
14	14KR-6H-P	14KR-6H-PC	26.0	30.0
15	15KR-6H-P	15KR-6H-PC	28.0	32.0
16	16KR-6H-P	16KR-6H-PC	30.0	34.0

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: 2 to 12 circuits...PA 66, UL94V-0, gray
13 to 16 circuits...Glass-filled PA 66, UL94V-0, gray

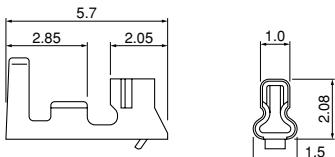
Applicable wire

UL1571, 1061(Contact JST for other UL styles.)
AWG#28, #26
Conductor / 7 strands, tin-plated annealed copper
Insulation O.D. / 0.9 to 1.0mm

RoHS compliance

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Crimp style connector (Contact)



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm ²	AWG#		
SPH-002T-P0.5L	0.08~0.22	28~24	0.8~1.5	8,000
Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				

RoHS compliance

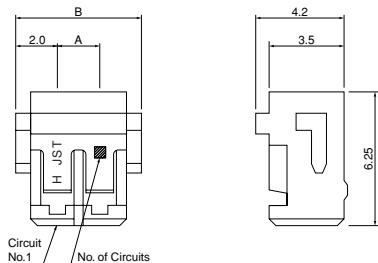
Note: SPH-002T-P0.5S is also available.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5L	AP-K2N	MKS-LS • MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L

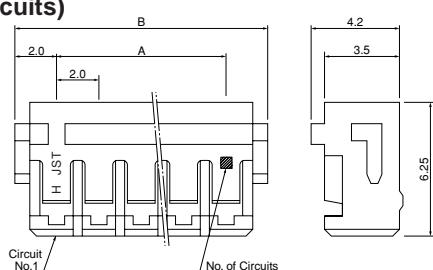
Note: *Strip-crimp applicator

Crimp style connector (Housing)

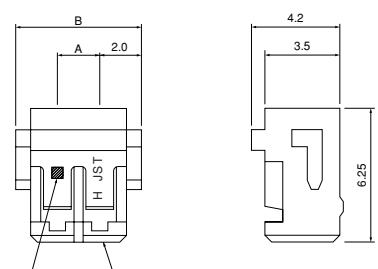
Normal type (2 circuits)



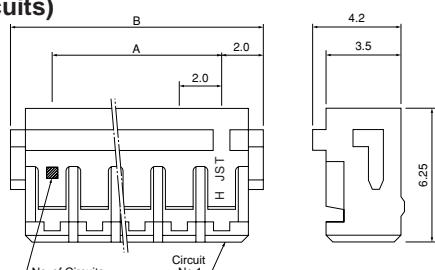
(3 to 16 circuits)



Reverse type (2 circuits)



(3 to 16 circuits)



Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	Normal type	Reverse type	A	B	
2	PHNR-02-H	PHNR-02C-H	2.0	6.0	1,000
3	PHNR-03-H	PHNR-03C-H	4.0	8.0	1,000
4	PHNR-04-H	PHNR-04C-H	6.0	10.0	1,000
5	PHNR-05-H	PHNR-05C-H	8.0	12.0	1,000
6	PHNR-06-H	PHNR-06C-H	10.0	14.0	1,000
7	PHNR-07-H	PHNR-07C-H	12.0	16.0	1,000
8	PHNR-08-H	PHNR-08C-H	14.0	18.0	1,000
9	PHNR-09-H	PHNR-09C-H	16.0	20.0	1,000
10	PHNR-10-H	PHNR-10C-H	18.0	22.0	1,000
11	PHNR-11-H	PHNR-11C-H	20.0	24.0	1,000
12	PHNR-12-H	PHNR-12C-H	22.0	26.0	1,000
13	PHNR-13-H	PHNR-13C-H	24.0	28.0	1,000
14	PHNR-14-H	PHNR-14C-H	26.0	30.0	1,000
15	PHNR-15-H	PHNR-15C-H	28.0	32.0	1,000
16	PHNR-16-H	PHNR-16C-H	30.0	34.0	1,000

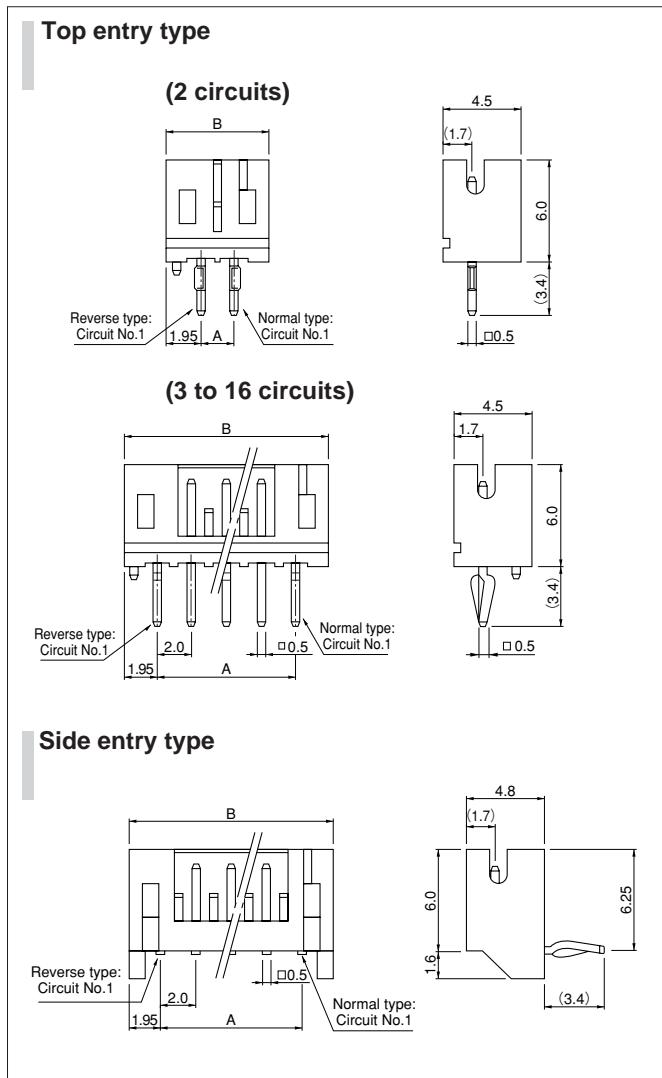
Material

PA 66, UL94V-0, gray

RoHS compliance

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Single-row shrouded header (Through-hole type)



Circuits	Normal type Model No.		Dimensions(mm)		Q'ty / box
	Top entry type (with a boss)	Side entry type	A	B	
2	B2B-PH-KBL-H	S2B-PH-KL	2.0	5.9	1,000
3	B3B-PH-KBL-H	S3B-PH-KL	4.0	7.9	1,000
4	B4B-PH-KBL-H	S4B-PH-KL	6.0	9.9	1,000
5	B5B-PH-KBL-H	S5B-PH-KL	8.0	11.9	1,000
6	B6B-PH-KBL-H	S6B-PH-KL	10.0	13.9	1,000
7	B7B-PH-KBL-H	S7B-PH-KL	12.0	15.9	500
8	B8B-PH-KBL-H	S8B-PH-KL	14.0	17.9	500
9	B9B-PH-KBL-H	S9B-PH-KL	16.0	19.9	500
10	B10B-PH-KBL-H	S10B-PH-KL	18.0	21.9	500
11	B11B-PH-KBL-H	S11B-PH-KL	20.0	23.9	500
12	B12B-PH-KBL-H	S12B-PH-KL	22.0	25.9	500
13	B13B-PH-KBL-H	S13B-PH-KL	24.0	27.9	250
14	B14B-PH-KBL-H	S14B-PH-KL	26.0	29.9	250
15	B15B-PH-KBL-H	S15B-PH-KL	28.0	31.9	250
16	B16B-PH-KBL-H	S16B-PH-KL	30.0	33.9	250

Circuits	Reverse type Model No.		Dimensions(mm)		Q'ty / box
	Top entry type (with a boss)	Side entry type	A	B	
2	B2B-PH-KBLC-H	S2B-PH-KLC-H	2.0	5.9	1,000
3	B3B-PH-KBLC-H	S3B-PH-KLC-H	4.0	7.9	1,000
4	B4B-PH-KBLC-H	S4B-PH-KLC-H	6.0	9.9	1,000
5	B5B-PH-KBLC-H	S5B-PH-KLC-H	8.0	11.9	1,000
6	B6B-PH-KBLC-H	S6B-PH-KLC-H	10.0	13.9	1,000
7	B7B-PH-KBLC-H	S7B-PH-KLC-H	12.0	15.9	500
8	B8B-PH-KBLC-H	S8B-PH-KLC-H	14.0	17.9	500
9	B9B-PH-KBLC-H	S9B-PH-KLC-H	16.0	19.9	500
10	B10B-PH-KBLC-H	S10B-PH-KLC-H	18.0	21.9	500
11	B11B-PH-KBLC-H	S11B-PH-KLC-H	20.0	23.9	500
12	B12B-PH-KBLC-H	S12B-PH-KLC-H	22.0	25.9	500
13	B13B-PH-KBLC-H	S13B-PH-KLC-H	24.0	27.9	250
14	B14B-PH-KBLC-H	S14B-PH-KLC-H	26.0	29.9	250
15	B15B-PH-KBLC-H	S15B-PH-KLC-H	28.0	31.9	250
16	B16B-PH-KBLC-H	S16B-PH-KLC-H	30.0	33.9	250

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.
Note: Top entry type headers without a boss are also available.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

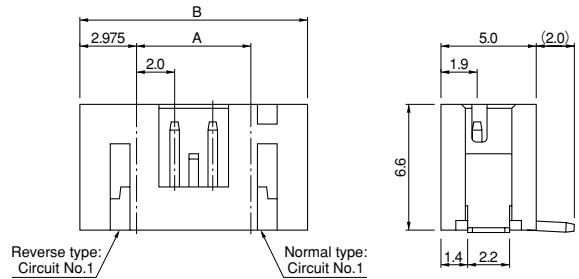
ex. **B2B-PH-KBLC-H**

H...gray S...white Y...yellow R...red N...brown
K...black (blank)...gray (normal side entry type only)

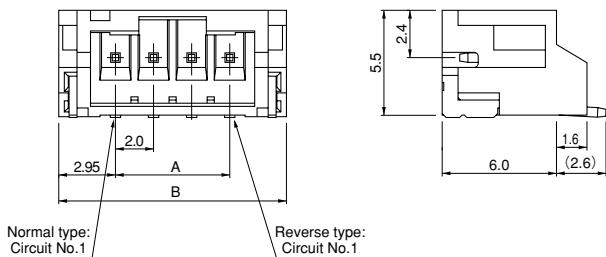
KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Single-row shrouded header (SMT type)

Top entry type



Side entry type



Circuits	Normal type Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B		
			Top entry type	Side entry type		
2	B2B-PH-SM4-TB	S2B-PH-SM4-TB	2.0	7.95	7.9	1,000
3	B3B-PH-SM4-TB	S3B-PH-SM4-TB	4.0	9.95	9.9	1,000
4	B4B-PH-SM4-TB	S4B-PH-SM4-TB	6.0	11.95	11.9	1,000
5	B5B-PH-SM4-TB	S5B-PH-SM4-TB	8.0	13.95	13.9	1,000
6	B6B-PH-SM4-TB	S6B-PH-SM4-TB	10.0	15.95	15.9	1,000
7	B7B-PH-SM4-TB	S7B-PH-SM4-TB	12.0	17.95	17.9	1,000
8	B8B-PH-SM4-TB	S8B-PH-SM4-TB	14.0	19.95	19.9	1,000
9	B9B-PH-SM4-TB	S9B-PH-SM4-TB	16.0	21.95	21.9	1,000
10	B10B-PH-SM4-TB	S10B-PH-SM4-TB	18.0	23.95	23.9	1,000
11	B11B-PH-SM4-TB	S11B-PH-SM4-TB	20.0	25.95	25.9	1,000
12	B12B-PH-SM4-TB	S12B-PH-SM4-TB	22.0	27.95	27.9	1,000
13	B13B-PH-SM4-TB	S13B-PH-SM4-TB	24.0	29.95	29.9	1,000
14	B14B-PH-SM4-TB	S14B-PH-SM4-TB	26.0	31.95	31.9	1,000
15	B15B-PH-SM4-TB	S15B-PH-SM4-TB	28.0	33.95	33.9	1,000
16	B16B-PH-SM4-TB	—	30.0	35.95	—	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA 6T, UL94V-0, natural (ivory)

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: Top entry type headers with suction tape are also available.

Circuits	Reverse type Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
			Top entry type	Side entry type	
2	B2B-PH-SM4C-TB	S2B-PH-SM4C-TB	2.0	7.9	1,000
3	B3B-PH-SM4C-TB	S3B-PH-SM4C-TB	4.0	9.9	1,000
4	B4B-PH-SM4C-TB	S4B-PH-SM4C-TB	6.0	11.9	1,000
5	B5B-PH-SM4C-TB	S5B-PH-SM4C-TB	8.0	13.9	1,000
6	B6B-PH-SM4C-TB	S6B-PH-SM4C-TB	10.0	15.9	1,000
7	B7B-PH-SM4C-TB	S7B-PH-SM4C-TB	12.0	17.9	1,000
8	B8B-PH-SM4C-TB	S8B-PH-SM4C-TB	14.0	19.9	1,000
9	B9B-PH-SM4C-TB	S9B-PH-SM4C-TB	16.0	21.9	1,000
10	B10B-PH-SM4C-TB	S10B-PH-SM4C-TB	18.0	23.9	1,000
11	B11B-PH-SM4C-TB	S11B-PH-SM4C-TB	20.0	25.9	1,000
12	B12B-PH-SM4C-TB	S12B-PH-SM4C-TB	22.0	27.9	1,000
13	B13B-PH-SM4C-TB	S13B-PH-SM4C-TB	24.0	29.9	1,000
14	B14B-PH-SM4C-TB	S14B-PH-SM4C-TB	26.0	31.9	1,000
15	B15B-PH-SM4C-TB	S15B-PH-SM4C-TB	28.0	33.9	1,000
16	B16B-PH-SM4C-TB	—	30.0	35.9	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA 6T, UL94V-0, natural (ivory)

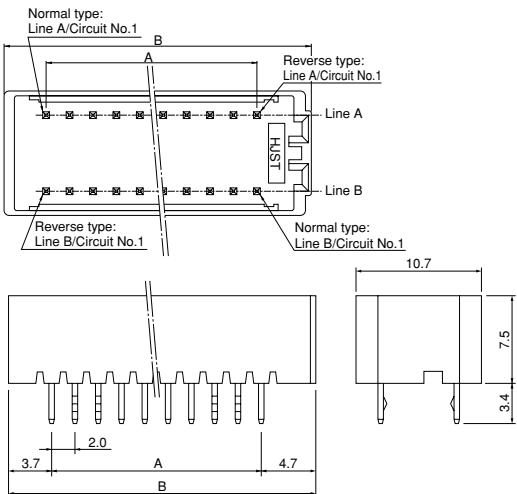
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

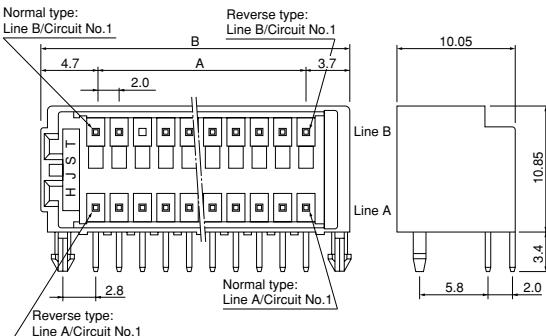
KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Double-row shrouded Header

Top entry type



Side entry type



Circuits	Model No.				Dimensions (mm)		Q'ty / box	
	Normal type		Reverse type		A	B	Top entry type	Side entry type
10	B10B-KRWHK	—	B10B-KRWHK-C	—	8.0	16.4	416	—
12	B12B-KRWHK	—	B12B-KRWHK-C	—	10.0	18.4	384	—
14	B14B-KRWHK	—	B14B-KRWHK-C	—	12.0	20.4	352	—
16	B16B-KRWHK	S16B-KRWHS	B16B-KRWHK-C	S16B-KRWHS-C	14.0	22.4	320	280
18	B18B-KRWHK	S18B-KRWHS	B18B-KRWHK-C	S18B-KRWHS-C	16.0	24.4	288	252
20	B20B-KRWHK	S20B-KRWHS	B20B-KRWHK-C	S20B-KRWHS-C	18.0	26.4	256	224
22	B22B-KRWHK	S22B-KRWHS	B22B-KRWHK-C	S22B-KRWHS-C	20.0	28.4	224	196
24	B24B-KRWHK	S24B-KRWHS	B24B-KRWHK-C	S24B-KRWHS-C	22.0	30.4	224	196
26	B26B-KRWHK	S26B-KRWHS	B26B-KRWHK-C	S26B-KRWHS-C	24.0	32.4	192	168
28	B28B-KRWHK	S28B-KRWHS	B28B-KRWHK-C	S28B-KRWHS-C	26.0	34.4	192	168
30	B30B-KRWHK	S30B-KRWHS	B30B-KRWHK-C	S30B-KRWHS-C	28.0	36.4	192	168
32	B32B-KRWHK	S32B-KRWHS	B32B-KRWHK-C	S32B-KRWHS-C	30.0	38.4	160	140

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance

This product displays (LF)(SN) on a label.

Note: 1. Top entry type headers with bosses or without clinched tails are also available.
2. The products listed above are supplied packed in tray.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

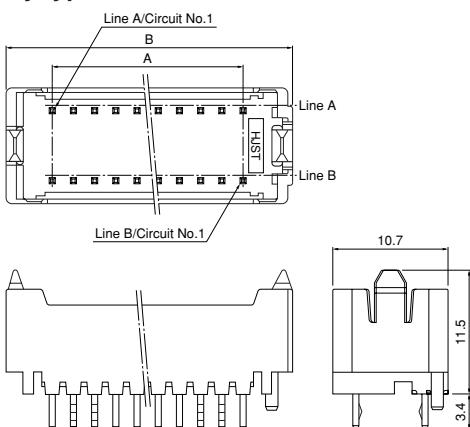
For availability, delivery and minimum order quantity, contact JST.

ex. B10B-KRWHK-()

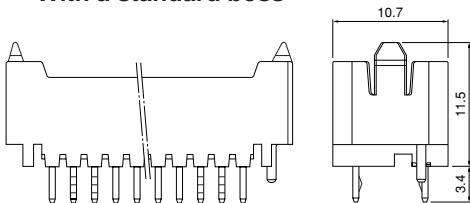
M...green H...gray N...brown

Double-row shrouded Header (with locks)

Top entry type



With a standard boss



With a compact boss

Circuits	Model No.			Dimensions (mm)		Q'ty / box	
	Top entry type			Without bosses	With a standard boss	A	B
10	B10B-KRWHK-F1	B10B-KRWHK-F1-1	B10B-KRWHK-F1-ID	8.0	17.0	364	
12	B12B-KRWHK-F1	B12B-KRWHK-F1-1	B12B-KRWHK-F1-ID	10.0	19.0	308	
14	B14B-KRWHK-F1	B14B-KRWHK-F1-1	B14B-KRWHK-F1-ID	12.0	21.0	280	
16	B16B-KRWHK-F1	B16B-KRWHK-F1-1	B16B-KRWHK-F1-ID	14.0	23.0	252	
18	B18B-KRWHK-F1	B18B-KRWHK-F1-1	B18B-KRWHK-F1-ID	16.0	25.0	252	
20	B20B-KRWHK-F1	B20B-KRWHK-F1-1	B20B-KRWHK-F1-ID	18.0	27.0	224	
22	B22B-KRWHK-F1	B22B-KRWHK-F1-1	B22B-KRWHK-F1-ID	20.0	29.0	196	
24	B24B-KRWHK-F1	B24B-KRWHK-F1-1	B24B-KRWHK-F1-ID	22.0	31.0	196	
26	B26B-KRWHK-F1	B26B-KRWHK-F1-1	B26B-KRWHK-F1-ID	24.0	33.0	168	
28	B28B-KRWHK-F1	B28B-KRWHK-F1-1	B28B-KRWHK-F1-ID	26.0	35.0	168	
30	B30B-KRWHK-F1	B30B-KRWHK-F1-1	B30B-KRWHK-F1-ID	28.0	37.0	168	
32	B32B-KRWHK-F1	B32B-KRWHK-F1-1	B32B-KRWHK-F1-ID	30.0	39.0	140	

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance

This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied packed in tray.

2. Not UL/CSA/TÜV approved.

3. The applicable holder is "KRWH-()()-1" only.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

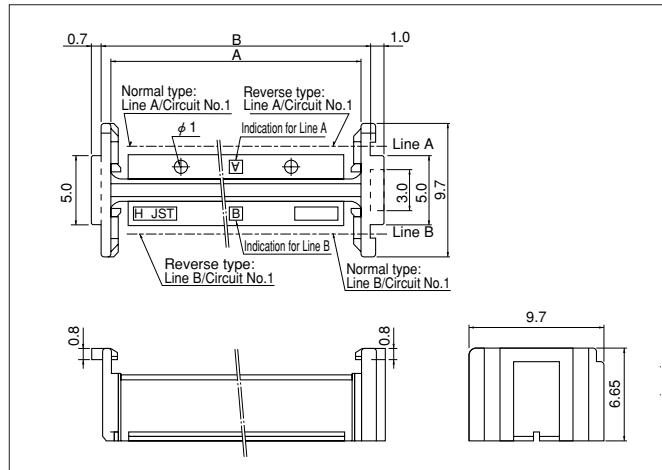
ex. B10B-KRWHK-F1-()

M...gray Y...yellow R...red N...brown

M...green...K...black

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

KRW connector Holder



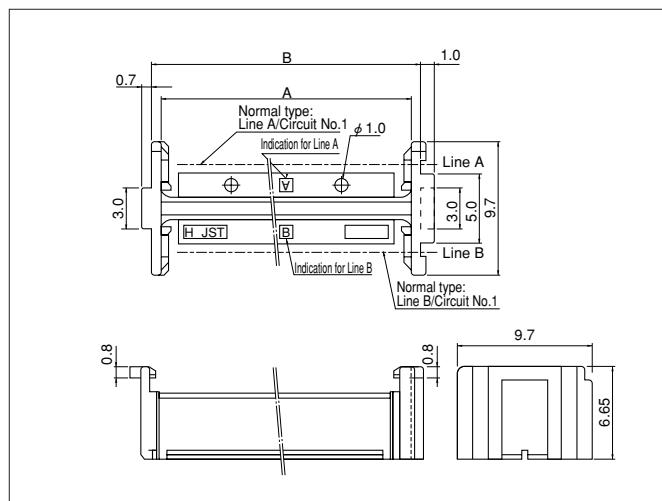
Circuits	Model No.		Dimensions (mm)	
	Normal type	Reverse type	A	B
10	KRWH-10-H	KRWH-10C-H	12.0	13.4
12	KRWH-12-H	KRWH-12C-H	14.0	15.4
14	KRWH-14-H	KRWH-14C-H	16.0	17.4
16	KRWH-16-H	KRWH-16C-H	18.0	19.4
18	KRWH-18-H	KRWH-18C-H	20.0	21.4
20	KRWH-20-H	KRWH-20C-H	22.0	23.4
22	KRWH-22-H	KRWH-22C-H	24.0	25.4
24	KRWH-24-H	KRWH-24C-H	26.0	27.4
26	KRWH-26-H	KRWH-26C-H	28.0	29.4
28	KRWH-28-H	KRWH-28C-H	30.0	31.4
30	KRWH-30-H	KRWH-30C-H	32.0	33.4
32	KRWH-32-H	KRWH-32C-H	34.0	35.4

Material

PA 66, UL94V-0, gray

RoHS compliance

KRW connector Holder (for header with locks)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
10	KRWH-10-H-1	12.0	13.4	1,000
12	KRWH-12-H-1	14.0	15.4	1,000
14	KRWH-14-H-1	16.0	17.4	1,000
16	KRWH-16-H-1	18.0	19.4	1,000
18	KRWH-18-H-1	20.0	21.4	1,000
20	KRWH-20-H-1	22.0	23.4	1,000
22	KRWH-22-H-1	24.0	25.4	1,000
24	KRWH-24-H-1	26.0	27.4	1,000
26	KRWH-26-H-1	28.0	29.4	1,000
28	KRWH-28-H-1	30.0	31.4	1,000
30	KRWH-30-H-1	32.0	33.4	1,000
32	KRWH-32-H-1	34.0	35.4	1,000

Material

PA 66, UL94V-0, gray

RoHS compliance

Note: 1. Not UL/CSA/TÜV approved.

2. The applicable header is "B()J-KRW()K-F1-()" only.

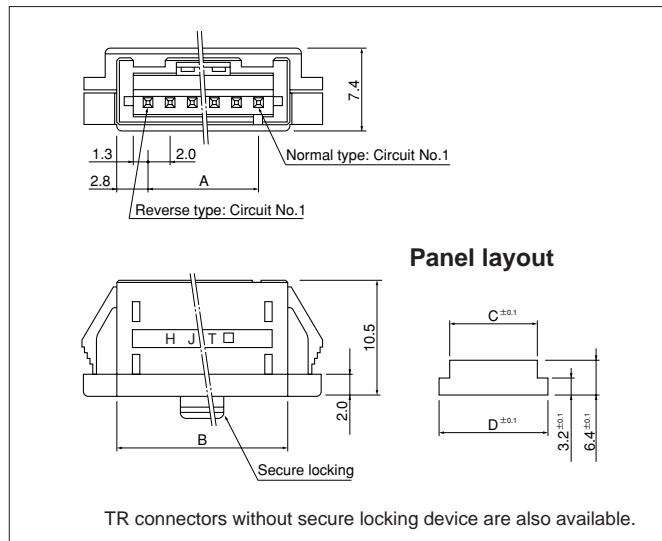
<For reference> As the color identification, the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. KRWH-10-H-1

H...gray Y...yellow R...red N...brown K...black S...natural

TR connector (Unit for wire-to-wire connection)



Circuits	Model No.		Dimensions (mm)				Q'ty / box
	Normal type	Reverse type	A	B	C	D	
2	BU02P-TR-P-H	BU02P-TR-PC-H	2.0	7.6	7.9	11.6	500
3	BU03P-TR-P-H	BU03P-TR-PC-H	4.0	9.6	9.9	13.6	500
4	BU04P-TR-P-H	BU04P-TR-PC-H	6.0	11.6	11.9	15.6	500
5	BU05P-TR-P-H	BU05P-TR-PC-H	8.0	13.6	13.9	17.6	250
6	BU06P-TR-P-H	BU06P-TR-PC-H	10.0	15.6	15.9	19.6	250
7	BU07P-TR-P-H	BU07P-TR-PC-H	12.0	17.6	18.0	21.6	200
8	BU08P-TR-P-H	BU08P-TR-PC-H	14.0	19.6	20.0	23.6	250
9	BU09P-TR-P-H	BU09P-TR-PC-H	16.0	21.6	22.0	25.6	250
10	BU10P-TR-P-H	BU10P-TR-PC-H	18.0	23.6	24.0	27.6	200
11	BU11P-TR-P-H	BU11P-TR-PC-H	20.0	25.6	26.0	29.6	200
12	BU12P-TR-P-H	BU12P-TR-PC-H	22.0	27.6	28.0	31.6	200
13	BU13P-TR-P-H	BU13P-TR-PC-H	24.0	29.6	30.0	33.6	150
14	BU14P-TR-P-H	BU14P-TR-PC-H	26.0	31.6	32.0	35.6	150
15	BU15P-TR-P-H	BU15P-TR-PC-H	28.0	33.6	34.0	37.6	150
16	BU16P-TR-P-H	BU16P-TR-PC-H	30.0	35.6	36.0	39.6	150

Material and Finish

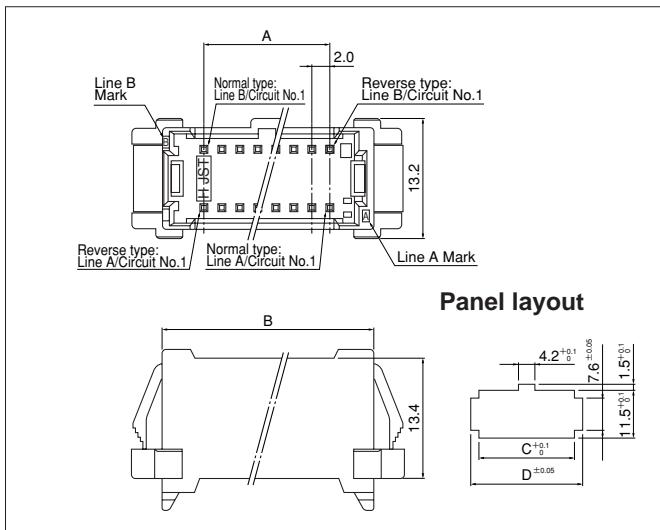
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, gray

RoHS compliance

This product displays (LF)(SN) on a label.

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

TRW connector (Unit for wire-to-wire connection)



Circuits	Model No.		Dimensions (mm)				Q'ty / box
	Normal type	Reverse type	A	B	C	D	
16	BU16P-TRW-P-H	BU16P-TRW-PC-H	14.0	23.5	23.9	27.5	100
18	BU18P-TRW-P-H	BU18P-TRW-PC-H	16.0	25.5	25.9	29.5	100
20	BU20P-TRW-P-H	BU20P-TRW-PC-H	18.0	27.5	27.9	31.5	50
22	BU22P-TRW-P-H	BU22P-TRW-PC-H	20.0	29.5	29.9	33.5	50
24	BU24P-TRW-P-H	BU24P-TRW-PC-H	22.0	31.5	31.9	35.5	50
26	BU26P-TRW-P-H	BU26P-TRW-PC-H	24.0	33.5	33.9	37.5	50
28	BU28P-TRW-P-H	BU28P-TRW-PC-H	26.0	35.5	35.9	39.5	50
30	BU30P-TRW-P-H	BU30P-TRW-PC-H	28.0	37.5	37.9	41.5	50
32	BU32P-TRW-P-H	BU32P-TRW-PC-H	30.0	39.5	39.9	43.5	50

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

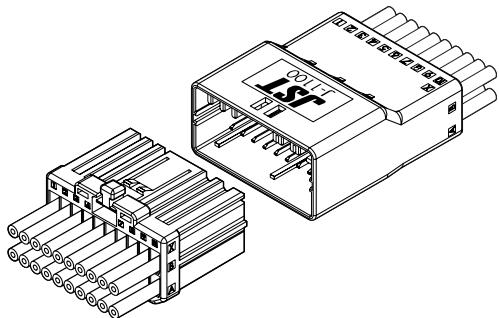
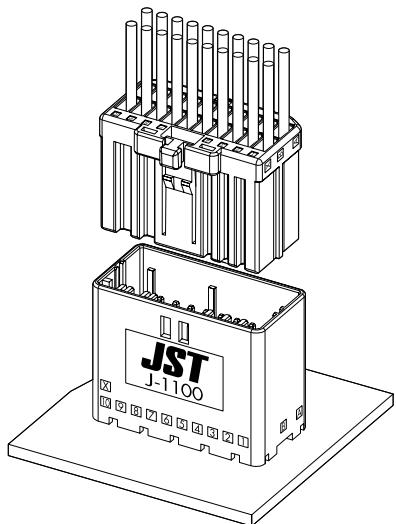
ex. BU16P-TRW-P-H

H...gray Y...yellow R...red N...brown
S...natural (white) M...green



JFA CONNECTOR J1000 SERIES

2.2mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



It is a high reliability connector corresponding to demand of the miniaturization of electronic equipment and the wire size of AWG#18.

- Double-spring construction
- Housing lance
- Clear “click feeling”

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 125V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Applicable wire: AWG #28 to #18 (0.08 to 0.82mm²)
(Tin-plated annealed copper wire [stranded wire])
(Insulation O.D./0.85 to 2.1mm)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.

*RoHS compliant products are published

Current rating

Unit: A

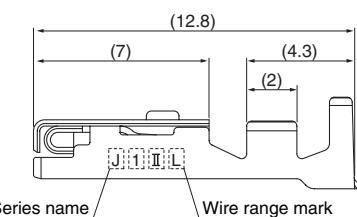
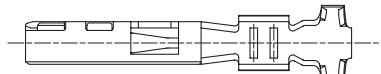
Circuits	Wire size (AWG)					
	#18	#20	#22	#24	#26	#28
1 (Note)	6.8	5.9	5.0	4.2	3.2	2.5
3	6.2	5.2	4.6	3.6	3.1	2.5
6	5.5	4.6	4.0	3.0	2.5	2.1
8	5.5	4.6	4.0	3.0	2.4	2.0
12	4.7	3.9	3.4	2.6	2.1	1.7
20	3.9	3.3	2.9	2.2	1.8	1.6

Note: Current rating value when applying only to 1-circuit of 3-circuit connector.

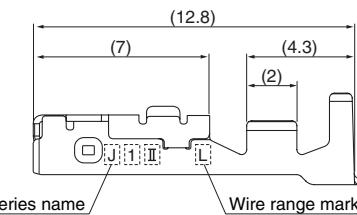
JFA CONNECTOR/J1000 SERIES

Receptacle contact

Tin-plated



Gold-plated



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SF1F-002 (*) -P0.6	M	0.08~0.22	28~24	0.85~1.43	—
SF1F-21 (*) -P0.6	L	0.30~0.82	22~18	1.60~2.10	5,000

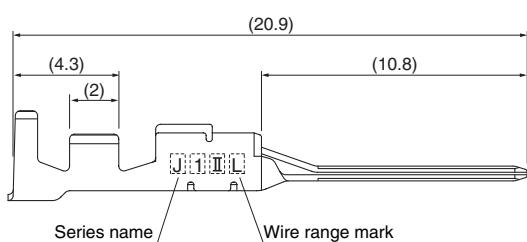
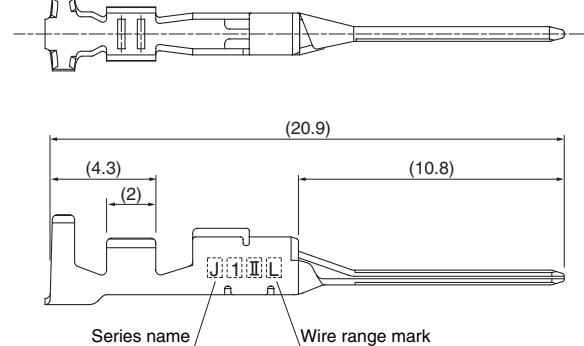
Material and Finish

Copper alloy, tin-plated, gold-plated

RoHS compliance

Note: Finish(*):T Tin-plated
GC ...Gold-plated

Tab contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SF1M-002 (*) -M0.6A	M	0.08~0.22	28~24	0.85~1.43	—
SF1M-21 (*) -M0.6A	L	0.30~0.82	22~18	1.60~2.10	5,000

Material and Finish

Copper alloy, tin-plated, gold-plated

RoHS compliance

Note: Finish(*):T Tin-plated
GC ...Gold-plated

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF1F-002 (*) -P0.6	AP-K2N	MKS-L	MK/SF1F/M002-06	APLMK SF1F/M002-06	Refer to page 576, 577.
SF1M-002 (*) -M0.6A	—	—	—	—	
SF1F-21 (*) -P0.6	AP-K2N	MKS-L	MK/SF1F/M21-06	APLMK SF1F/M21-06	Refer to page 576, 577.
SF1M-21 (*) -M0.6A	—	—	—	—	

• Extraction tool for J1000 series: EJ-JFAJ1100

• Hand crimp tool uses the YRK series and refer to page 576, 577 for details

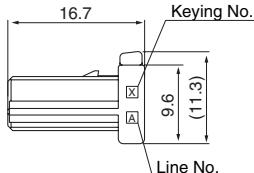
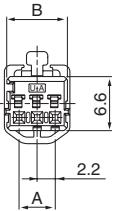
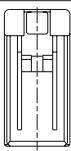
Note 1. Contact JST for fully automatic crimping applicator.

2. Finish(*):T Tin-plated
GC ...Gold-plated

J1000 SERIES/J1100

Receptacle housing

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	J11SF-03V-KX	4.4	7.4	1,200
	Y	J11SF-03V-KY	4.4	7.4	1,200

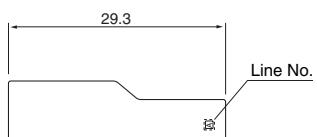
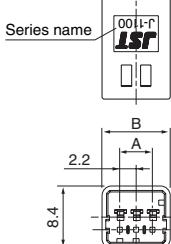
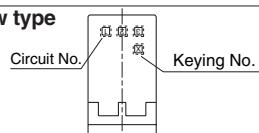
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	J11SFM-03V-KX	4.4	9.2	500
	Y	J11SFM-03V-KY	4.4	9.2	500

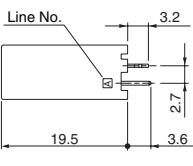
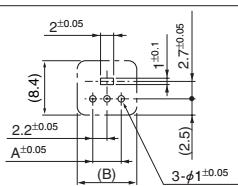
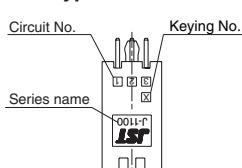
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Top entry type (Center locking type)

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	B03B-J11SK-(*)XR	4.4	9.2	625
	Y	B03B-J11SK-(*)YR	4.4	9.2	625

Material and Finish

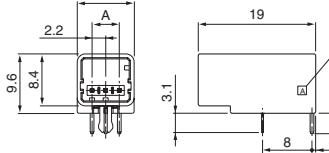
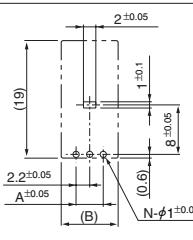
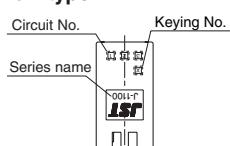
Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance

Gold-plated product displays (LF) on a label.
Note: Finish(*):T Tin-plated
GW ... Gold-plated

Header Side entry type (Center locking type)

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	S03B-J11SK-(*)XR	4.4	9.2	600
	Y	S03B-J11SK-(*)YR	4.4	9.2	600

Material and Finish

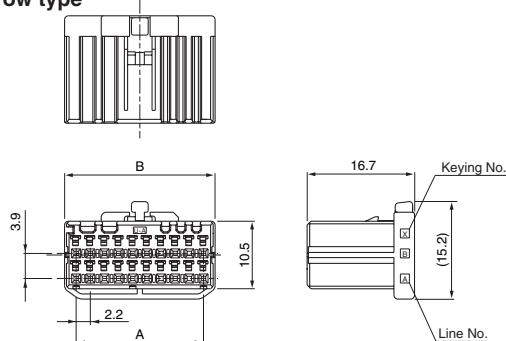
Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance

Gold-plated product displays (LF) on a label.
Note: Finish(*):T Tin-plated
GW ... Gold-plated

Receptacle housing

Double-row type



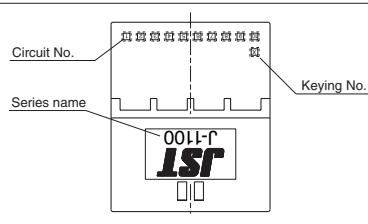
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	J11DF-06V-KX	4.4	8.0	800
	Y	J11DF-06V-KY	4.4	8.0	800
8	X	J11DF-08V-KX	6.6	10.2	500
	Y	J11DF-08V-KY	6.6	10.2	500
12	X	J11DF-12V-KX	11.0	14.6	400
	Y	J11DF-12V-KY	11.0	14.6	400
20	X	J11DF-20V-KX	19.8	23.4	250
	Y	J11DF-20V-KY	19.8	23.4	250
22	X	J11DF-22V-KX	22.0	25.6	—
	Y	J11DF-22V-KY	22.0	25.6	—
26	X	J11DF-26V-KX	26.4	30.0	—
	Y	J11DF-26V-KY	26.4	30.0	—
30	X	J11DF-30V-KX	30.8	34.4	—
	Y	J11DF-30V-KY	30.8	34.4	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	J11DFM-06V-KX	4.4	9.2	400
8	X	J11DFM-08V-KX	6.6	11.4	300
12	X	J11DFM-12V-KX	11.0	15.8	200
20	X	J11DFM-20V-KX	19.8	24.6	150

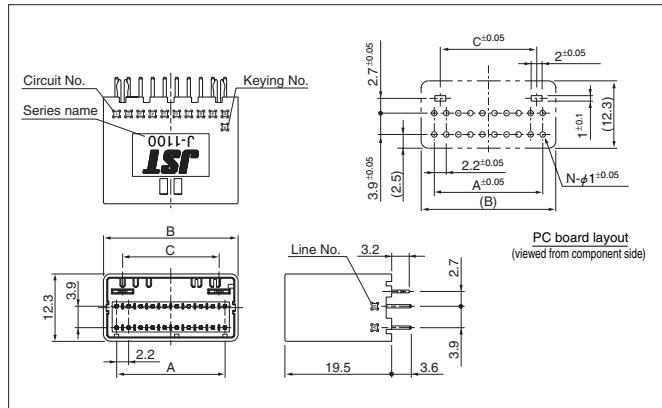
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J1000 SERIES/J1100

Header Top entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	B06B-J11DK-(*)XR	4.4	9.2	—	500
	Y	B06B-J11DK-(*)YR	4.4	9.2	—	500
8	X	B08B-J11DK-(*)XR	6.6	11.4	4.4	400
	Y	B08B-J11DK-(*)YR	6.6	11.4	4.4	400
12	X	B12B-J11DK-(*)XR	11.0	15.8	8.8	280
	Y	B12B-J11DK-(*)YR	11.0	15.8	8.8	280
20	X	B20B-J11DK-(*)XR	19.8	24.6	17.6	180
	Y	B20B-J11DK-(*)YR	19.8	24.6	17.6	180
22	X	B22B-J11DK-(*)XR	22.0	26.8	19.8	—
	Y	B22B-J11DK-(*)YR	22.0	26.8	19.8	—
26	X	B26B-J11DK-(*)XR	26.4	31.2	24.2	—
	Y	B26B-J11DK-(*)YR	26.4	31.2	24.2	—
30	X	B30B-J11DK-(*)XR	30.8	35.6	28.6	—
	Y	B30B-J11DK-(*)YR	30.8	35.6	28.6	—

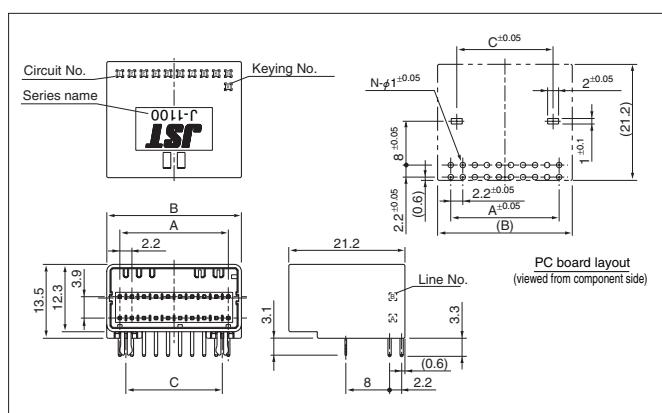
Material and Finish

Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance Gold-plated product displays (LF) on a label.

Note: Finish(*)T Tin-plated
GW ...Gold-plated

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	S06B-J11DK-(*)XR	4.4	9.2	—	375
	Y	S06B-J11DK-(*)YR	4.4	9.2	—	375
8	X	S08B-J11DK-(*)XR	6.6	11.4	—	300
	Y	S08B-J11DK-(*)YR	6.6	11.4	—	300
12	X	S12B-J11DK-(*)XR	11.0	15.8	8.8	225
	Y	S12B-J11DK-(*)YR	11.0	15.8	8.8	225
20	X	S20B-J11DK-(*)XR	19.8	24.6	17.6	135
	Y	S20B-J11DK-(*)YR	19.8	24.6	17.6	135

Material and Finish

Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance Gold-plated product displays (LF) on a label.

Note: Finish(*)T Tin-plated
GW ...Gold-plated

JFA CONNECTOR/J1000 SERIES

Model number identification

Receptacle contact

S F1 F - 21 T - P 0.6

Form: S...Strip form

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG#28 ~ AWG#24
21...AWG#22 ~ AWG#18

Surface finish: T...Tin-plated, GC...Gold-plated

Material: P...Copper alloy

Terminal size

Tab contact

S F1 M - 21 T - M 0.6 A

Form: S...Strip form

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG#28 ~ AWG#24
21...AWG#22 ~ AWG#18

Surface finish: T...Tin-plated, GC...Gold-plated

Material: M...Copper alloy

Terminal size

Auxiliary mark

Receptacle housing

J11 DF - 06 V - K X

Series name

Type of connector: SF...Single-row type
DF...Double-row type

No. of circuits: 3, 6, 8, 12, 20

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Tab housing

J11 DFM - 06 V - K X

Series name

Type of connector: SFM...Single-row type
DFM...Double-row type

No. of circuits: 3, 6, 8, 12, 20

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying

Header

B 06 B - J11 D K - T X R

PC board mounting direction:
B...Top entry type, S...Side entry type

No. of circuits: 3, 6, 8, 12, 20

Product name: Header

Series name

Rows: S...Single-row, D...Double-row

Color indication: K...Black

Surface finish: T...Tin-plated, GW...Gold-plated

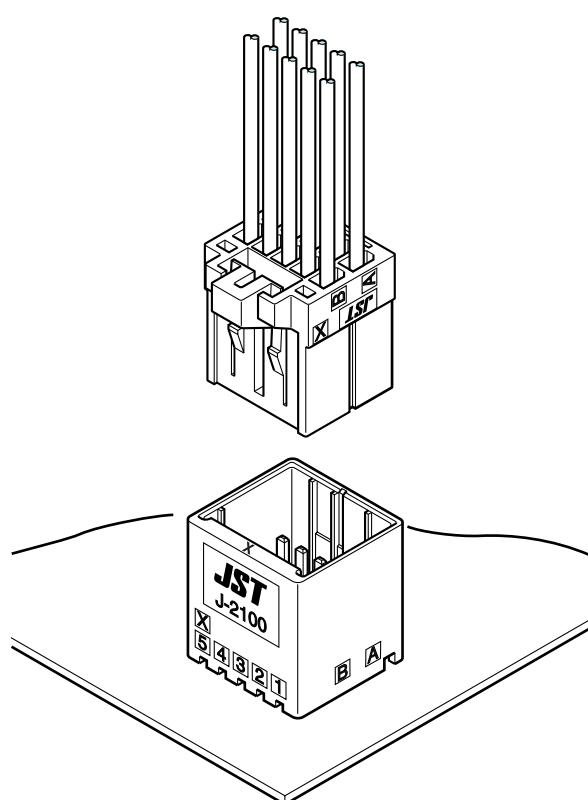
Keying: X...X-Keying, Y...Y-Keying

Packaging form: R...Tray, M...Magazine stick



JFA CONNECTOR J2000 SERIES

2.5mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



2.5mm pitch connector for miniaturization of electronic equipment.

Center locking or side locking options can be used depending on the required application.

Receptacle contacts are designed to be common with all JFA connector J2000 series.

- Double-spring construction
- 2 kinds of locking method
- Housing lance
- Clear “click feeling”

Specifications

- Current rating: 4.6A max. AC, DC (3 circuits/AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20 (0.08 to 0.75mm²)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.

*RoHS compliant products are published.

Current rating

Unit: A

Circuits	Wire size (AWG)				
	#20	#22	#24	#26	#28
3	4.6	4.4	3.4	3.0	2.4
4	4.5	4.3	3.2	2.8	2.3
6	4.3	4.1	2.8	2.6	2.1
8	4.1	3.6	2.6	2.3	1.9
10	3.9	3.4	2.5	2.2	1.8
12	3.6	3.1	2.4	2.0	1.6
16	3.2	2.8	2.2	1.8	1.4
20	2.9	2.5	2.1	1.7	1.3

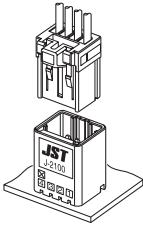
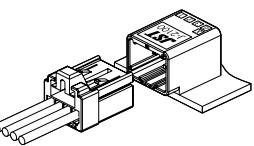
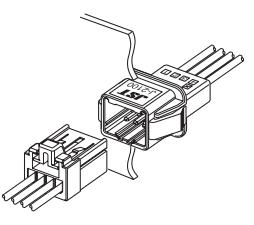
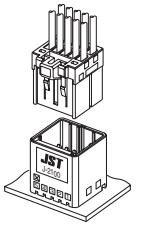
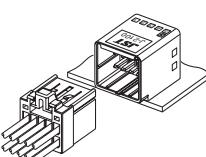
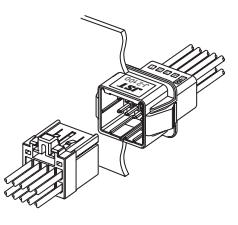
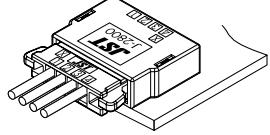
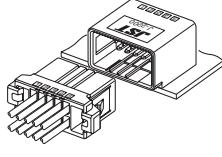
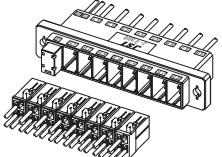
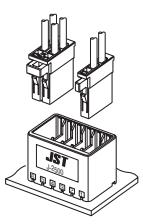
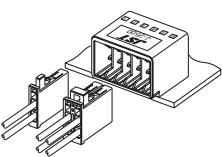
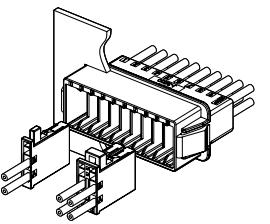
Standards

■ Recognized E60389

JFA CONNECTOR/J2000 SERIES

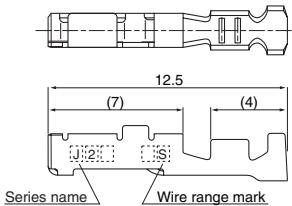
List of J2000 series products

2.5mm pitch/ Voltage rating 250V AC, DC

Type	Wire-to-board		Wire-to-wire	
	Top entry type	Side entry type	Panel mounting type	
Center locking type	J2100 Single-row type			
	Circuits	3, 4	3, 4	3, 4
	J2100 Double-row type			
	Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 10, 12, 16, 20
Side locking type	J2800 Single-row type			
	Circuits		4	
	J2200 Double-row type			
	Circuits		10	
Common type for sensors	J2300			
	Circuits			Output 10 / Input 24
Module type	J2500			
	Circuits	12, 20	12, 20	20

JFA CONNECTOR/J2000 SERIES

Receptacle contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ2F-002GF-P1.0	S	0.08 ~ 0.20	28 ~ 24	0.88 ~ 1.43	6,000
SJ2F-01GF-P1.0	M	0.20 ~ 0.50	24 ~ 20	1.11 ~ 1.53	6,000
SJ2F-21GF-P1.0	L	0.30 ~ 0.75	—	1.30 ~ 1.90	5,000

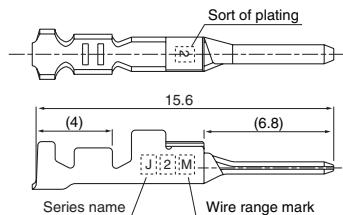
Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated

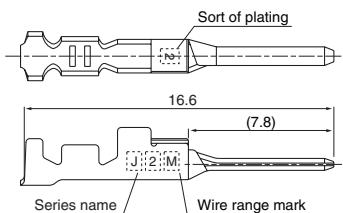
RoHS compliance

Tab contact

• Standard Tab



• Sequential Tab



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ2M-002GF-M1.0N	S	0.08 ~ 0.20	28 ~ 24	0.88 ~ 1.43	5,500
SJ2M-01GF-M1.0N	M	0.20 ~ 0.50	24 ~ 20	1.11 ~ 1.53	5,500
SJ2M-21GF-M1.0N	L	0.30 ~ 0.75	—	1.30 ~ 1.90	5,000
SJ2M-01GF-M1.0S	Sequential	0.20 ~ 0.50	24 ~ 20	1.11 ~ 1.53	5,500

Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated

RoHS compliance

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-002GF-P1.0	AP-K2N	MKS-L	MK/SJ2F/M-002-10	APLMK SJ2F/M002-10	YRS-8851
SJ2M-002GF-M1.0N		—	—	—	
SJ2F-21GF-P1.0	AP-K2N	MKS-L	MK/SJ2F/M-21-10	APLMK SJ2F/M21-10	YRF-1120
SJ2M-21GF-M1.0N		*MKS-SC-J2	SC/SJ2F/M-21-10	APLSC SJ2F/M21-10	

• Extraction tool for J2000 series: EJ-JFAJ2N

• Refer to page 654,655 for details of YRK series hand crimping tool.

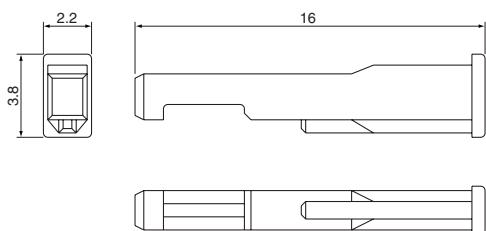
Note 1.*: Strip-crimp applicator

2. Contact JST for fully automatic crimping applicator.

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-01GF-P1.0	AP-K2N	MKS-L	MK/SJ2F/M-01-10	APLMK SJ2F/M01-10	YRS-8861
SJ2M-01GF-M1.0N		—	—	—	
SJ2M-01GF-M1.0S	AP-K2N	*MKS-SC-J2	SC/SJ2F/M-01-10	APLSC SJ2F/M01-10	YRS-8861

Keying plug

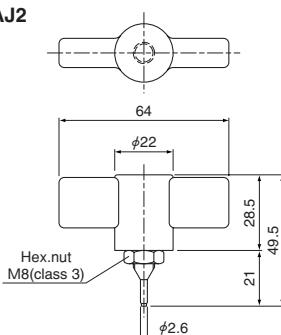
Model No.: J2KP-VY



RoHS compliance

Tab contact cutting tool

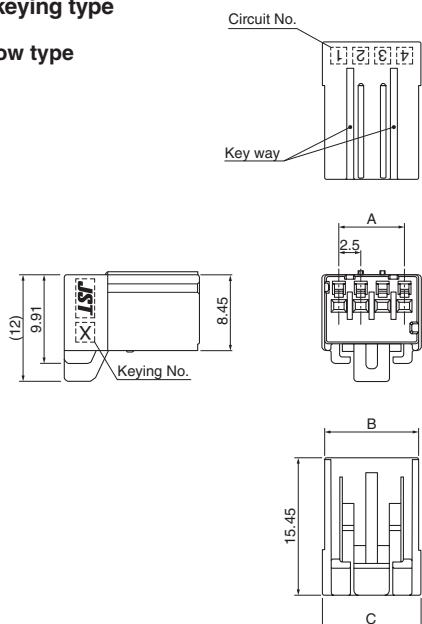
Model No.: CT-JFAJ2



Receptacle housing (Center locking type)

Long keying type

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	J21SF-03V-KX-L	5.0	8.3	8.9	400
	Y	J21SF-03V-KY-L	5.0	8.3	8.9	400
4	X	J21SF-04V-KX-L	7.5	10.8	11.4	400
	Y	J21SF-04V-KY-L	7.5	10.8	11.4	400

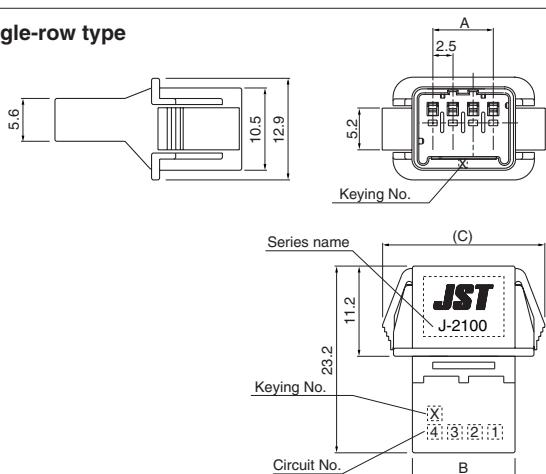
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
3	X	J21SPM-03V-KX	5.0	10.2	17.6	208
	Y	J21SPM-03V-KY	5.0	10.2	17.6	208
4	X	J21SPM-04V-KX	7.5	12.7	20.1	192
	Y	J21SPM-04V-KY	7.5	12.7	20.1	192

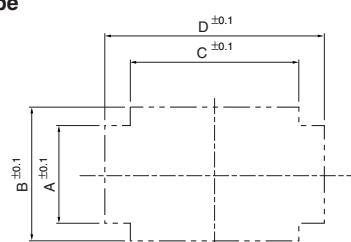
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Panel layout

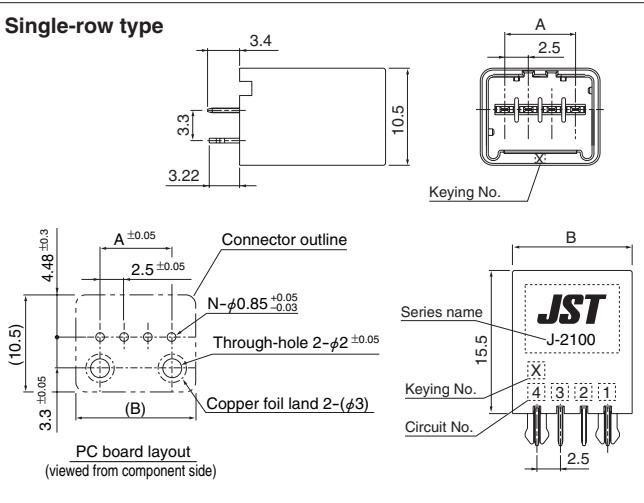
Single-row type



Circuits	Dimensions (mm)			
	A	B	C	D
3	7.8	10.8	10.5	15.2
4	7.8	10.8	13.0	17.7

J2000 SERIES/J2100

Header Top entry type (Center locking type)



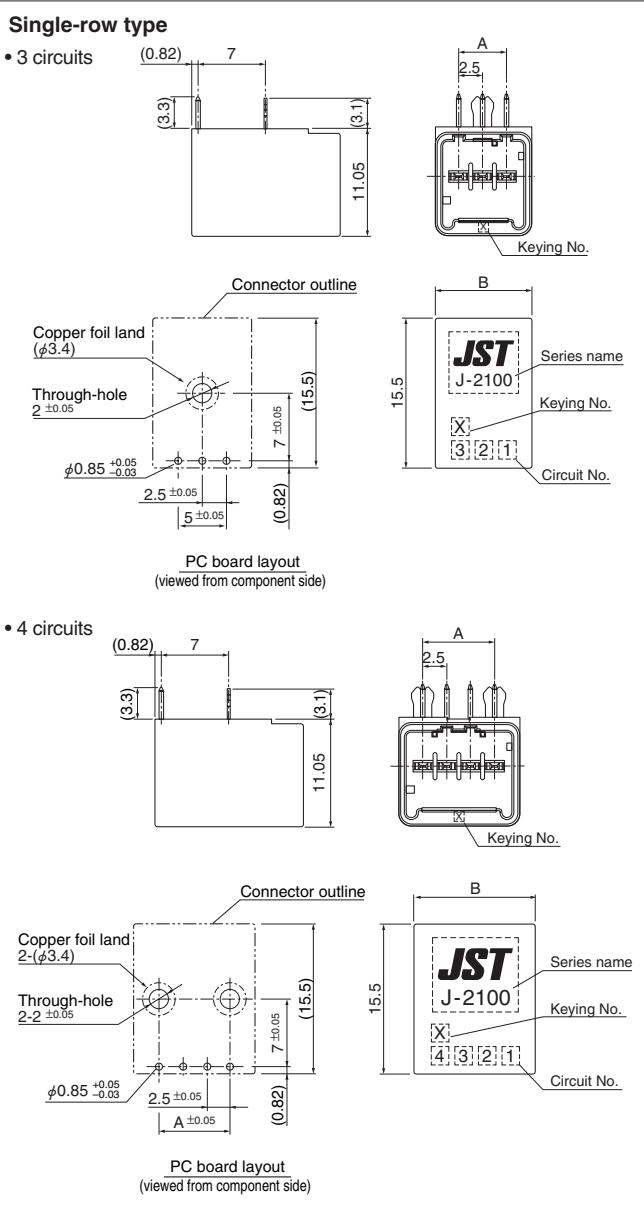
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	B03B-J21SK-GGXRX	5.0	10.2	378
	Y	B03B-J21SK-GGYR	5.0	10.2	378
4	X	B04B-J21SK-GGXRX	7.5	12.7	306
	Y	B04B-J21SK-GGYR	7.5	12.7	306

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Header Side entry type (Center locking type)



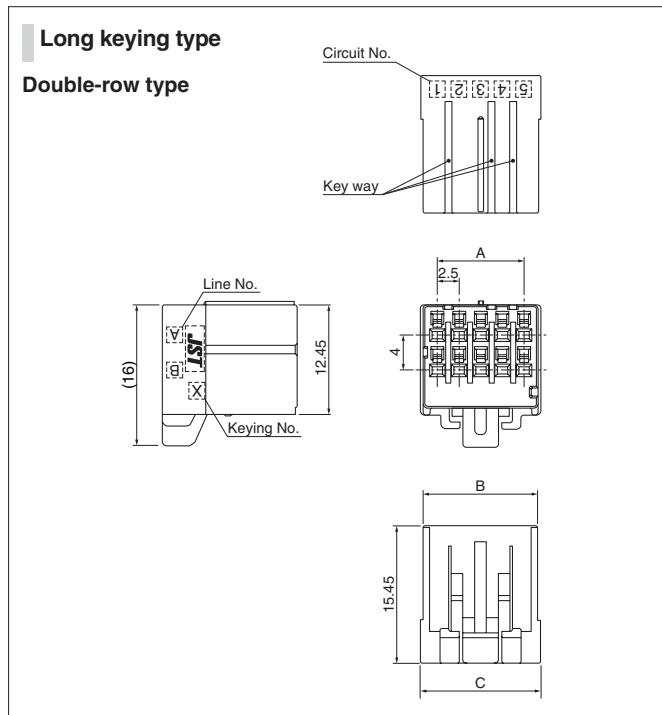
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	S03B-J21SK-GGXRX	5.0	10.2	294
	Y	S03B-J21SK-GGYR	5.0	10.2	294
4	X	S04B-J21SK-GGXRX	7.5	12.7	238
	Y	S04B-J21SK-GGYR	7.5	12.7	238

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Receptacle housing (Center locking type)

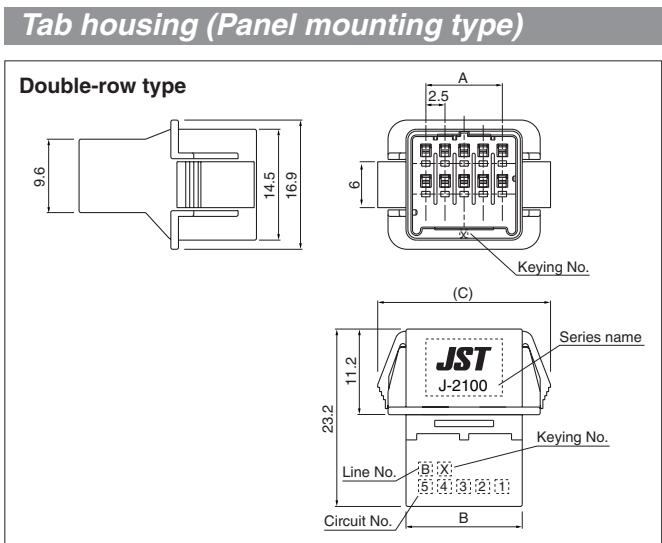


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	X	J21DF-06V-KX	5.0	8.3	8.9	300
	Y	J21DF-06V-KY	5.0	8.3	8.9	300
	X	J21DF-06V-KX-L	5.0	8.3	8.9	300
	Y	J21DF-06V-KY-L	5.0	8.3	8.9	300
8	X	J21DF-08V-KX-L	7.5	10.8	11.4	300
	Y	J21DF-08V-KY-L	7.5	10.8	11.4	300
10	X	J21DF-10V-KX-L	10.0	13.3	13.9	200
	Y	J21DF-10V-KY-L	10.0	13.3	13.9	200
12	X	J21DF-12V-KX-L	12.5	15.8	16.4	200
	Y	J21DF-12V-KY-L	12.5	15.8	16.4	200
16	X	J21DF-16V-KX-L	17.5	20.8	21.4	200
	Y	J21DF-16V-KY-L	17.5	20.8	21.4	200
20	X	J21DF-20V-KX-L	22.5	25.8	26.4	100
	Y	J21DF-20V-KY-L	22.5	25.8	26.4	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

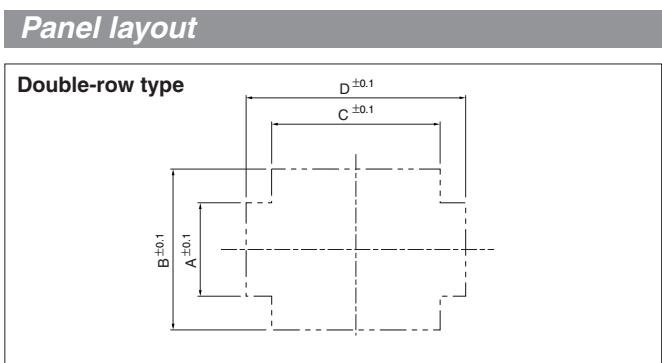


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
6	X	J21DPM-06V-KX	5.0	10.2	17.6	156
	Y	J21DPM-06V-KY	5.0	10.2	17.6	156
10	X	J21DPM-10V-KX	10.0	15.2	22.6	120
	Y	J21DPM-10V-KY	10.0	15.2	22.6	120
12	X	J21DPM-12V-KX	12.5	17.7	25.1	108
	Y	J21DPM-12V-KY	12.5	17.7	25.1	108
16	X	J21DPM-16V-KX	17.5	22.7	30.1	84
	Y	J21DPM-16V-KY	17.5	22.7	30.1	84
20	X	J21DPM-20V-KX	22.5	27.7	35.1	72
	Y	J21DPM-20V-KY	22.5	27.7	35.1	72

Material

Glass-filled PBT, UL94V-0, black

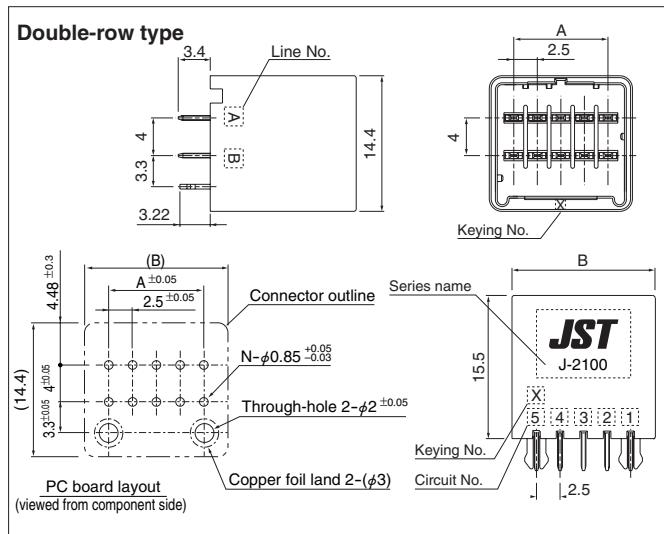
RoHS compliance



Circuits	Dimensions (mm)			
	A	B	C	D
6	8.6	14.8	10.5	15.2
10	8.6	14.8	15.5	20.2
12	8.6	14.8	18.0	22.7
16	8.6	14.8	23.0	27.7
20	8.6	14.8	28.0	32.7

J2000 SERIES/J2100

Header Top entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	B06B-J21DK-GGXRX	5.0	10.2	252
	Y	B06B-J21DK-GGYR	5.0	10.2	252
8	X	B08B-J21DK-GGXRX	7.5	12.7	204
	Y	B08B-J21DK-GGYR	7.5	12.7	204
10	X	B10B-J21DK-GGXRX	10.0	15.2	168
	Y	B10B-J21DK-GGYR	10.0	15.2	168
12	X	B12B-J21DK-GGXRX	12.5	17.7	144
	Y	B12B-J21DK-GGYR	12.5	17.7	144
16	X	B16B-J21DK-GGXRX	17.5	22.7	108
	Y	B16B-J21DK-GGYR	17.5	22.7	108
20	X	B20B-J21DK-GGXRX	22.5	27.7	84
	Y	B20B-J21DK-GGYR	22.5	27.7	84

Material and Finish

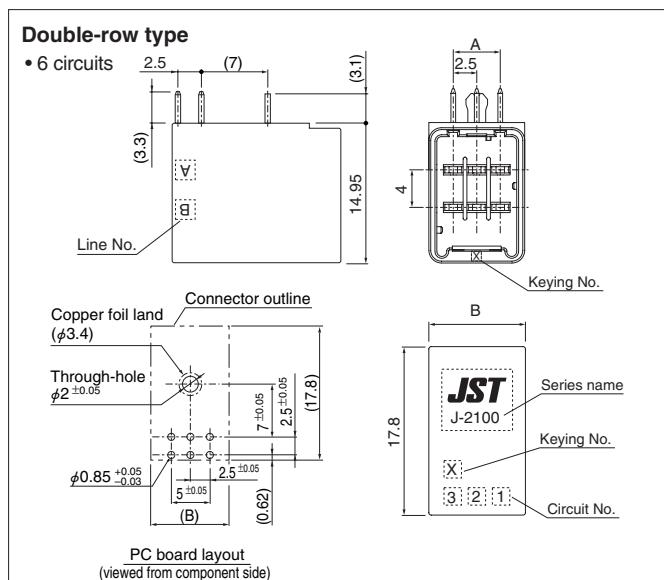
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF) (AU) on a label.

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	S06B-J21DK-GGXRX	5.0	10.2	252
	Y	S06B-J21DK-GGYR	5.0	10.2	252
8	X	S08B-J21DK-GGXRX	7.5	12.7	204
	Y	S08B-J21DK-GGYR	7.5	12.7	204
10	X	S10B-J21DK-GGXRX	10.0	15.2	168
	Y	S10B-J21DK-GGYR	10.0	15.2	168
12	X	S12B-J21DK-GGXRX	12.5	17.7	144
	Y	S12B-J21DK-GGYR	12.5	17.7	144
16	X	S16B-J21DK-GGXRX	17.5	22.7	108
	Y	S16B-J21DK-GGYR	17.5	22.7	108
20	X	S20B-J21DK-GGXRX	22.5	27.7	84
	Y	S20B-J21DK-GGYR	22.5	27.7	84

Material and Finish

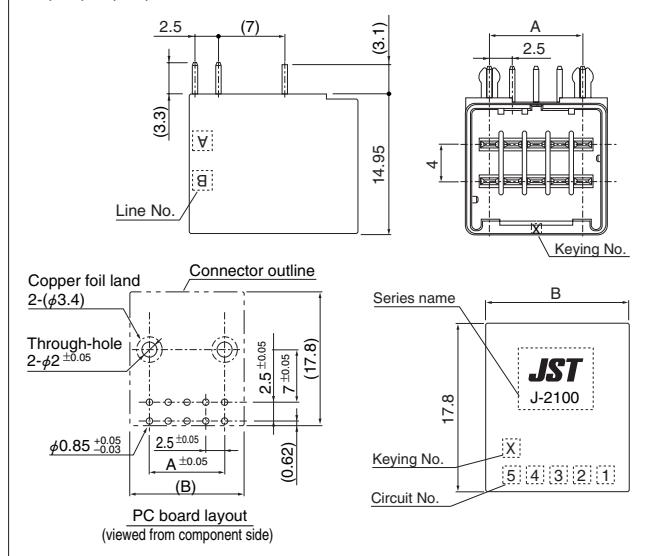
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Tab contact: Copper alloy, nickel-undercoat
Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF) (AU) on a label.

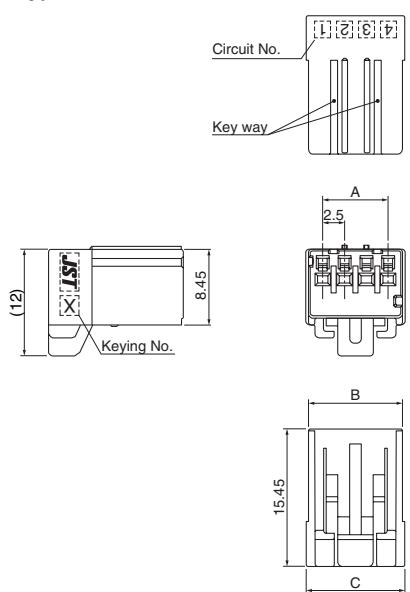
- 8, 10, 12, 16, 20 circuits



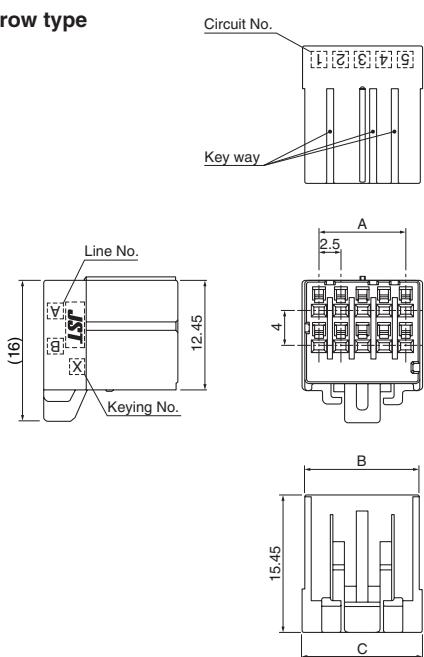
Receptacle housing (Center locking type)

Short keying type

Single-row type



Double-row type



Single-row type

Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	J21SF-03V-KX	5.0	8.3	8.9	400
	Y	J21SF-03V-KY	5.0	8.3	8.9	400
4	X	J21SF-04V-KX	7.5	10.8	11.4	400
	Y	J21SF-04V-KY	7.5	10.8	11.4	400

Double-row type

Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
8	X	J21DF-08V-KX	7.5	10.8	11.4	300
	Y	J21DF-08V-KY	7.5	10.8	11.4	300
10	X	J21DF-10V-KX	10.0	13.3	13.9	200
	Y	J21DF-10V-KY	10.0	13.3	13.9	200
12	X	J21DF-12V-KX	12.5	15.8	16.4	200
	Y	J21DF-12V-KY	12.5	15.8	16.4	200
16	X	J21DF-16V-KX	17.5	20.8	21.4	200
	Y	J21DF-16V-KY	17.5	20.8	21.4	200
20	X	J21DF-20V-KX	22.5	25.8	26.4	100
	Y	J21DF-20V-KY	22.5	25.8	26.4	100

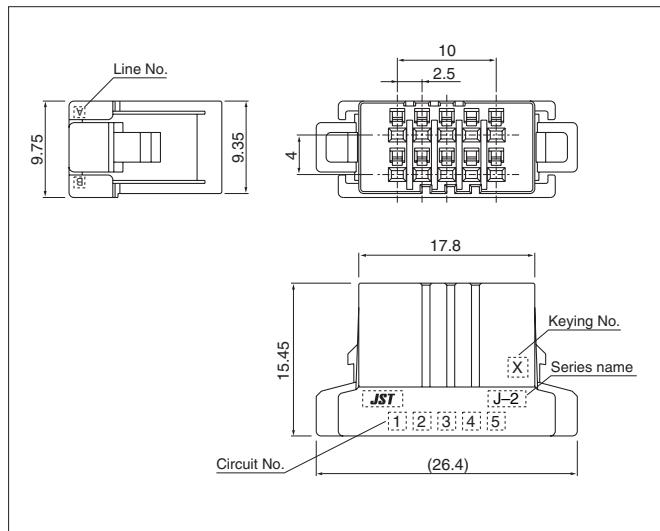
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J2000 SERIES/J2200

Receptacle housing (Side locking type)



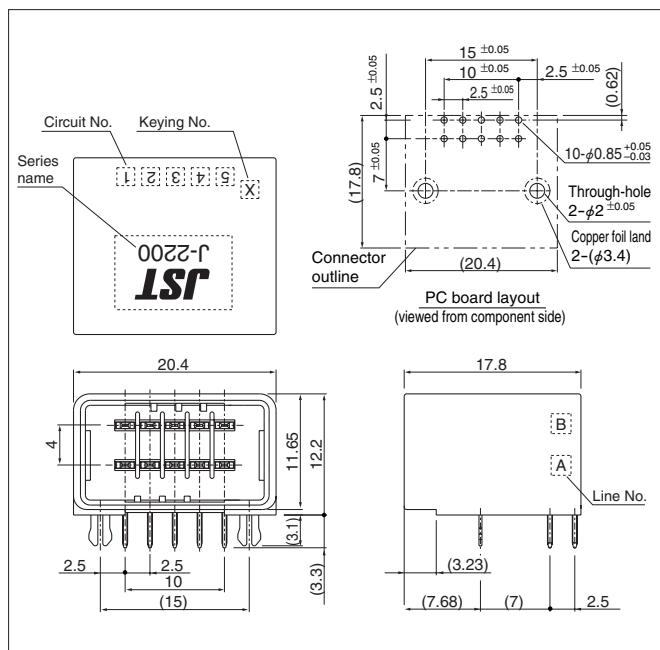
Circuits	Keying	Model No.	Q'ty / bag
10	X	J22DF-10V-KX	250
	Y	J22DF-10V-KY	250

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Side entry type (Side locking type)



Circuits	Keying	Model No.	Q'ty / box
10	X	S10B-J22DK-GGXR	120
	Y	S10B-J22DK-GGYR	120

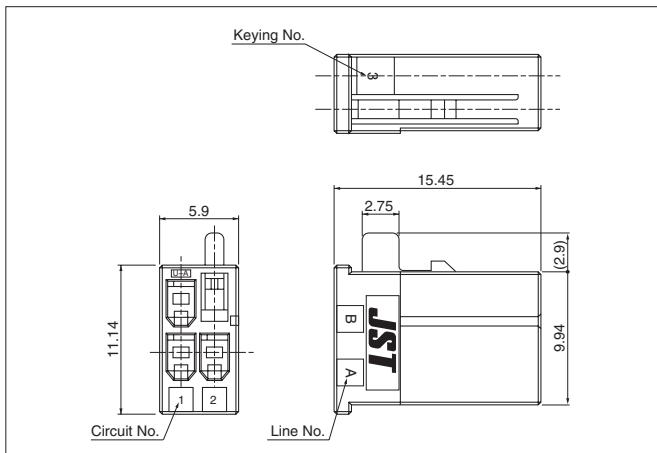
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

This product displays (LF)(AU) on a label.

Receptacle housing (Common type for sensor)



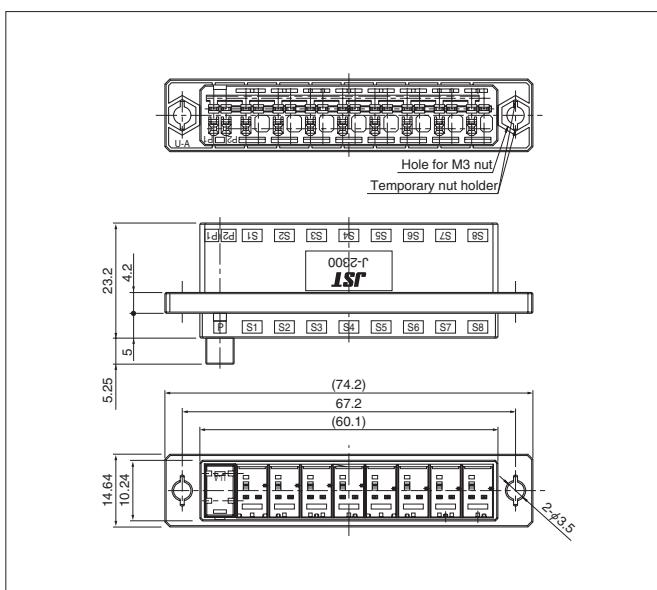
Circuits	Keying	Model No.	Q'ty / box
3	S1	J23CF-03V-KS1	784
	S2	J23CF-03V-KS2	784
	S3	J23CF-03V-KS3	784
	S4	J23CF-03V-KS4	784
	S5	J23CF-03V-KS5	784
	S6	J23CF-03V-KS6	784
	S7	J23CF-03V-KS7	784
	S8	J23CF-03V-KS8	784

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

T&P connector



Circuits	Keying	Model No.	Q'ty / box
Input	24		
Output	10	S1 ~ S8	P28B-J23DK-GGNR

Material and Finish

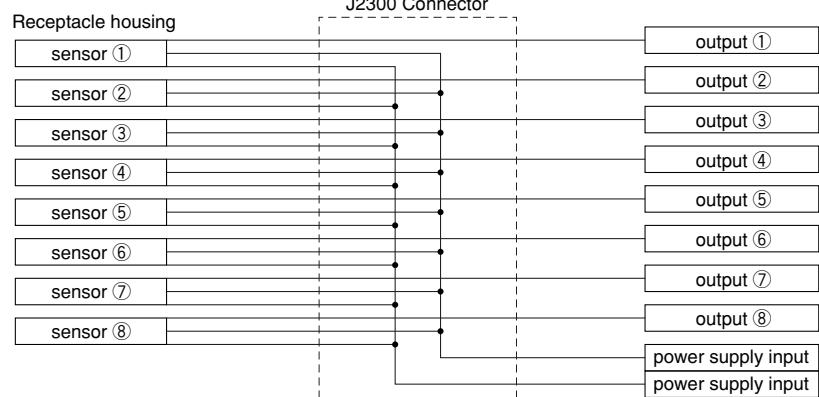
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

• Current rating

Wire size	Current (A)
#20	6.5
#22	5.5
#24	4.0
#26	3.0
#28	2.0

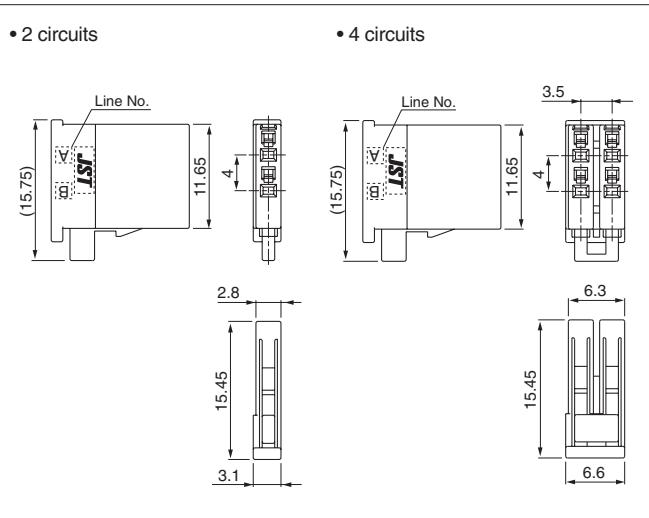
• Circuit composition



• Voltage rating: 250V AC, DC

J2000 SERIES/J2500

Receptacle housing (Module type)



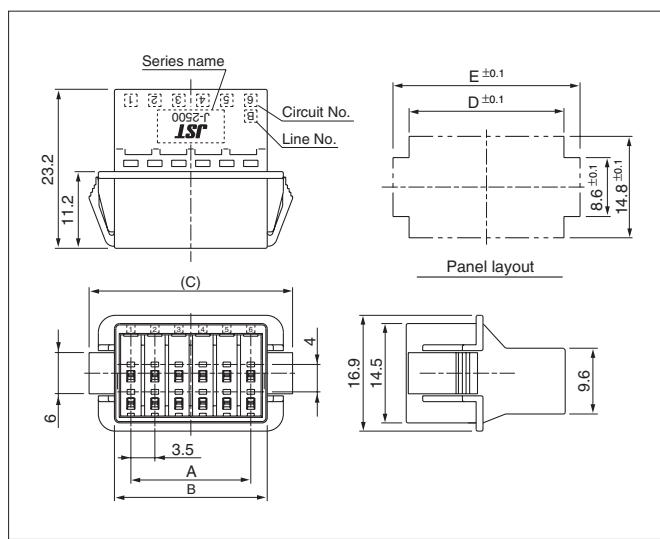
Circuits	Keying	Model No.	Q'ty / bag
2	—	J25MF-02V-K	800
4	—	J25MF-04V-K	400

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	(C)	D	E	
12	—	J25DPM-12V-K	17.5	22.3	29.7	22.6	27.3	96
20	—	J25DPM-20V-K	31.5	36.3	43.7	36.6	41.3	132

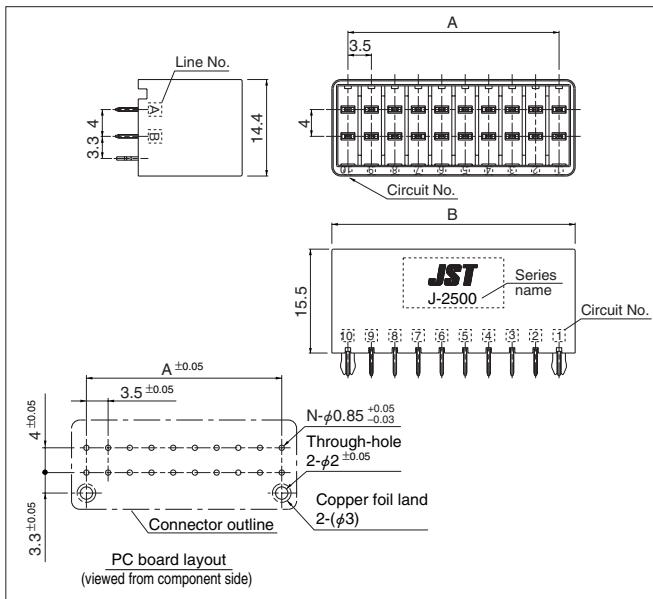
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not UL approved.

Header Top entry type (Module type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	B12B-J25DK-GGR	17.5	22.3	108
20	—	B20B-J25DK-GGR	31.5	36.3	72

Material and Finish

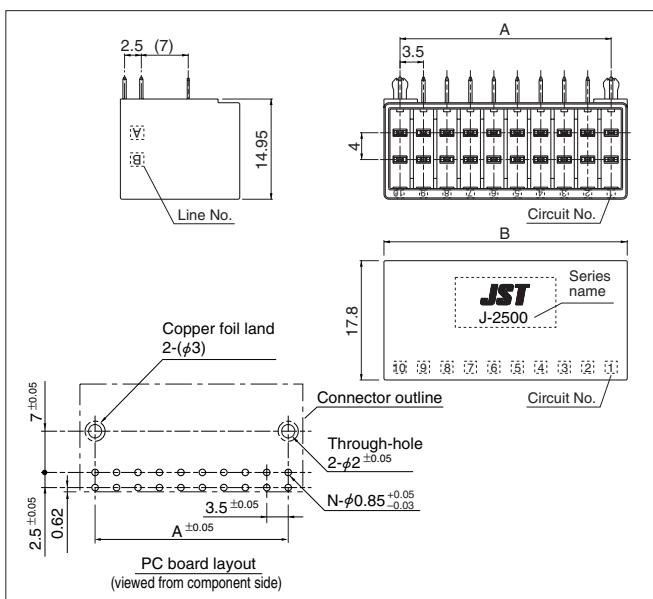
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF) (AU) on a label.

Header Side entry type (Module type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	S12B-J25DK-GGR	17.5	22.3	108
20	—	S20B-J25DK-GGR	31.5	36.3	72

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

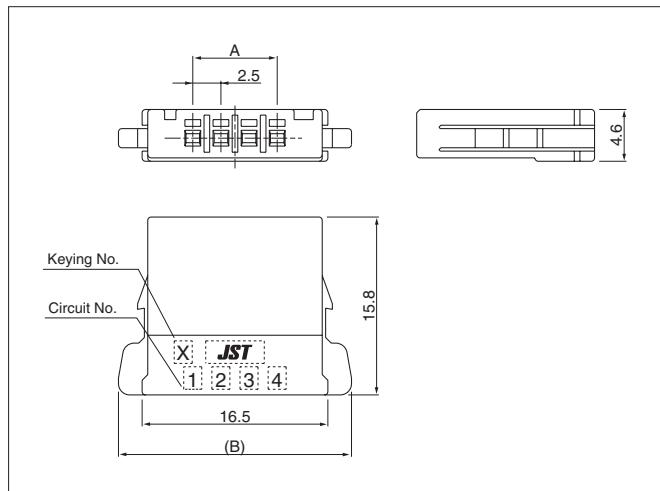
Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF) (AU) on a label.

J2000 SERIES/J2800

Receptacle housing



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	(B)	
4	X	J28SF-04V-KX	7.5	20.7	540
	Y	Under planning	—	—	—

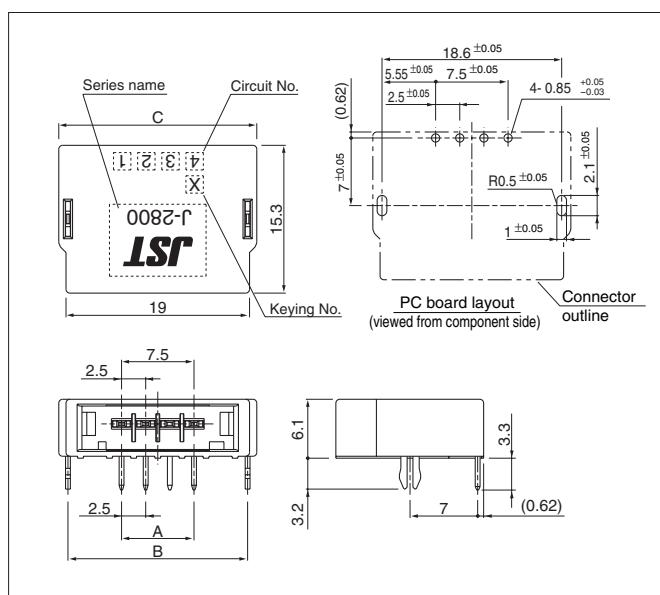
Material

PBT, UL94V-0, black

RoHS compliance

Note: Not UL approved.

Header Side entry type (Side locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	S04B-J28SK-GGXQ1R	7.5	18.6	20.5	280
	Y	Under planning	—	—	—	—

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

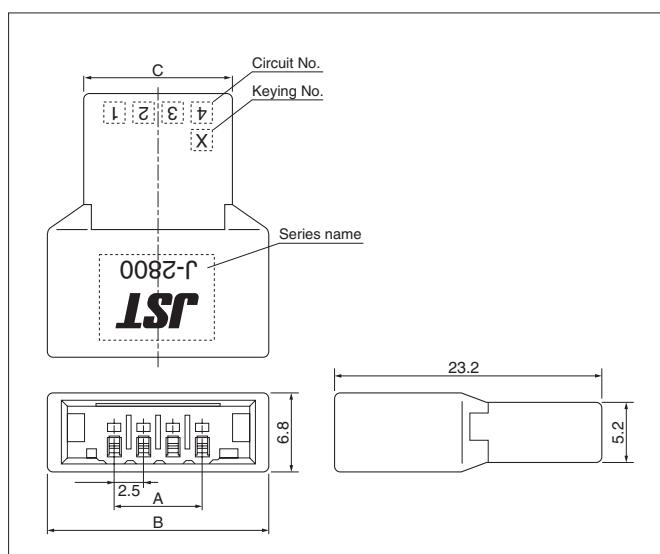
RoHS compliance

This product displays (LF) on a label.

Note: 1. 3rd and 4th pins are sequential pins.

2. Not UL approved.

Tab housing (Free hanging type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	J28SF-04V-KX	7.5	19	12.7	—
	Y	Under planning	7.5	19	12.7	—

Material

PBT, UL94V-0, black

RoHS compliance

Note: Not UL approved.

JFA CONNECTOR/2000 SERIES

Model number identification

Receptacle contact

S J2 F - 01 GF - P 1.0

Form: S...Strip form

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ AWG#24
01...AWG #24 ~ AWG#20
21...0.3 to 0.75mm²

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Material: P...Copper alloy

Terminal size

Tab contact

S J2 M - 01 GF - M 1.0 S

Form: S...Strip form

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG #28 ~ #24
01...AWG #24 ~ #20
21...0.3 to 0.75mm²

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Material: M...Copper alloy

Terminal size

Sequential identification: N...Normal, S...Sequential

Receptacle housing

J21 D F-06 V - K X - L

Series name: J21...Center locking type
J22...Side locking type
J23...Center locking type (for sensor)
J25...Module type
J28...Side locking type (Thin type)

Rows: S...Single-row, D...Double-row, M...Module-row
C...For sensor-row

Type of connector: F...Receptacle housing

No. of circuits: 2, 3, 4, 6, 8, 10, 12, 16, 20

Flammability: UL94V-0

Color indication: K...Black, S...Natural (White), PK...Pink

Keying: X...X-Keying, Y...Y-Keying, *...S1 ~ S8

Key way type: L...Long keying type
Blank...Short keying type (6 circuits is long keying type)

Tab housing

J21 D P M-06 V - K X

Series name: J21...Center locking type
J22...Side locking type
J23...Module type

Rows: S...Single-row, D...Double-row

Configuration: F...Free hanging, P...Panel mounting

Type of connector: M...Tab housing

No. of circuits: 3, 4, 6, 10, 12, 16, 20

Flammability: UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Header

S 04 B - J28 S K - GG X Q1 R

PC board mounting direction:
B...Top entry type
S...Side entry type
P...Panel mounting type

No. of circuits: 3, 4, 6, 8, 10, 12, 16, 20

Product name: Header

Series name: J21...Center locking type
J22...Side locking type
J23...Center locking type (for sensor)
J25...Module type
J28...Side locking type (Thin type)

Rows: S...Single-row, D...Double-row

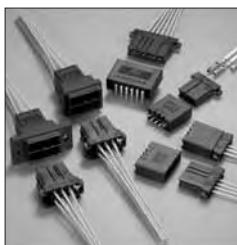
Color indication: K...Black, S...Natural (White), PK...Pink

Surface finish: GG...Nickel-undercoated, 0.38 μm selective gold-plated

Keying: X...X-Keying, Y...Y-Keying, N...Special keying (S1 ~ S8)

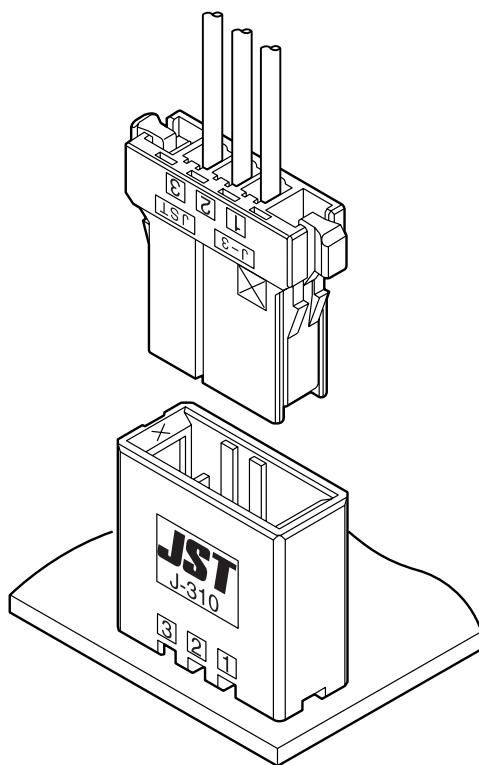
Sequential indication: Q1...Sequential type, Blank...Standard type

Packaging form: R...Tray



JFA CONNECTOR J300 SERIES

3.81, 5.08mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general.
In spite of the various kinds of housings available, their contacts are designed to be common.
The applicable tooling can be standardized.

- Double-spring construction
- Housing lances
- Secure locking method
- Recognition mark

Specifications

- Current rating: 15A AC, DC (Single circuit/AWG #14)
- Voltage rating: 310, 340 series [3.81mm pitch] 250V AC, DC
320, 350 series, 360T [5.08mm pitch] 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/5mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage:
310, 340 series [3.81mm pitch] 1,500V AC/minute
320, 350 series, 360T [5.08mm pitch] 2,200V AC/minute
- Applicable wire: AWG #28 to #14 (0.08 to 2.0mm²)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.

*RoHS compliant products are published.

Current rating

Unit: A

Circuits	Wire size (AWG)							
	#14	#16	#18	#20	#22	#24	#26	#28
1	15.0	14.0	11.5	9.5	8.0	6.5	5.75	4.75
2	13.5	13.5	11.25	9.25	7.5	6.25	5.5	4.5
3	12.25	12.25	10.5	8.5	7.0	5.75	5.0	4.1
4	11.25	11.25	10.0	8.0	6.5	5.5	4.75	4.0
5	10.5	10.5	9.5	7.5	6.25	5.25	4.5	4.0
6	9.75	9.75	9.0	7.0	6.0	5.0	4.25	3.75
8	9.0	9.0	8.25	6.5	5.5	4.5	3.75	3.25
9	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
10	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
12	8.25	8.25	7.75	6.0	5.0	4.0	3.5	3.0
16	8.0	8.0	7.5	6.0	4.75	4.0	3.5	3.0
20	8.0	8.0	7.25	6.0	4.5	4.0	3.5	2.75

Standards

■ Recognized E60389

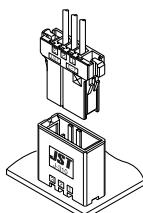
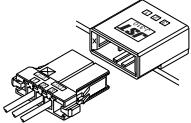
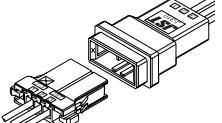
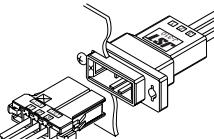
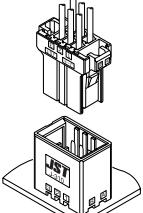
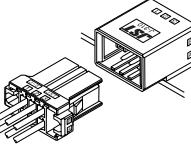
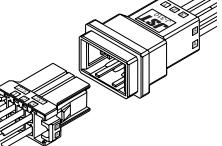
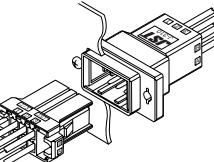
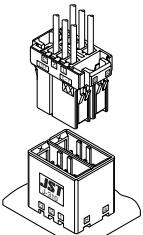
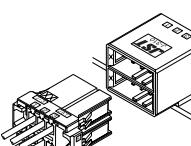
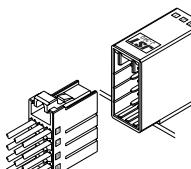
■ Certified LR20812

△ J-50015641

JFA CONNECTOR/J300 SERIES

List of J300 series products

3.81mm pitch / Voltage rating 250V AC, DC

Type	Wire-to-board		Wire-to-wire	
	Top entry type	Side entry type	Free hanging type	Panel mounting type
J310S Single-row type				
Circuits	3, 4, 5, 6, 8, 10	3, 4, 5, 6, 8, 10	3, 5, 8, 10	3, 5, 8, 10
J310D Double-row type [line pitch 5.08mm]				
Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20
J310M Double-row module type [line pitch 7.62mm]				
Circuits	6	6		
J340F Four-row type [line pitch 5.08mm]				
Circuits		12, 20		
—				
Circuits				

JFA CONNECTOR/J300 SERIES

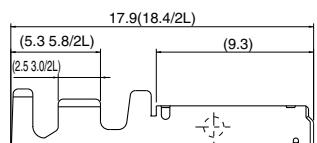
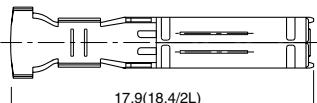
List of J300 series products

5.08mm pitch / Voltage rating 600V AC, DC

Wire-to-board		Wire-to-wire		Type
Top entry type	Side entry type	Free hanging type	Panel mounting type	
				J320S Single-row type
2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	Circuits
				J350D Double-row type [line pitch 5.08mm]
12, 20	12, 20		12	Circuits
				J320M Double-row module type [line pitch 7.62mm]
6,10,12	6, 8,10,12	6,12	6,12, 20	Circuits
				J320T Triple-row module type [line pitch 7.62mm]
	9			Circuits
Double-row common type (J350DC)		Triple-row common type (J360T)		J350DC J360T Common type
	(line pitch 5.08mm)		(line pitch 6.5mm)	
12		9,18, 24		Circuits

JFA CONNECTOR/J300 SERIES

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002 (*) -P2.0	BF3F-002 (*) -P2.0	S	0.08 ~ 0.20	28 ~ 24	0.8 ~ 1.4	3,700	1,000
SF3F-01 (*) -P2.0	BF3F-01 (*) -P2.0	M	0.20 ~ 0.50	24 ~ 20	1.2 ~ 2.6	3,700	1,000
SF3F-41 (*) -P2.0	LF3F-41 (*) -P2.0	L	0.50 ~ 1.25	20 ~ 16	1.8 ~ 2.8	3,200	1,000
SF3F-71 () -P2.0	*BF3F-71 (*) -P2.0	2L	1.25 ~ 2.0	16 ~ 14	2.4 ~ 3.4	3,200	1,000

Material and Finish

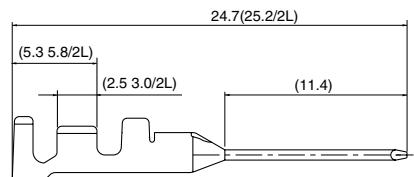
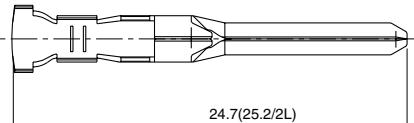
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF... Nickel-undercoated, 0.38 μm selective gold-plated
GI... Nickel-undercoated, 0.76 μm selective gold-plated
T..... Tin-plated

2. *Marked products are not CSA/TÜV approved.

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
Under planning	Under planning	S	0.08 ~ 0.20	28 ~ 24	0.8 ~ 1.4	—	—
SF3M-01 (*) -M2.0N	BF3M-01 (*) -M2.0N	M	0.20 ~ 0.50	24 ~ 20	1.2 ~ 2.6	3,500	1,000
SF3M-41 (*) -M2.0N	LF3M-41 (*) -M2.0N	L	0.50 ~ 1.25	20 ~ 16	1.8 ~ 2.8	3,300	1,000
SF3M-71 () -M2.0N	*BF3M-71 (*) -M2.0N	2L	1.25 ~ 2.0	16 ~ 14	2.4 ~ 3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF... Nickel-undercoated, 0.38 μm selective gold-plated
GI... Nickel-undercoated, 0.76 μm selective gold-plated
T..... Tin-plated

2. *Marked products are not CSA/TÜV approved.

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF3F-002 (*) -P2.0	AP-K2N	MKS-L	MK/SF3F-002-20	APLMK SF3F/M002-20	YRK-8821
SF3F-01 (*) -P2.0			MK/SF3F/M-01-20	APLMK SF3F/M01-20	YRK-8811
SF3M-01 (*) -M2.0N			MK/SF3F/M-41-20	APLMK SF3F/M41-20	YRK-8801
SF3F-41 (*) -P2.0			MK/SF3F/M-71-20	APLMK SF3F/M71-20	YRK-1071
SF3M-41 (*) -M2.0N					
SF3F-71 (*) -P2.0					
SF3M-71 (*) -M2.0N					

Note: Finish (*): GF... Nickel-undercoated, 0.38 μm selective gold-plated
GI... Nickel-undercoated, 0.76 μm selective gold-plated
T..... Tin-plated

Loose piece	Hand crimp tools
BF3F-002 (*) -P2.0	YRF-882
BF3F-01 (*) -P2.0	YRF-881
BF3M-01 (*) -M2.0N	YRF-880
LF3F-41 (*) -P2.0	YRF-1070
LF3M-41 (*) -M2.0N	YRF-1071
BF3F-71 (*) -P2.0	
BF3M-71 (*) -M2.0N	

Note: Finish (*): GF... Nickel-undercoated, 0.38 μm selective gold-plated
GI... Nickel-undercoated, 0.76 μm selective gold-plated
T..... Tin-plated

• Extraction tool for J300 series: EJ-JFAJ3

• Refer to page 576, 577 for details of YRK series hand crimping tool that uses a strip contact.

Recognition mark

• Plating of the contact

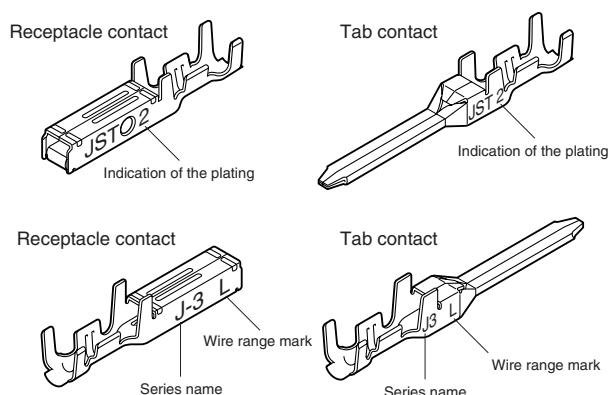
Each contact has a marking on its side so that the type or thickness of the plating is recognized.

ex. 2 ... gold-plated 0.38 μm thickness
3 ... gold-plated 0.76 μm thickness
5 ... tin-plated

• Common marking on the contact and its application tools

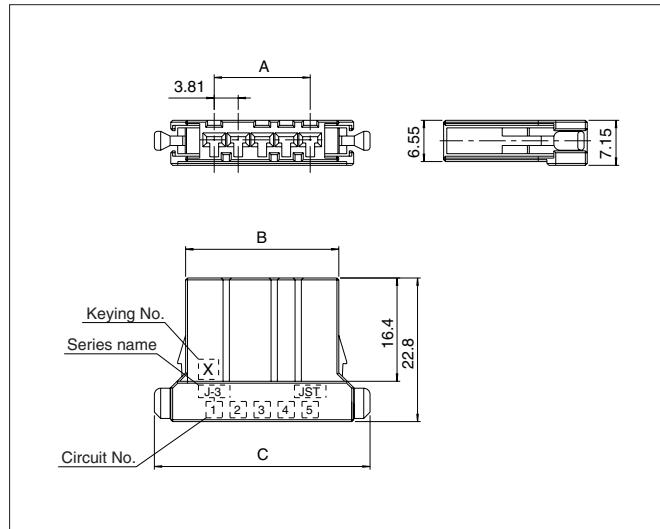
In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J-3) and wire range mark (S, M, L, 2L) are shown on both the tools and the contacts.

For example J-3 S.... AWG #28 ~ #24
M.... AWG #24 ~ #20
L.... AWG #20 ~ #16
2L... AWG #16 ~ #14



J300 SERIES/J310S

Receptacle housing



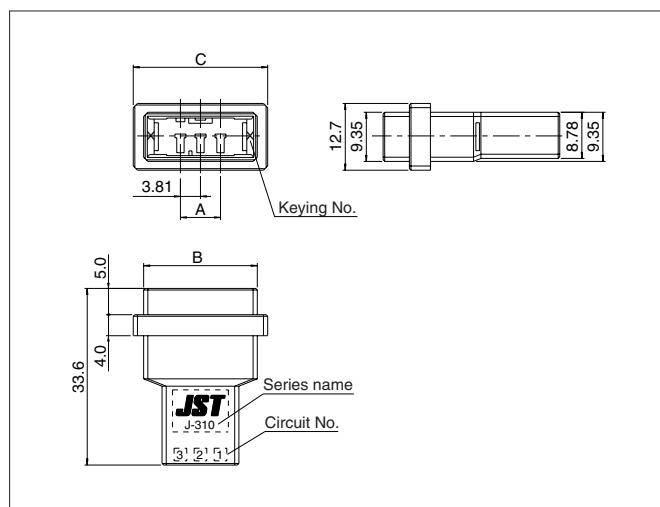
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31FSS-03V-KX	7.62	16.70	26.62	200
	Y	F31FSS-03V-KY	7.62	16.70	26.62	200
4	X	F31FSS-04V-KX	11.43	20.51	30.43	200
	Y	F31FSS-04V-KY	11.43	20.51	30.43	200
5	X	F31FSS-05V-KX	15.24	24.32	34.24	200
	Y	F31FSS-05V-KY	15.24	24.32	34.24	200
6	X	F31FSS-06V-KX	19.05	28.13	38.05	200
	Y	F31FSS-06V-KY	19.05	28.13	38.05	200
8	X	F31FSS-08V-KX	26.67	35.75	45.67	100
	Y	F31FSS-08V-KY	26.67	35.75	45.67	100
10	X	F31FSS-10V-KX	34.29	43.37	53.29	100
	Y	F31FSS-10V-KY	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



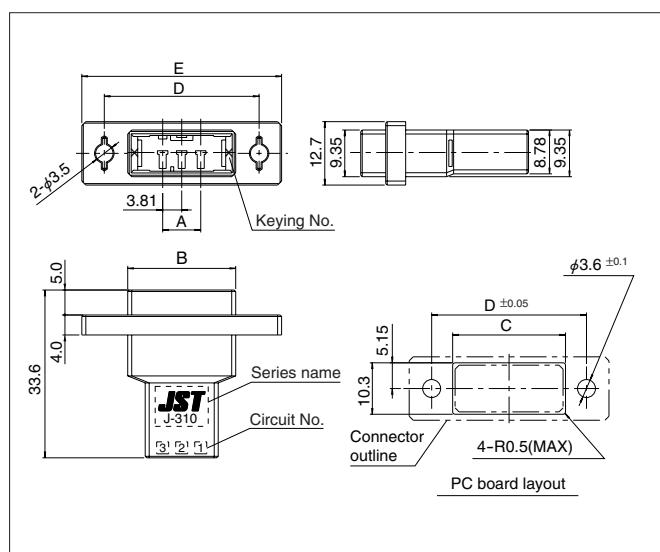
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31MSF-03V-KX	7.62	21.62	25.57	200
	Y	F31MSF-03V-KY	7.62	21.62	25.57	200
5	X	F31MSF-05V-KX	15.24	29.24	33.19	200
	Y	F31MSF-05V-KY	15.24	29.24	33.19	200
8	X	F31MSF-08V-KX	26.67	40.67	44.62	100
	Y	F31MSF-08V-KY	26.67	40.67	44.62	100
10	X	F31MSF-10V-KX	34.29	48.29	52.24	100
	Y	F31MSF-10V-KY	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



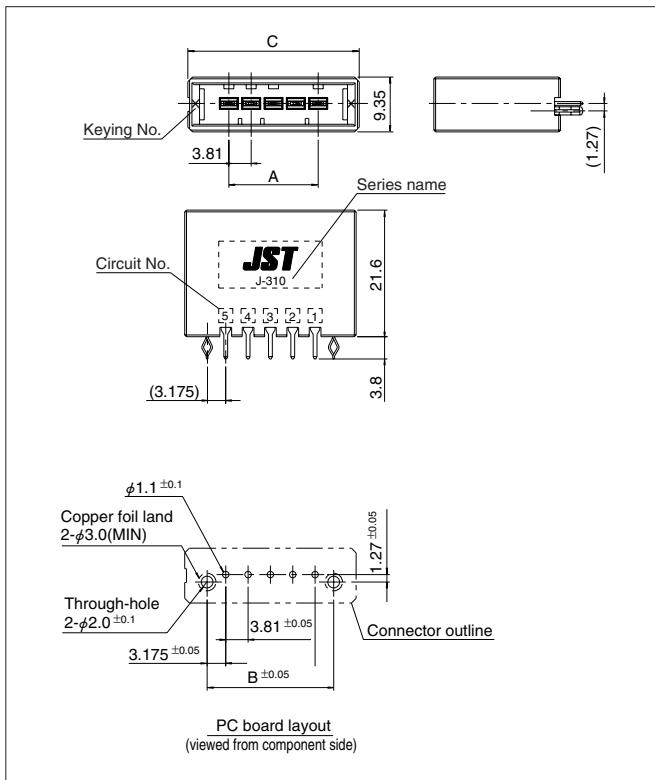
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
3	X	F31MSP-03V-KX	7.62	21.62	22.60	31.00	40.00	200
	Y	F31MSP-03V-KY	7.62	21.62	22.60	31.00	40.00	200
5	X	F31MSP-05V-KX	15.24	29.24	30.20	38.00	47.00	200
	Y	F31MSP-05V-KY	15.24	29.24	30.20	38.00	47.00	200
8	X	F31MSP-08V-KX	26.67	40.67	41.60	50.00	59.00	100
	Y	F31MSP-08V-KY	26.67	40.67	41.60	50.00	59.00	100
10	X	F31MSP-10V-KX	34.29	48.29	49.20	58.00	67.00	100
	Y	F31MSP-10V-KY	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	B03B-F31SK-GGXR	7.62	13.97	21.62	220
	Y	B03B-F31SK-GGYR	7.62	13.97	21.62	220
4	X	B04B-F31SK-GGXR	11.43	17.78	25.43	180
	Y	B04B-F31SK-GGYR	11.43	17.78	25.43	180
5	X	B05B-F31SK-GGXR	15.24	21.59	29.24	160
	Y	B05B-F31SK-GGYR	15.24	21.59	29.24	160
6	X	B06B-F31SK-GGXR	19.05	25.40	33.05	140
	Y	B06B-F31SK-GGYR	19.05	25.40	33.05	140
8	X	B08B-F31SK-GGXR	26.67	33.02	40.67	120
	Y	B08B-F31SK-GGYR	26.67	33.02	40.67	120
10	X	B10B-F31SK-GGXR	34.29	40.64	48.29	100
	Y	B10B-F31SK-GGYR	34.29	40.64	48.29	100

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

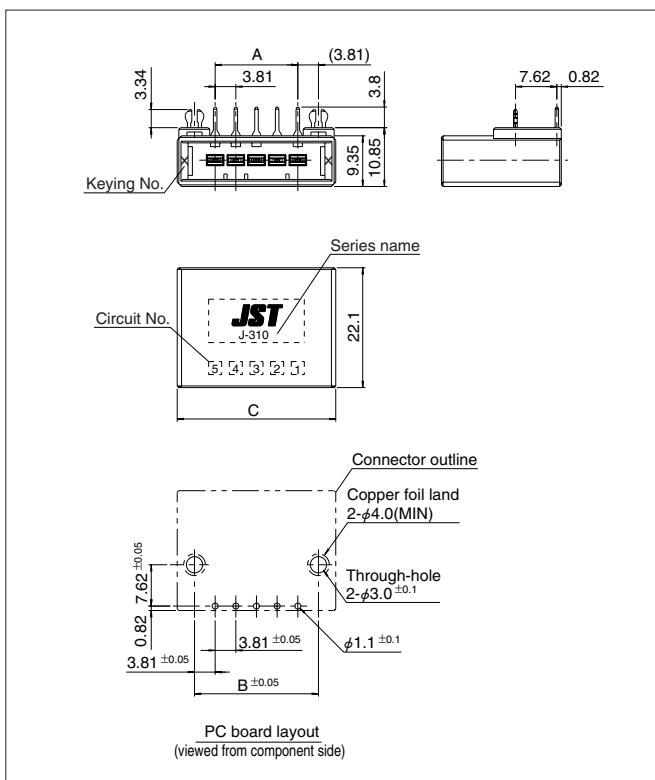
RoHS compliance

This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	S03B-F31SK-GGXR	7.62	15.24	21.62	165
	Y	S03B-F31SK-GGYR	7.62	15.24	21.62	165
4	X	S04B-F31SK-GGXR	11.43	19.05	25.43	135
	Y	S04B-F31SK-GGYR	11.43	19.05	25.43	135
5	X	S05B-F31SK-GGXR	15.24	22.86	29.24	120
	Y	S05B-F31SK-GGYR	15.24	22.86	29.24	120
6	X	S06B-F31SK-GGXR	19.05	26.67	33.05	105
	Y	S06B-F31SK-GGYR	19.05	26.67	33.05	105
8	X	S08B-F31SK-GGXR	26.67	34.29	40.67	90
	Y	S08B-F31SK-GGYR	26.67	34.29	40.67	90
10	X	S10B-F31SK-GGXR	34.29	41.91	48.29	75
	Y	S10B-F31SK-GGYR	34.29	41.91	48.29	75

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

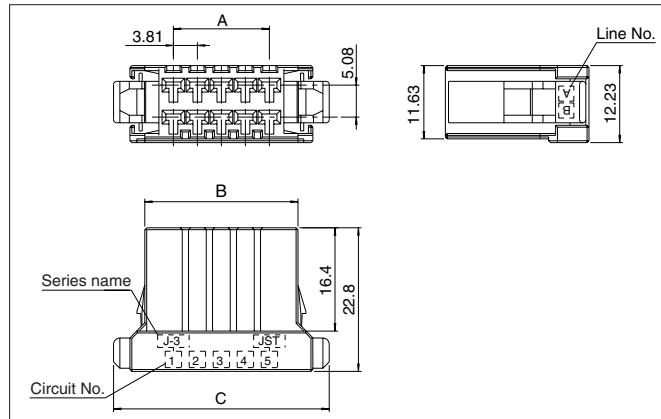
This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

J300 SERIES/J310D

Receptacle housing



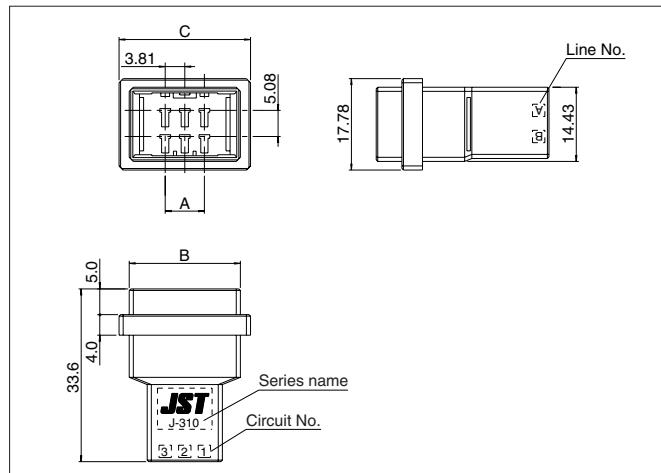
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
6	—	F31FDS-06V-K	7.62	16.70	26.62	200
8	—	F31FDS-08V-K	11.43	20.51	30.43	100
10	—	F31FDS-10V-K	15.24	24.32	34.24	100
12	—	F31FDS-12V-K	19.05	28.13	38.05	100
16	—	F31FDS-16V-K	26.67	35.75	45.67	100
20	—	F31FDS-20V-K	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



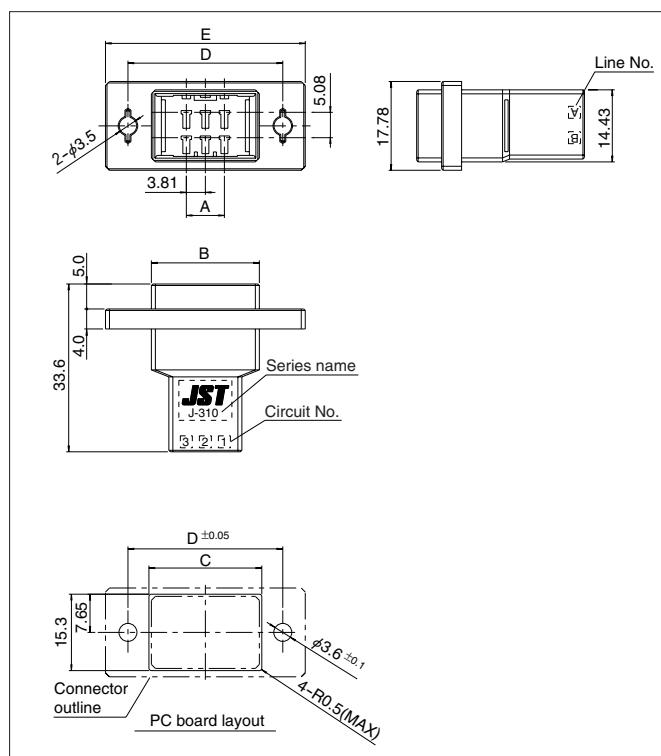
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
6	—	F31MDF-06V-K	7.62	21.62	25.57	200
8	—	F31MDF-08V-K	11.43	25.43	29.38	100
10	—	F31MDF-10V-K	15.24	29.24	33.19	100
12	—	F31MDF-12V-K	19.05	33.05	37.00	100
16	—	F31MDF-16V-K	26.67	40.67	44.62	100
20	—	F31MDF-20V-K	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



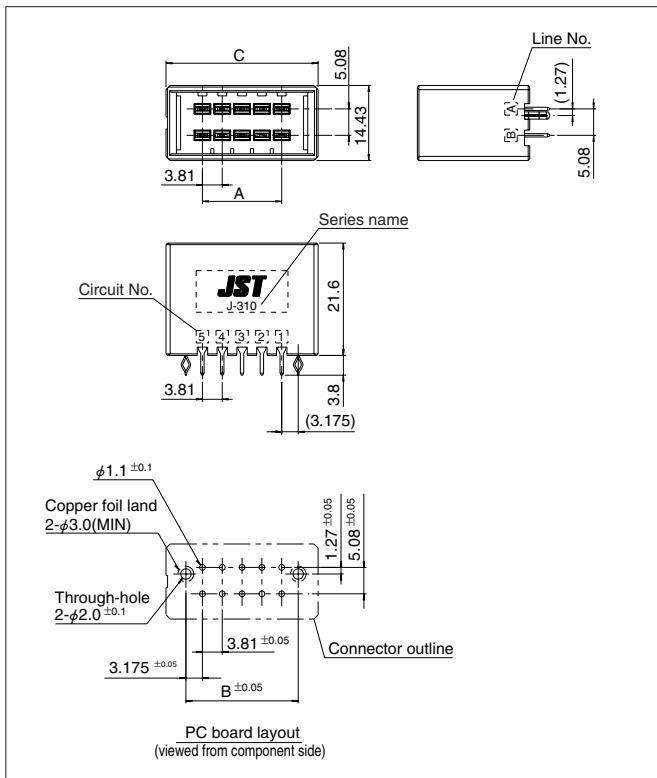
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty /bag
			A	B	C	D	E	
6	—	F31MDP-06V-K	7.62	21.62	22.60	31.00	40.00	200
8	—	F31MDP-08V-K	11.43	25.43	26.40	34.50	43.50	100
10	—	F31MDP-10V-K	15.24	29.24	30.20	38.00	47.00	100
12	—	F31MDP-12V-K	19.05	33.05	34.00	42.00	51.00	100
16	—	F31MDP-16V-K	26.67	40.67	41.60	50.00	59.00	100
20	—	F31MDP-20V-K	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	B06B-F31DK-GGR	7.62	13.97	21.62	132
8	—	B08B-F31DK-GGR	11.43	17.78	25.43	108
10	—	B10B-F31DK-GGR	15.24	21.59	29.24	96
12	—	B12B-F31DK-GGR	19.05	25.40	33.05	84
16	—	B16B-F31DK-GGR	26.67	33.02	40.67	72
20	—	B20B-F31DK-GGR	34.29	40.64	48.29	60

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

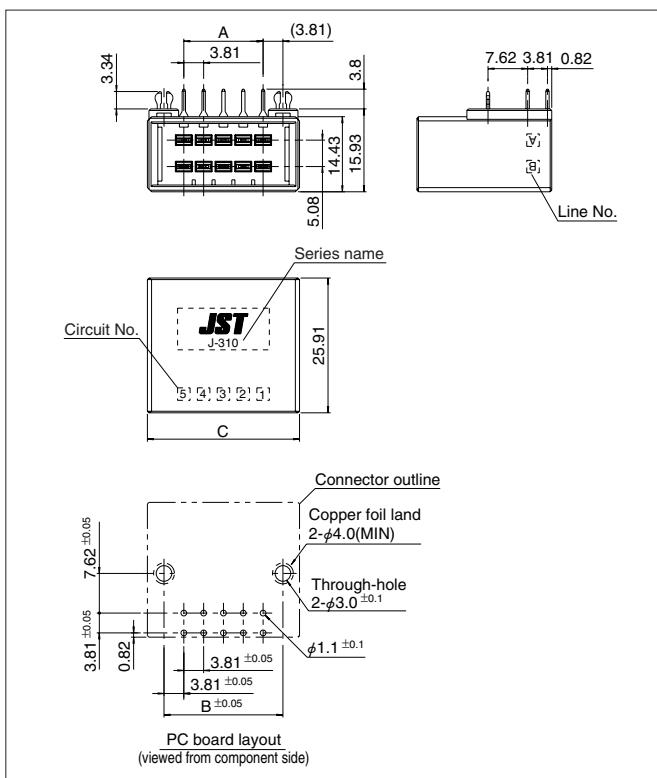
RoHS compliance

This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	S06B-F31DK-GGR	7.62	15.24	21.62	88
8	—	S08B-F31DK-GGR	11.43	19.05	25.43	72
10	—	S10B-F31DK-GGR	15.24	22.86	29.24	64
12	—	S12B-F31DK-GGR	19.05	26.67	33.05	56
16	—	S16B-F31DK-GGR	26.67	34.29	40.67	48
20	—	S20B-F31DK-GGR	34.29	41.91	48.29	40

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

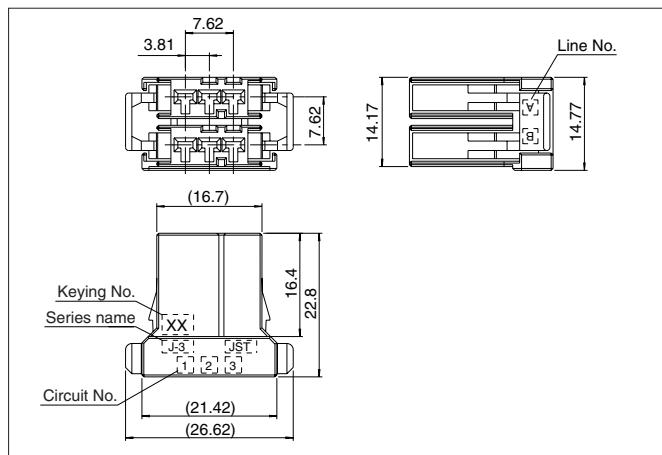
This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

J300 SERIES/J310M

Receptacle housing



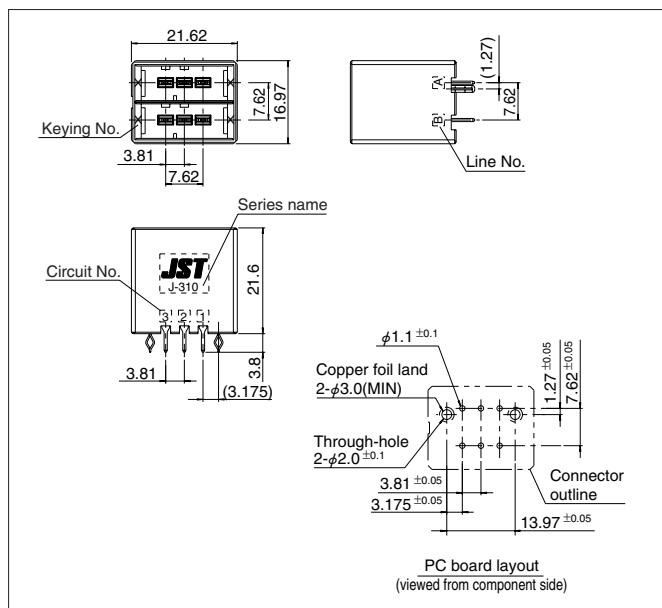
Circuits	Keying	Model No.	Q'ty / box
6	XX	F31FMS-06V-KXX	100
	YY	F31FMS-06V-KYY	100
	XY	F31FMS-06V-KXY	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Q'ty / box
6	XX	B06B-F31MK-GGXXR	132
	YY	B06B-F31MK-GGYYR	132
	XY	B06B-F31MK-GGXYSR	132

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

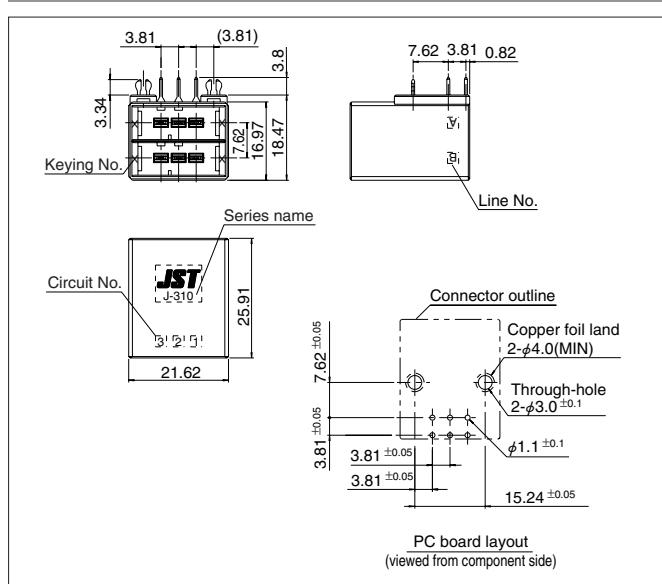
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Q'ty / box
6	XX	S06B-F31MK-GGXXR	88
	YY	S06B-F31MK-GGYYR	88
	XY	S06B-F31MK-GGXYSR	88

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

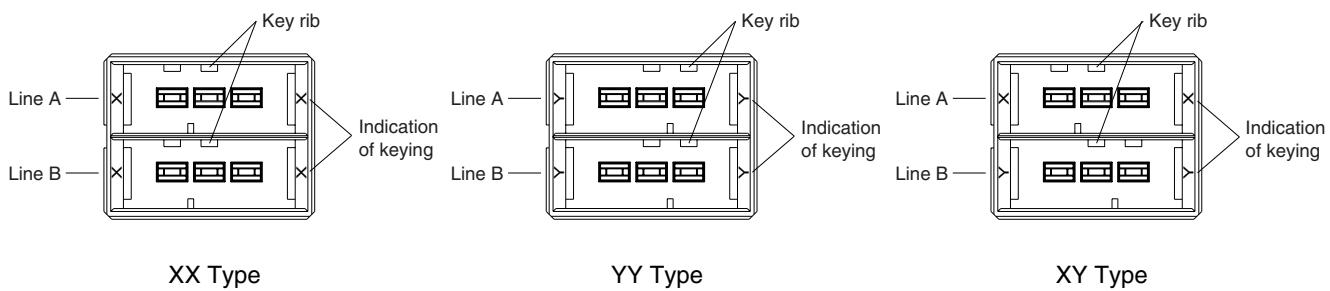
RoHS compliance

This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Keying

J310M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

With the combination of the J310M headers and the J310M/J310S (3 circuits) receptacle housings, the following modular combinations are possible.

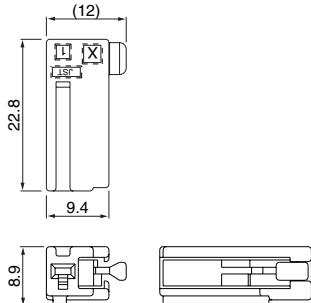
Receptacle housing		Header			
		Top entry type		Side entry type	
	X Type F31FSS-03V-KX				
	Y Type F31FSS-03V-KY				
	XX Type F31FMS-06V-KXX				
	YY Type F31FMS-06V-KYY				
	XY Type F31FMS-06V-KXY				

Note: Packaging method is indicated in ■. (R=Tray)

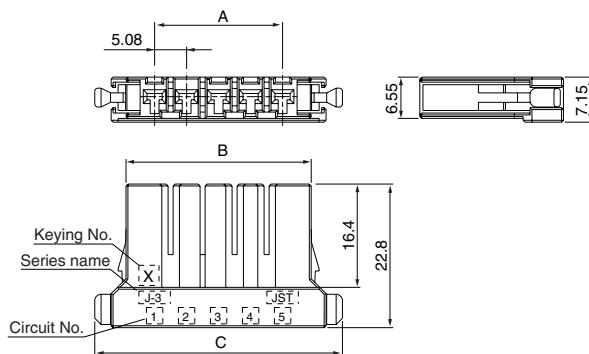
J300 SERIES/J320S

Receptacle housing

- Single circuit



- 2 to 6 circuits



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32FSS-01V-KX	—	—	—	200
	Y	F32FSS-01V-KY	—	—	—	200
2	X	F32FSS-02V-KX	5.08	14.16	24.08	200
	Y	F32FSS-02V-KY	5.08	14.16	24.08	200
3	X	F32FSS-03V-KX	10.16	19.24	29.16	200
	Y	F32FSS-03V-KY	10.16	19.24	29.16	200
4	X	F32FSS-04V-KX	15.24	24.32	34.24	200
	Y	F32FSS-04V-KY	15.24	24.32	34.24	200
5	X	F32FSS-05V-KX	20.32	29.40	39.32	200
	Y	F32FSS-05V-KY	20.32	29.40	39.32	200
6	X	F32FSS-06V-KX	25.40	34.48	44.40	100
	Y	F32FSS-06V-KY	25.40	34.48	44.40	100

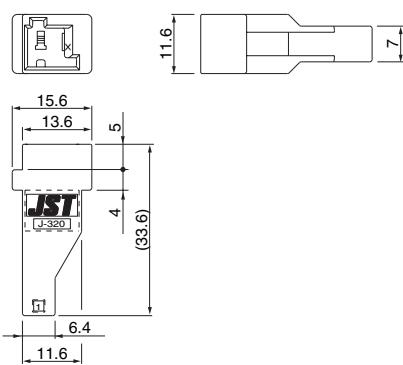
Material

Glass-filled PBT, UL94V-0, black

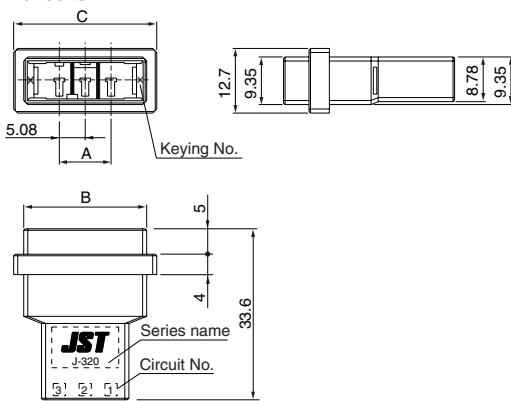
RoHS compliance

Tab housing (Free hanging type)

- Single circuit



- 2 to 4 circuits



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32MSF-01V-KX	—	—	—	150
	Y	F32MSF-01V-KY	—	—	—	150
2	X	F32MSF-02V-KX	5.08	19.08	23.03	200
	Y	F32MSF-02V-KY	5.08	19.08	23.03	200
3	X	F32MSF-03V-KX	10.16	24.16	28.11	200
	Y	F32MSF-03V-KY	10.16	24.16	28.11	200
4	X	F32MSF-04V-KX	15.24	29.24	33.19	200
	Y	F32MSF-04V-KY	15.24	29.24	33.19	200

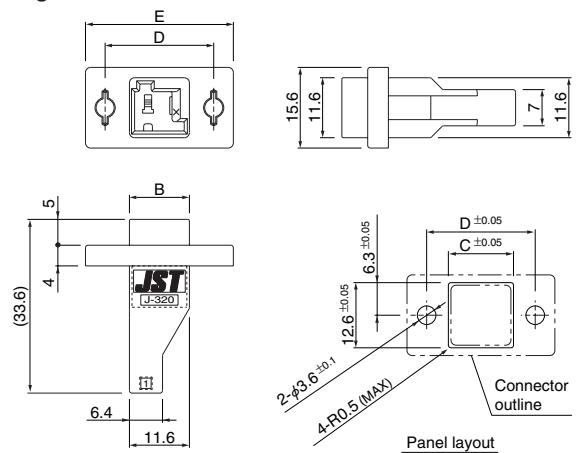
Material

Glass-filled PBT, UL94V-0, black

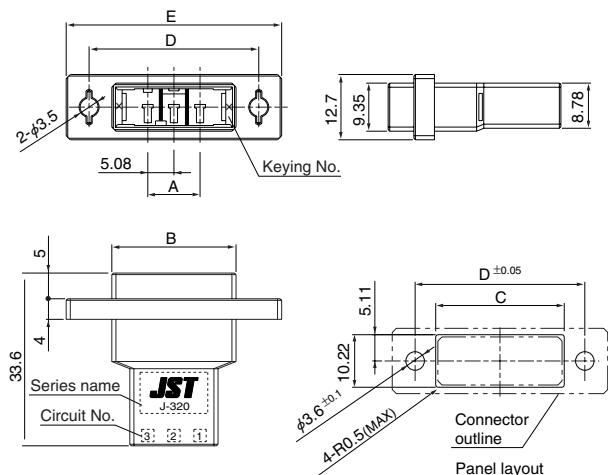
RoHS compliance

Tab housing (Panel mounting type)

• Single circuit



• 2 to 4 circuits



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
1	X	F32MSP-01V-KX	—	11.60	12.60	21.00	28.60	150
	Y	F32MSP-01V-KY	—	11.60	12.60	21.00	28.60	150
2	X	F32MSP-02V-KX	5.08	19.08	20.00	28.00	36.83	200
	Y	F32MSP-02V-KY	5.08	19.08	20.00	28.00	36.83	200
3	X	F32MSP-03V-KX	10.16	24.16	25.00	33.00	41.91	200
	Y	F32MSP-03V-KY	10.16	24.16	25.00	33.00	41.91	200
4	X	F32MSP-04V-KX	15.24	29.24	30.00	38.00	46.99	200
	Y	F32MSP-04V-KY	15.24	29.24	30.00	38.00	46.99	200

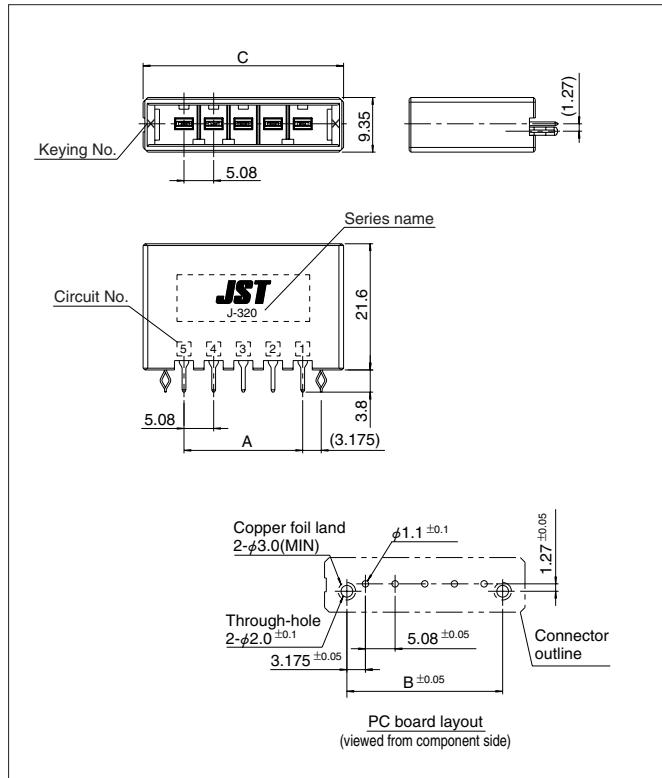
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320S

Header (Top entry type)



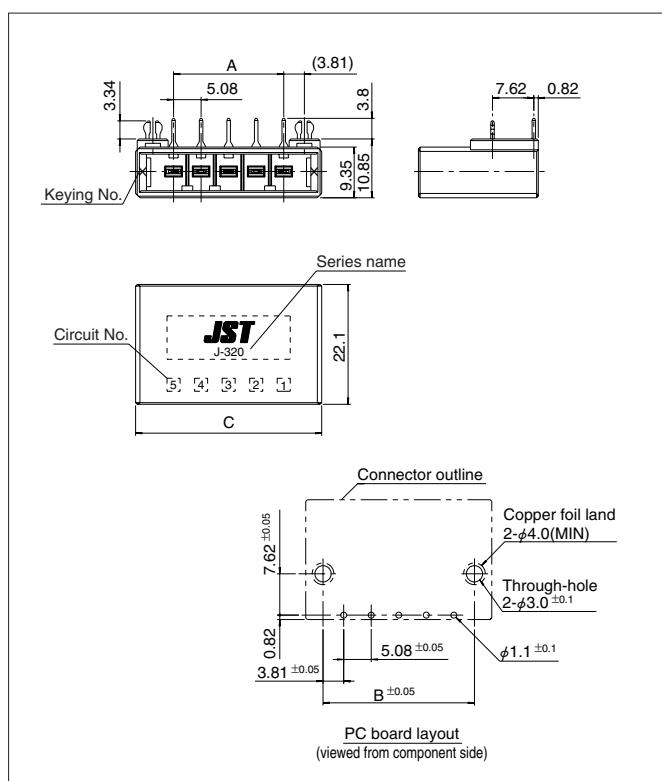
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	B02B-F32SK-GGXCR	5.08	11.43	19.08	240
	Y	B02B-F32SK-GGYR	5.08	11.43	19.08	240
3	X	B03B-F32SK-GGXCR	10.16	16.51	24.16	200
	Y	B03B-F32SK-GGYR	10.16	16.51	24.16	200
4	X	B04B-F32SK-GGXCR	15.24	21.59	29.24	160
	Y	B04B-F32SK-GGYR	15.24	21.59	29.24	160
5	X	B05B-F32SK-GGXCR	20.32	26.67	34.32	140
	Y	B05B-F32SK-GGYR	20.32	26.67	34.32	140
6	X	B06B-F32SK-GGXCR	25.40	31.75	39.40	120
	Y	B06B-F32SK-GGYR	25.40	31.75	39.40	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 µm gold-plated product and tin-plated product.

Header (Side entry type)



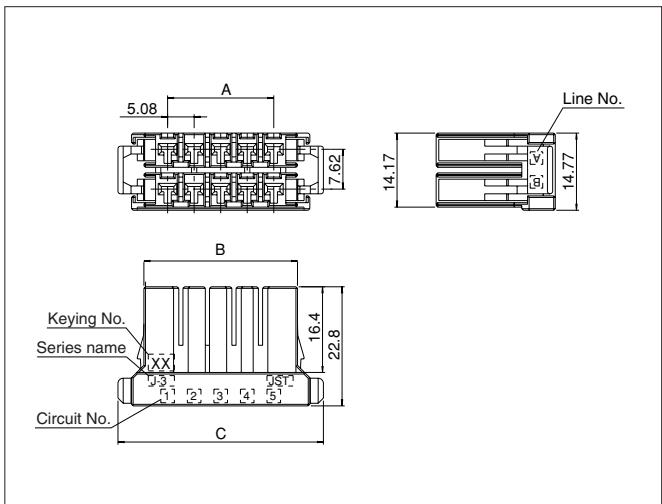
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	S02B-F32SK-GGXCR	5.08	12.70	19.08	180
	Y	S02B-F32SK-GGYR	5.08	12.70	19.08	180
3	X	S03B-F32SK-GGXCR	10.16	17.78	24.16	150
	Y	S03B-F32SK-GGYR	10.16	17.78	24.16	150
4	X	S04B-F32SK-GGXCR	15.24	22.86	29.24	120
	Y	S04B-F32SK-GGYR	15.24	22.86	29.24	120
5	X	S05B-F32SK-GGXCR	20.32	27.94	34.32	105
	Y	S05B-F32SK-GGYR	20.32	27.94	34.32	105
6	X	S06B-F32SK-GGXCR	25.40	33.02	39.40	90
	Y	S06B-F32SK-GGYR	25.40	33.02	39.40	90

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 µm gold-plated product and tin-plated product.

Receptacle housing



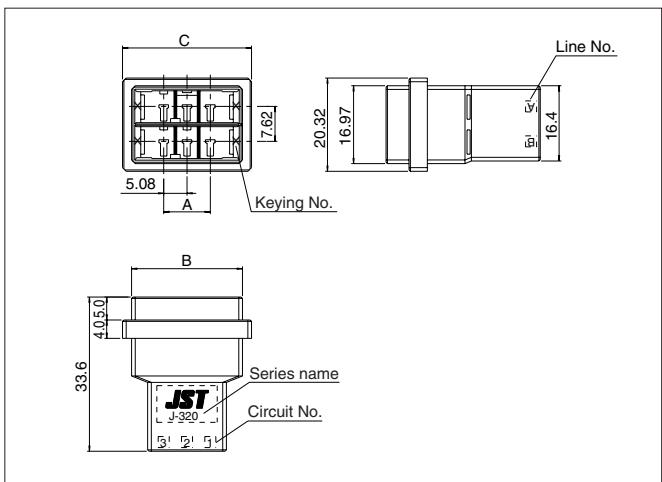
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32FMS-06V-KXX	10.16	19.24	29.16	100
	YY	F32FMS-06V-KYY	10.16	19.24	29.16	100
	XY	F32FMS-06V-KXY	10.16	19.24	29.16	100
10	XX	F32FMS-10V-KXX	20.32	29.40	39.32	100
	YY	F32FMS-10V-KYY	20.32	29.40	39.32	100
	XY	F32FMS-10V-KXY	20.32	29.40	39.32	100
12	XX	F32FMS-12V-KXX	25.40	34.48	44.40	100
	YY	F32FMS-12V-KYY	25.40	34.48	44.40	100
	XY	F32FMS-12V-KXY	25.40	34.48	44.40	100
20	XX	F32FMS-20V-KXX	45.72	54.80	64.72	96(box)
	YY	Under planning	—	—	—	—
	XY	Under planning	—	—	—	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



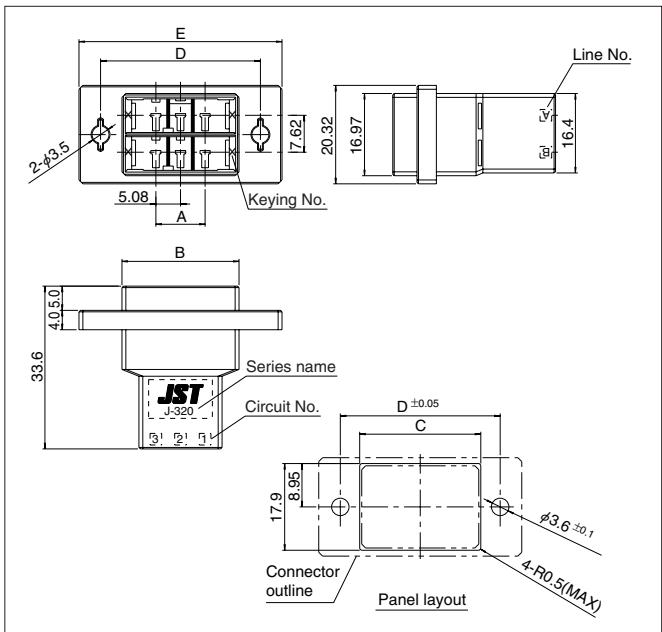
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32MDF-06V-KXX	10.16	24.16	28.11	100
	YY	F32MDF-06V-KYY	10.16	24.16	28.11	100
	XY	F32MDF-06V-KXY	10.16	24.16	28.11	100
12	XX	F32MDF-12V-KXX	25.40	39.40	43.35	100
	YY	F32MDF-12V-KYY	25.40	39.40	43.35	100
	XY	F32MDF-12V-KXY	25.40	39.40	43.35	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	XX	F32MDP-06V-KXX	10.16	24.16	25.00	33.00	41.91	100
	YY	F32MDP-06V-KYY	10.16	24.16	25.00	33.00	41.91	100
	XY	F32MDP-06V-KXY	10.16	24.16	25.00	33.00	41.91	100
12	XX	F32MDP-12V-KXX	25.40	39.40	41.00	49.00	57.91	100
	YY	F32MDP-12V-KYY	25.40	39.40	41.00	49.00	57.91	100
	XY	F32MDP-12V-KXY	25.40	39.40	41.00	49.00	57.91	100
20	XX	F32MDP-20V-KXX	45.72	59.72	61.00	70.00	78.23	40(box)
	YY	Under planning	—	—	—	—	—	—
	XY	Under planning	—	—	—	—	—	—

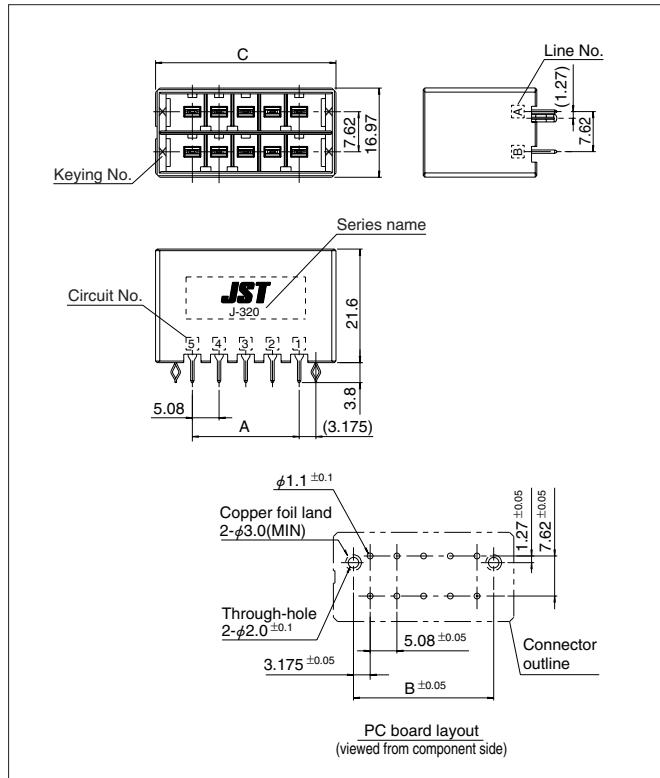
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320M

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	B06B-F32MK-GGXXR	10.16	16.51	24.16	120
	YY	B06B-F32MK-GGYR	10.16	16.51	24.16	120
	XY	B06B-F32MK-GGXRY	10.16	16.51	24.16	120
10	XX	B10B-F32MK-GGXXR	20.32	26.67	34.32	84
	YY	B10B-F32MK-GGYR	20.32	26.67	34.32	84
	XY	B10B-F32MK-GGXRY	20.32	26.67	34.32	84
12	XX	B12B-F32MK-GGXXR	25.40	31.75	39.40	72
	YY	B12B-F32MK-GGYR	25.40	31.75	39.40	72
	XY	B12B-F32MK-GGXRY	25.40	31.75	39.40	72

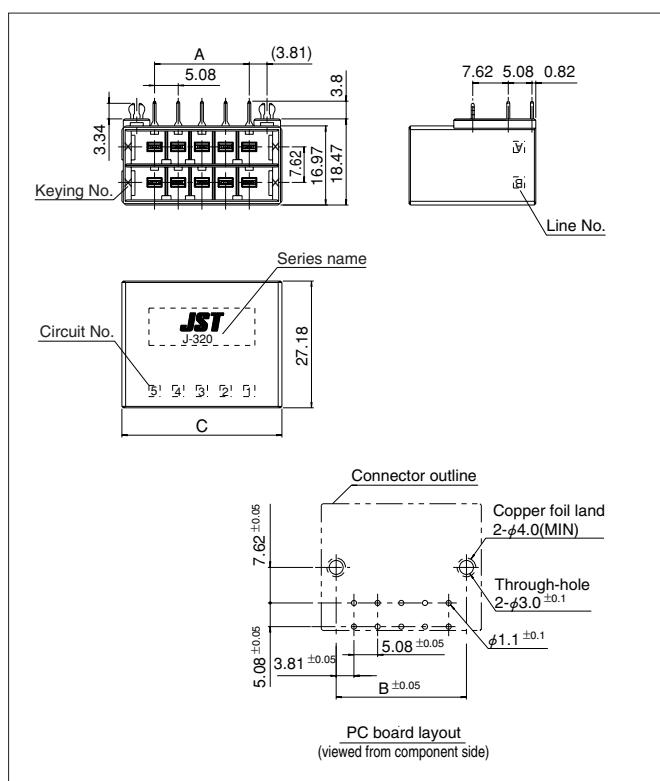
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 µm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	S06B-F32MK-GGXXR	10.16	17.78	24.16	80
	YY	S06B-F32MK-GGYR	10.16	17.78	24.16	80
	XY	S06B-F32MK-GGXRY	10.16	17.78	24.16	80
8	XY	S08B-F32MK-GGXRY	15.24	22.86	29.24	64
	XX	S10B-F32MK-GGXXR	20.32	27.94	34.32	56
	YY	S10B-F32MK-GGYR	20.32	27.94	34.32	56
10	XY	S10B-F32MK-GGXRY	20.32	27.94	34.32	56
	XX	S12B-F32MK-GGXXR	25.40	33.02	39.40	48
	YY	S12B-F32MK-GGYR	25.40	33.02	39.40	48
12	XY	S12B-F32MK-GGXRY	25.40	33.02	39.40	48

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

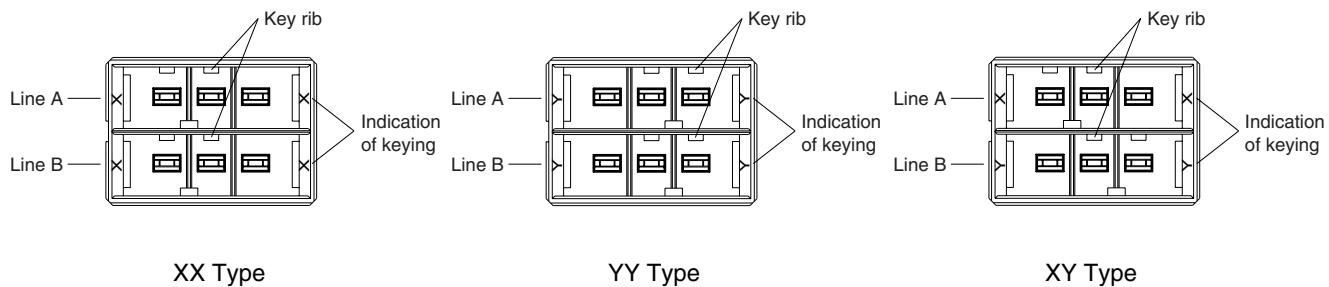
This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 µm gold-plated product and tin-plated product.

Keying

J320M series have mis-insertion preventive keying.

Available in 3 types – XX type, YY type and XY type.

(Headers viewed from the mating side are shown below.)



List of combinations

With the combination of the J320M headers and the J320M/J320S receptacle housings, the following modular combinations are possible.

Receptacle housing		Tab housing	Header
 Single-row 3, 5, 6 circuits (J320S)	X type F32FSS-■■V-KX	 Single-row 3 circuits (J320S)	 Single-row 3, 5, 6 circuits (J320S)
	Y type F32FSS-■■V-KY	 Free hanging type Single-row 3 circuits (J320S)	 Top entry type Single-row 3, 5, 6 circuits (J320S)
 Double-row 6,10,12,20 circuits (J320M)	XX type F32FMS-■■V-KXX	 Free hanging type Double-row 6,10,12,20 circuits (J320M)	 Double-row 6,10,12 circuits (J320M)
	YY type F32FMS-■■V-KYY	 Panel mounting type Double-row 6,10,12,20 circuits (J320M)	 Side entry type Double-row 6,10,12 circuits (J320M)
	XY type F32FMS-■■V-KXY	 Panel mounting type Double-row 6,10,12,20 circuits (J320M)	 Side entry type Double-row 6,10,12 circuits (J320M)

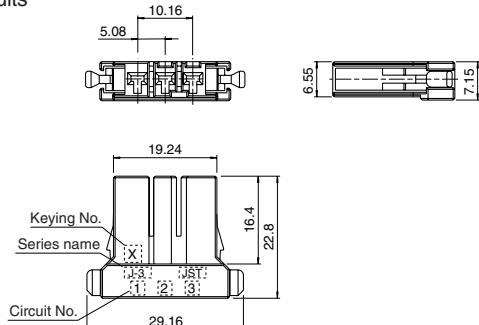
Note: Number of circuits is indicated in ■■.
Packaging method is indicated in ■■■.

J300 SERIES/J320T

Receptacle housing

Single-row type

- 3 circuits



Circuits	Keying	Model No.	Q'ty / bag
3	X	F32FSS-03V-KX	200
	Y	F32FSS-03V-KY	200

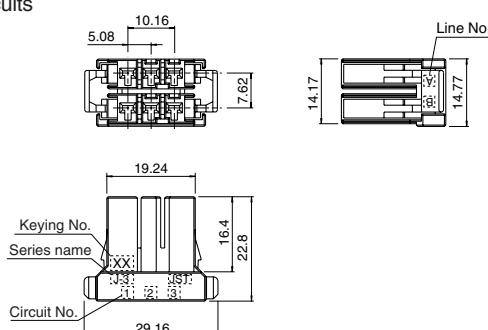
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Double-row type

- 6 circuits



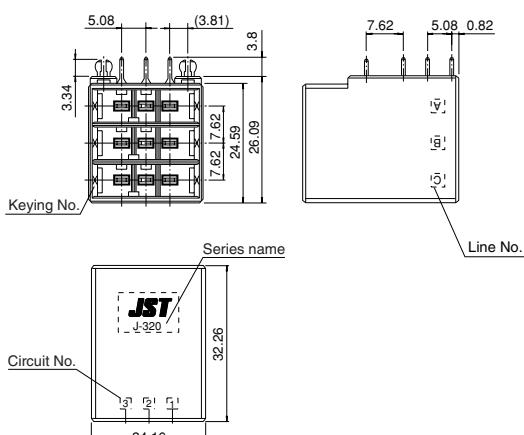
Circuits	Keying	Model No.	Q'ty / bag
6	XX	F32FMS-06V-KXX	100
	YY	F32FMS-06V-KYY	100
	XY	F32FMS-06V-KXY	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Side entry type)



Circuits	Keying	Model No.	Q'ty / box
9	XXX	S09B-F32TK-GGXAR	42
	XXY	S09B-F32TK-GGXBR	42
	XYX	S09B-F32TK-GGXCR	42
	YYX	S09B-F32TK-GGXDR	42

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

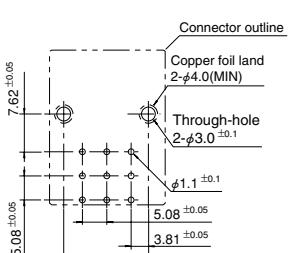
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

This product displays (LF)(AU) on a label.

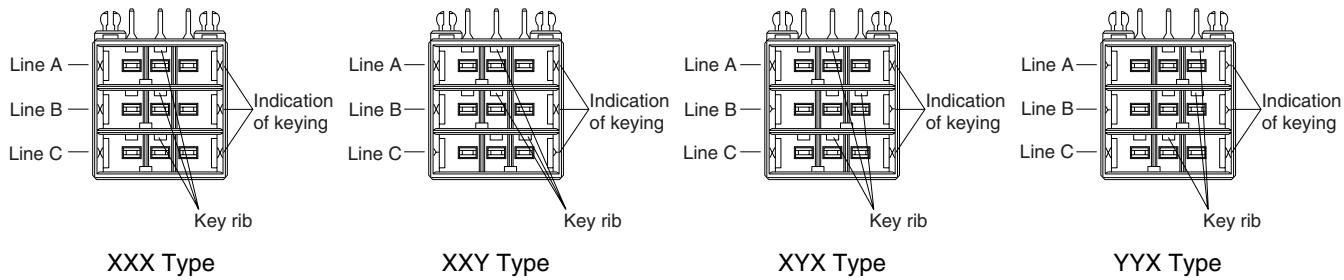
Note: 1. Contact JST for tin-plated product.

2. Not CSA/TÜV approved



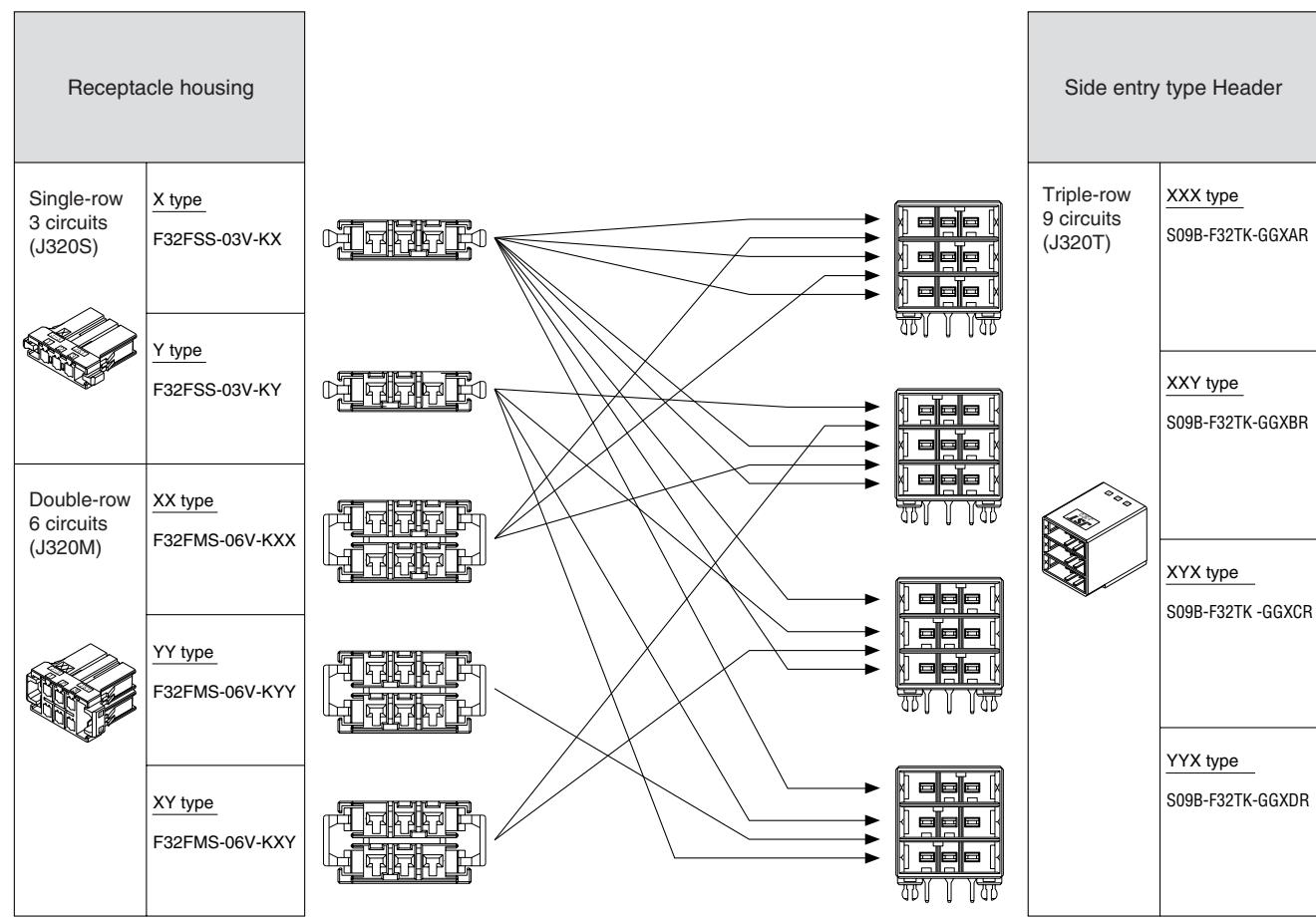
Keying

J320T series have mis-insertion preventive keying.
Available in 4 types – XXX type, XXY type, XYX type and YYX type.
(Headers viewed from the mating side are shown below.)



List of combinations

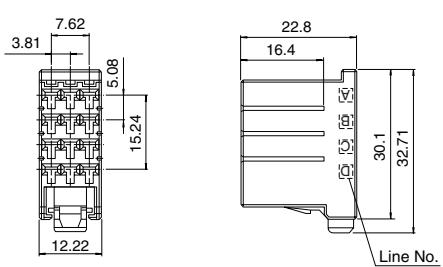
With the combination of the J320T headers and the J320S/J320M receptacle housings,
the following modular combinations are possible.



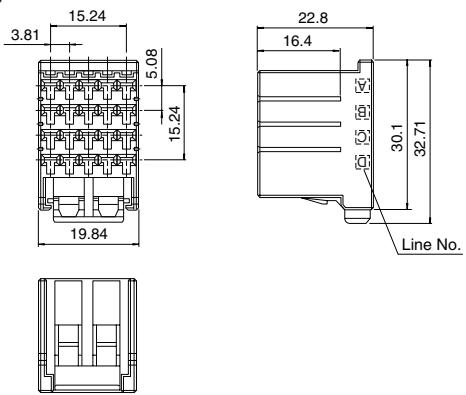
J300 SERIES/J340F

Receptacle housing

- 12 circuits



- 20 circuits



Circuits	Keying	Model No.	Q'ty / bag
12	—	F34FFC-12V-K	100
20	—	F34FFC-20V-K	100

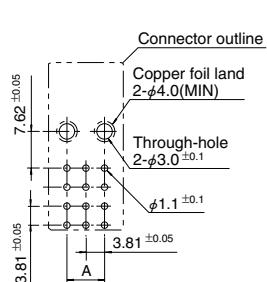
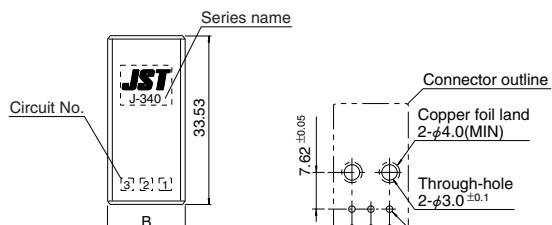
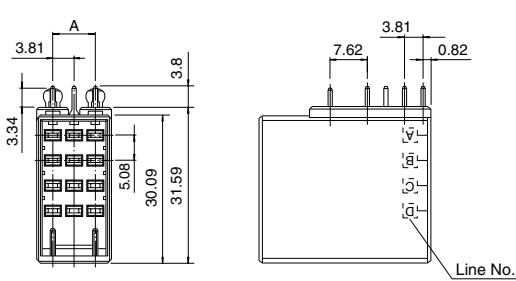
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Header (Side entry type)



PC board layout
(viewed from component side)

Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	SC12B-F34FK-GGR	7.62	15.02	63
20	—	SC20B-F34FK-GGR	15.24	22.64	42

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

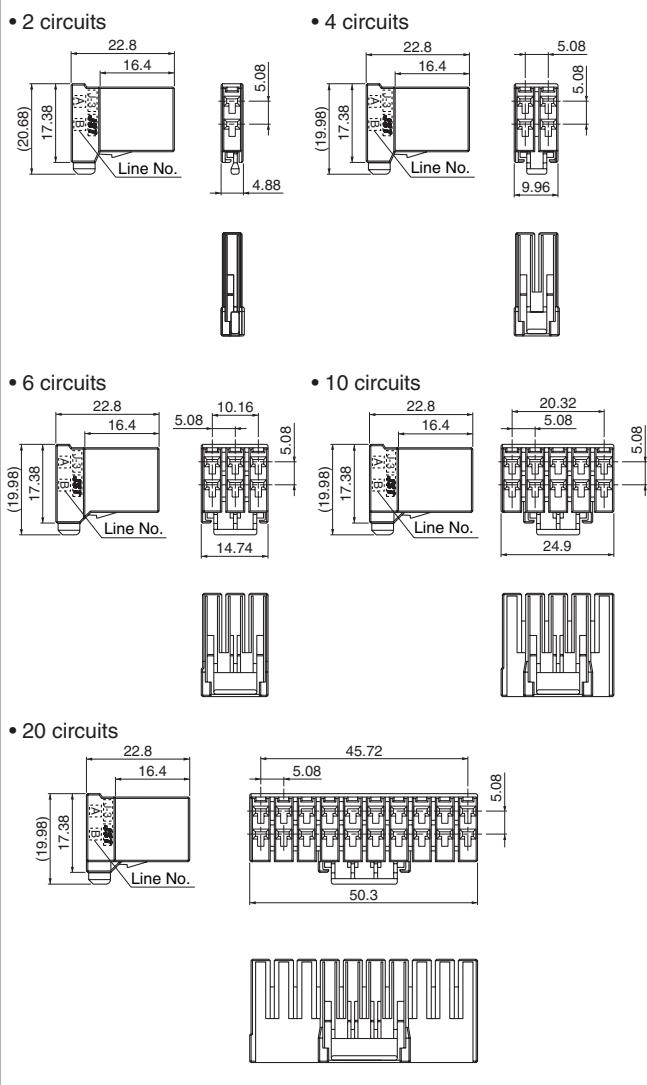
RoHS compliance

This product displays (LF)(AU) on a label.

Note: 1. Contact JST for tin-plated product.

2. Not CSA/TÜV approved

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100
20	—	F35FDC-20V-K	100

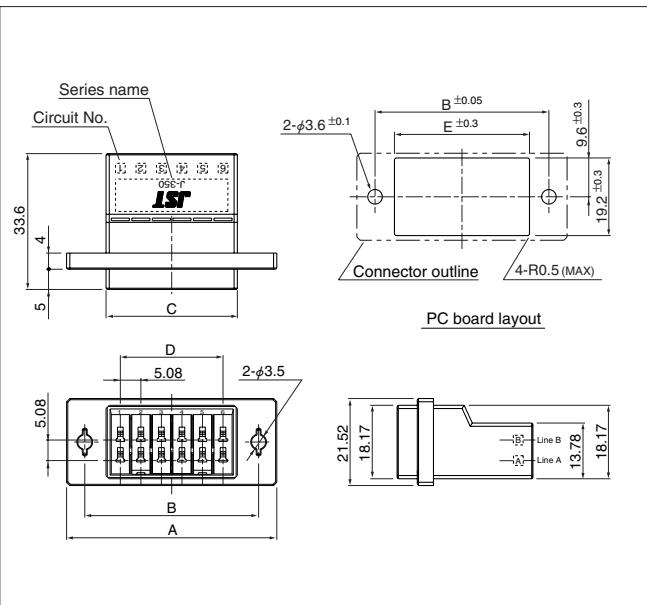
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
12	—	F35MDP-12V-K	52.00	43.00	32.48	25.40	33.40	41

Material

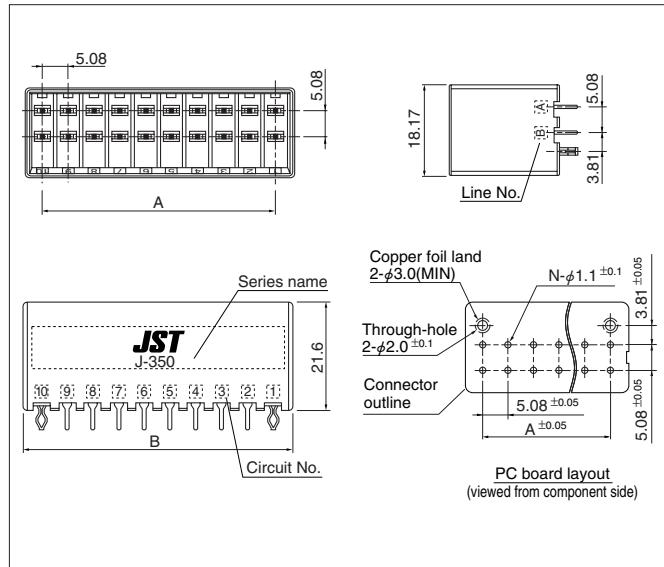
Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/UL/TÜV approved.

J300 SERIES/J350D

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	BC12B-F35DK-GGR	25.4	32.48	56
20	—	BC20B-F35DK-GGR	45.72	52.8	32

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

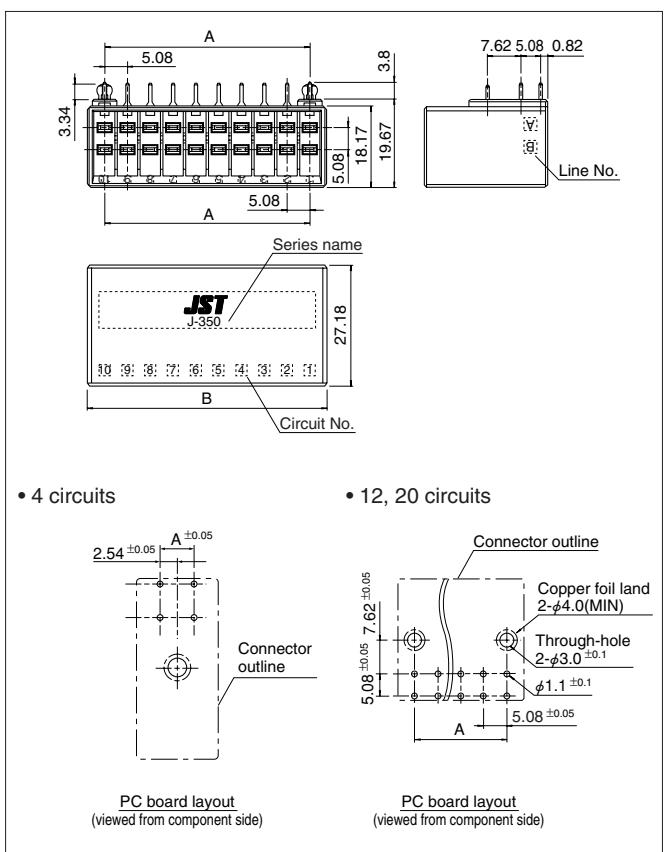
RoHS compliance

This product displays (LF)(AU) on a label.

Note: 1. Contact JST for tin-plated product.

2. Not CSA/TÜV approved

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
4	—	SC04B-F35DK-GGR	5.08	12.16	152
12	—	SC12B-F35DK-GGR	25.4	32.48	56
20	—	SC20B-F35DK-GGR	45.72	52.8	32

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

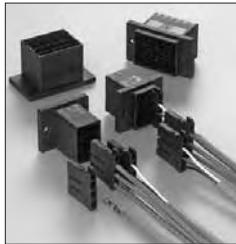
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

This product displays (LF)(AU) on a label.

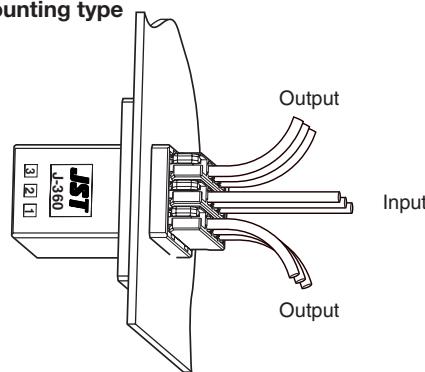
Note: 1. Contact JST for tin-plated product.

2. Not CSA/TÜV approved

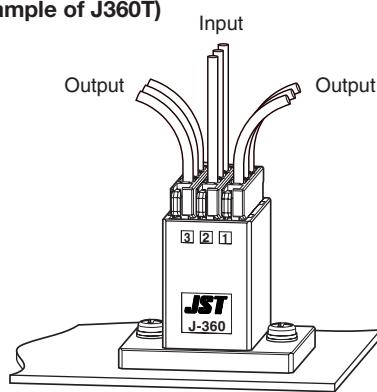


J300 SERIES/COMMON TYPE CONNECTOR

- Panel mounting type



- Direct mounting type
(Example of J360T)



- Receptacle terminal of JFA J300 series can be used.
- Between rows are commonly connected.
- Proposing rationalization of wiring.
- Mounting method of connector.

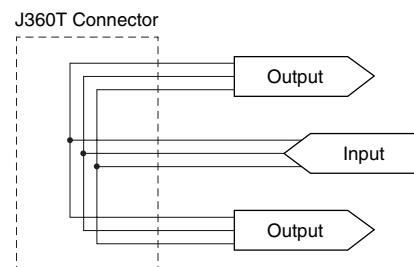
Specifications

- Current rating: 18A AC, DC (18 circuits/AWG #14)
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to ~105°C
(including temperature rise in applying electrical current)

*Contact JST for details.

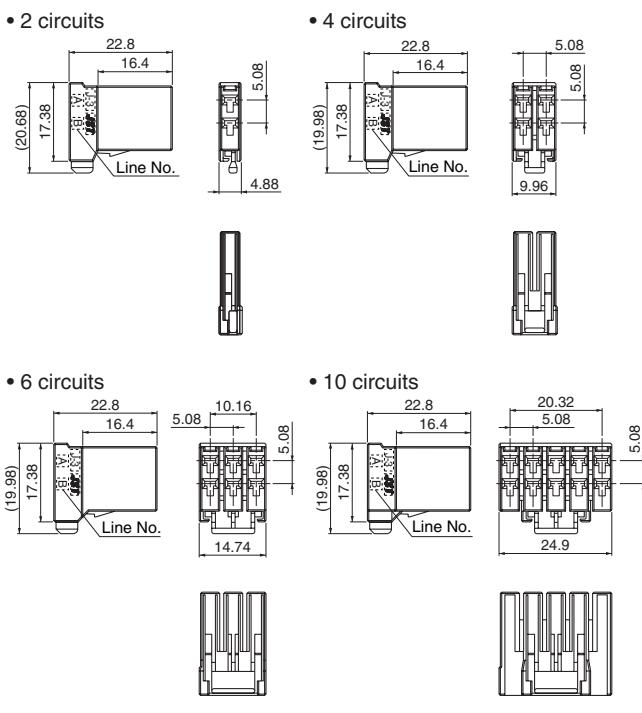
*RoHS compliant products are published.

Circuit figure



COMMON TYPE/J350DC

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing assembly

Circuits	Keying	Model No.	Dimensions (mm)				Q'ty / box
			A	B	C	D	
12	—	P12B-F35DK-GFAR	57.0	44.6	33.08	25.4	196

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

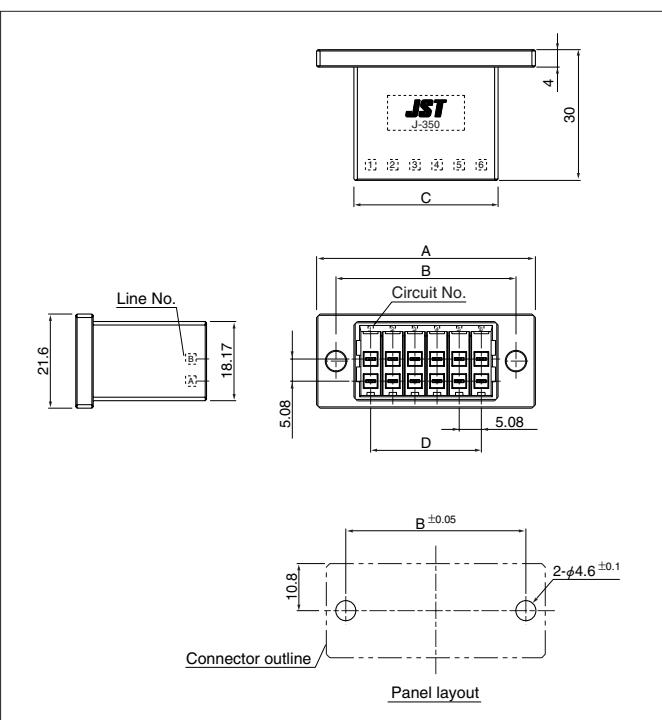
RoHS compliance

This product displays (LF)(AU) on a label.
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

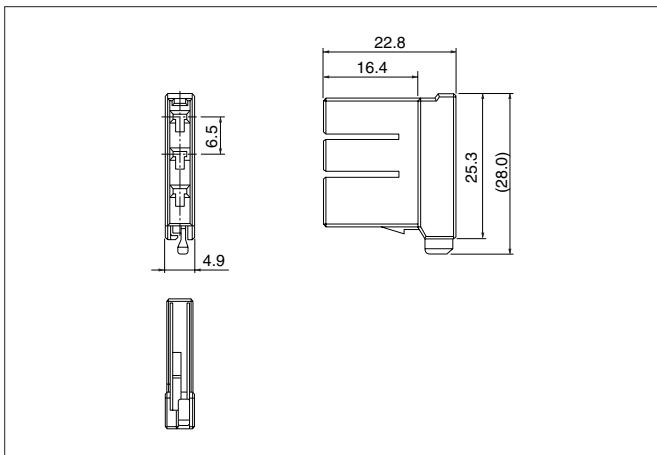
Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. Not CSA/TÜV approved.



Receptacle housing



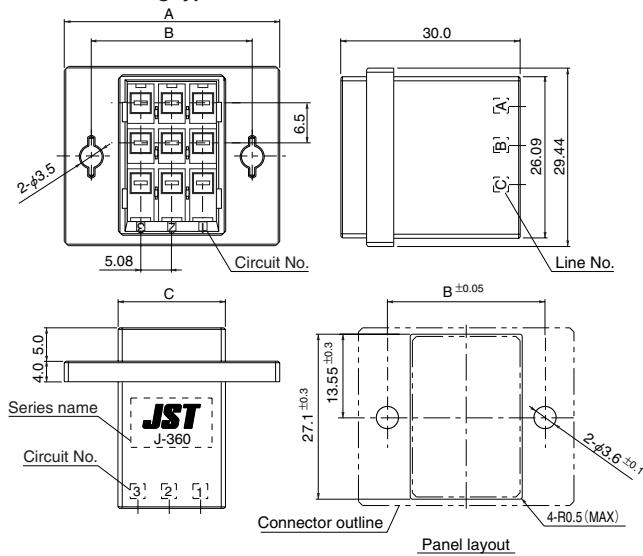
Circuits	Keying	Model No.	Q'ty / bag
3	—	F36FTC-03V-K	200
Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing assembly

• Panel mounting type



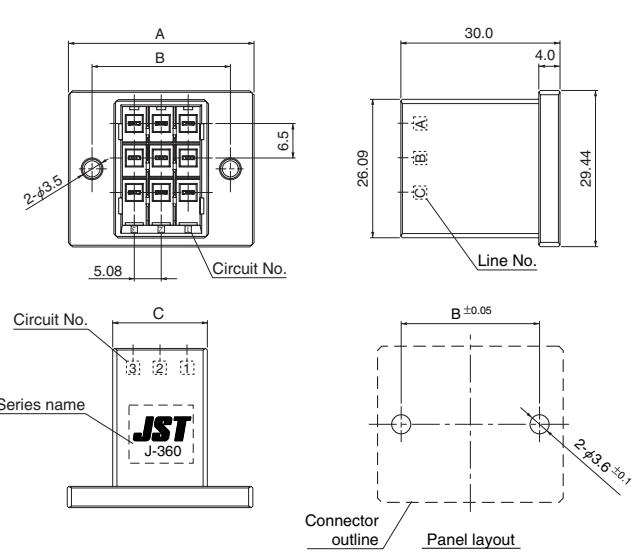
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFR	50.2	41.3	33.1	224
Material and Finish						

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. Not CSA/TÜV approved.

• Direct mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFAR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFAR	50.2	41.3	33.1	224
24	—	P24B-F36TK-GFANR	60.4	51.5	43.2	168
Material and Finish						

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

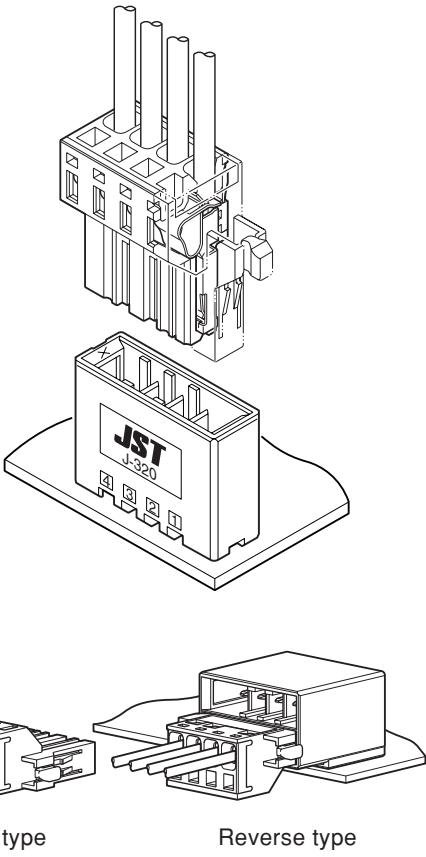
RoHS compliance

Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. There is no cover of common tab side for 24 circuits.
P24B-F36TK-GFANR
N means no cover.
3. The top and bottom for both the logo mark and the series name of 24 circuits reverse against display of 9 or 18 circuits.
4. Not CSA/TÜV approved.



JFA CONNECTOR J-FAT SPRING TYPE

5.08mm pitch/Disconnectable Spring Terminal connectors(Terminal block type)



- No crimp tool is necessary.
- Mating with the JFA J320S/J320M

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 300V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Applicable wire: AWG #18 to #14 (0.82 to 2.0mm²)

*Contact JST for details.

*RoHS compliant products are published.

Current rating

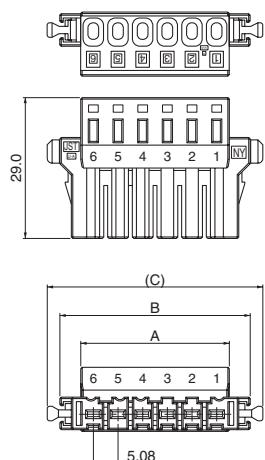
Unit: A

Circuits	Wire size (AWG)		
	#14	#16	#18
3	12.0	11.25	10.0
4	12.0	11.25	10.0
5	11.25	10.5	9.5
6	10.5	9.75	9.0

Standards

■ Recognized E239668 (J-FAT-S-i)

Receptacle assembly (Normal type)



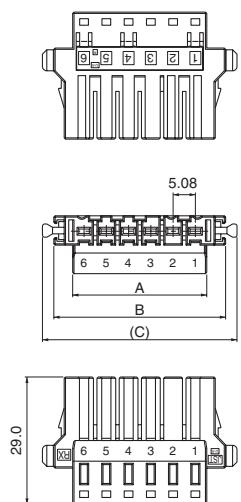
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty /box
			A	B	(C)	
3	X	—				280
	Y	03JFAT-SAYGF- I	15.36	23.96	29.16	
4	X	—				245
	Y	04JFAT-SAYGF- I	20.44	29.04	34.24	
5	X	—				—
	Y	05JFAT-SAYGF- I	25.52	34.12	39.32	
6	X	—				175
	Y	06JFAT-SAYGF- I	30.60	39.20	44.40	

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Cover: Glass-filled PBT, UL94V-0, black
Spring: Stainless

RoHS compliance

Receptacle assembly (Reverse type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty /box
			A	B	(C)	
3	X	—				280
	Y	03JFAT-SBYGF- I	15.36	23.96	29.16	
4	X	04JFAT-SBXGF- I	20.44	29.04	34.24	245
	Y	—				
5	X	05JFAT-SBXGF- I	25.52	34.12	39.32	210
	Y	—				
6	X	06JFAT-SBXGF- I	30.60	39.20	44.40	175
	Y	—				

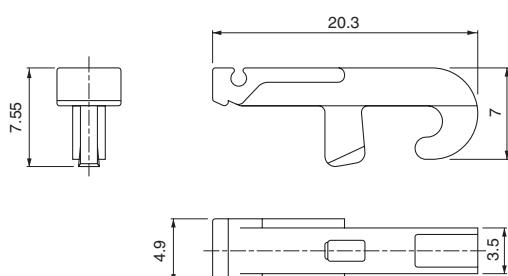
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Cover: Glass-filled PBT, UL94V-0, white
Spring: Stainless

RoHS compliance

Open tool

Model No.: J-FAT-OT



RoHS compliance

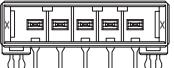
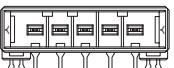
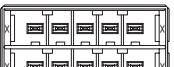
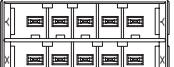
J300 SERIES/J-FAT-S-i

List of combinations

J-FAT-S-i is used with the following combinations.

J-FAT-S-i Normal type	
X Keying	Planning
Y Keying	

J-FAT-S-i Reverse type	
X Keying	 (3P Planning)
Y Keying	Planning (3P Exist)

	J320S X Keying
	J320S Y Keying
 (8P Planning)	J320M X-X Keying
	J320M X-Y Keying
 (8P Planning)	J320M Y-Y Keying

JFA CONNECTOR/J300 SERIES

Model number identification

Receptacle contact

S F3 F - 41 GF - P 2.0

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ #24, 01...AWG #24 ~ #20
41...AWG #20 ~ #16, 71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated
GI...Nickel-undercoated, 0.76 μm selective gold-plated
T....Tin-plated (Reflow treatment)

Material: P...Copper alloy

Terminal size

Tab contact

S F3 M - 41 GF - M 2.0 N

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: M...Tab contact

Applicable wire: 01...AWG #24 ~ #20, 41...AWG #20 ~ #16
71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated
GI...Nickel-undercoated, 0.76 μm selective gold-plated
T....Tin-plated (Reflow treatment)

Material: M...Copper alloy

Terminal size

Sequential identification

Receptacle housing

F31 F S S - 03 V - K X

Series name

Type of connector: F...Receptacle housing

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Configuration: S...Side locking, C...Center locking

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-O

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying

YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Tab housing

F31 M S F - 03 V - K X

Series name

Kind of terminal: M...Tab housing

Rows: S... Single-row, D... Double-row with 5.08mm line pitch
M... Double-row with 7.62mm line pitch

Configuration: F...Free hanging, P...Panel mounting

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-O

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying

YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Header

B 05 B - F31 S K - GG X R

PC board mounting direction:
B...Top entry type
S...Side entry type
BC...Top & center locking
SC...Side & center locking

No. of circuits: 2 ~ 6, 8, 10, 12, 16, 20

Product name: Header

Series name

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
T...Triple-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Color indication: K...Black, S...White, E...Blue

Surface finish: GG...Nickel-undercoated, 0.38 μm selective gold-plated
GK...Nickel-undercoated, 0.76 μm selective gold-plated
T....Tin-plated (Reflow treatment)

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying, YY...YY-Keying,
XY...XY-Keying, XA...XXX-Keying, XB...XXY-Keying,
XC...XYX-Keying, XD...YYX-Keying, Blank...Without Keying No.

Packaging form: R...Tray, M...Magazine stick

Receptacle assembly

03 JFAT - SA Y GF - I

No. of circuits: 3 ~ 6

Series name

Mating type: SA...Normal type, SB...Reverse type

Keying: X...X-Keying, Y...Y-Keying

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Shape: I ... I type

Tab housing assembly

P 18B-F36T K - GF A R

PC board mounting direction: Panel mounting type

No. of circuits - Assembly: 9, 12, 18, 24

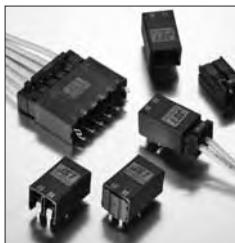
Series name: F36T...J360T, F35D...J350DC

Color indication: K...Black

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

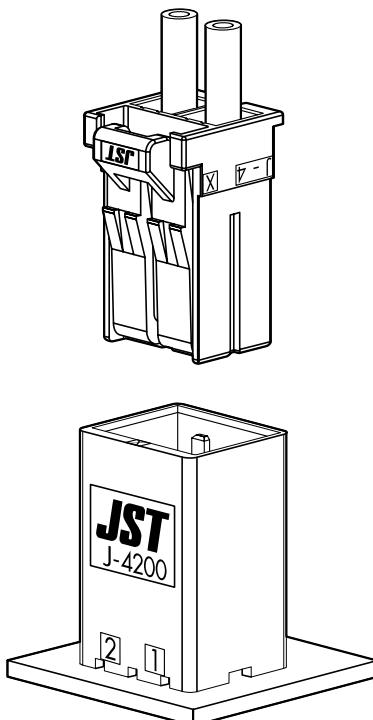
Configuration: A...Direct mounting type, AF...Direct mounting without housing cover type,
Blank...Panel mounting type

Packaging form: R...Tray



JFA CONNECTOR J4000 SERIES

6.0mm pitch/Disconnectable Crimp style connectors



Compact and high current capacity connector.

This connector realizes high-density mounting on PC board.

- **High current capacity**
- **Center locking**
- **Housing lance**
- **Countermeasure for insertion of foreign substances**

Specifications

- Current rating: 20A AC, DC (3 circuits/AWG #12)
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Applicable wire: AWG #16 to #12 (1.25 to 3.5mm²)

*Contact JST for details.

*RoHS compliant products are published.

Current rating

Unit: A

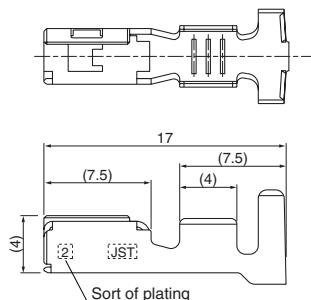
Circuits	Wire size (AWG)		
	#12	#14	#16
2	—	18.0	14.0
3	20.0	17.0	13.5
6	—	16.0	12.5

Standards

Recognized E60389

JFA CONNECTOR/J4000 SERIES

Receptacle contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ4F-71GF-M3.0	M	1.25 ~ 2.0	16 ~ 14	2.0 ~ 3.8	1,400
SJ4F-81GF-M3.0	L	2.0 ~ 3.5	14 ~ 12	2.9 ~ 4.2	—

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Note: Finish(GF): Nickel-undercoated, 0.38 µm selective gold-plated

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SJ4F-71GF-M3.0	AP-K2N	MKS-L-SIN3	MK/SJ4F71-30	APLMK SJ4F71-30
SJ4F-81GF-M3.0			MK/SJ4F81-30	APLMK SJ4F81-30

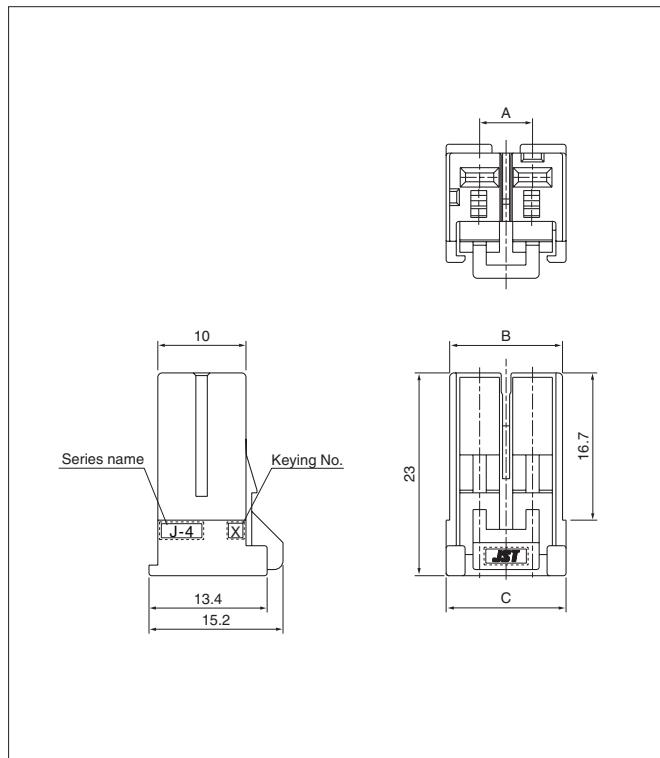
Loose piece	Hand crimp tools
BJ4F-71GF-M3.0	YRF1130
BJ4F-81GF-M3.0	YRF1370

Extraction tool for J4000 series : EJ-JFAJ4

Note: Contact JST for fully automatic crimping applicator.

J4000 SERIES/J4200S

Receptacle housing



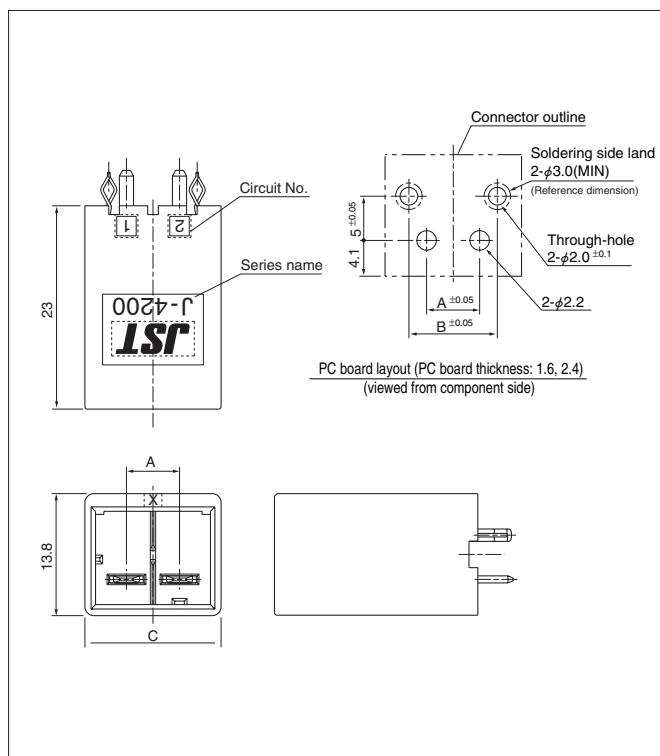
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
2	X	J42FSC-02V-KX	6.0	12.8	13.6	200
	Y	J42FSC-02V-KY	6.0	12.8	13.6	200
3	X	J42FSC-03V-KX	12.0	18.8	19.6	—
	Y	J42FSC-03V-KY	12.0	18.8	19.6	—
6	X	J42FSC-06V-KX	30.0	36.8	37.6	—
	Y	J42FSC-06V-KY	30.0	36.8	37.6	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	BC02B-J42SK-GHXR	6.0	10.0	15.4	168
	Y	BC02B-J42SK-GHYR	6.0	10.0	15.4	168
3	X	BC03B-J42SK-GHXR	12.0	16.0	21.4	—
	Y	BC03B-J42SK-GHYR	12.0	16.0	21.4	—
6	X	BC06B-J42SK-GHXR	30.0	34.0	39.4	—
	Y	BC06B-J42SK-GHYR	30.0	34.0	39.4	—

Material and Finish

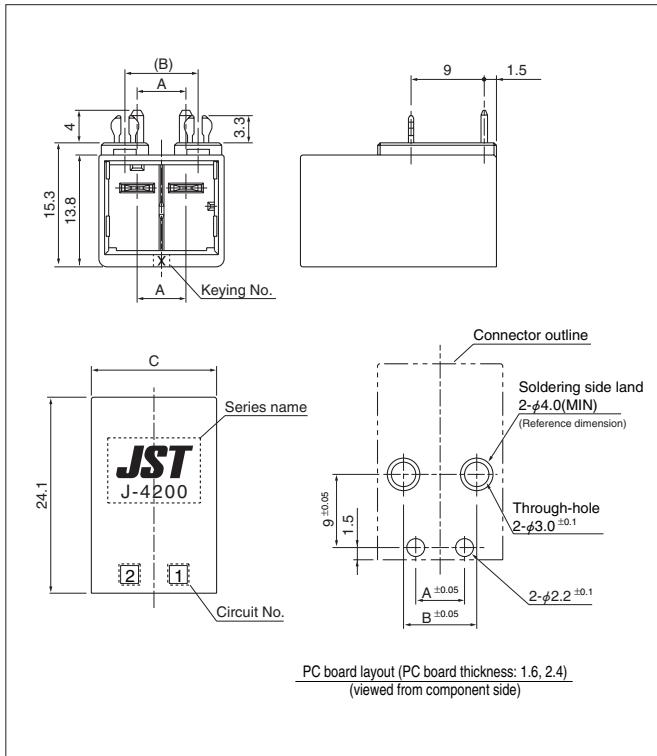
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

Header (Side entry type)



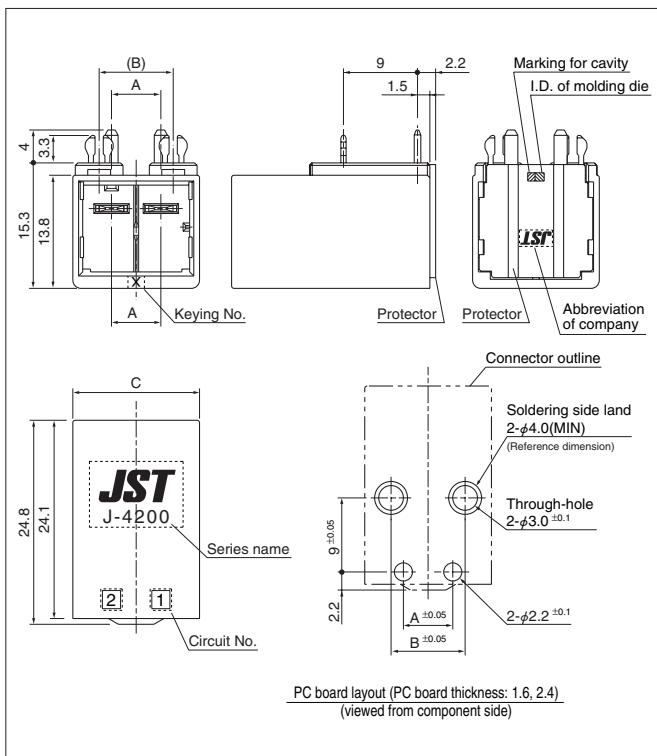
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	SC02B-J42SK-GHXR	6.0	9.0	15.4	—
	Y	SC02B-J42SK-GHYR	6.0	9.0	15.4	—

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Header (Side entry type with protector)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	SC02B-J42SK-GHXPR	6.0	9.0	15.4	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, gold-plated
Protector: Glass-filled PBT, UL94V-0, black

RoHS compliance (Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the back of the connector.

JFA CONNECTOR/J4000 SERIES

Model number identification

Receptacle contact

S J4 F - 71 GF - M 3.0 B

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 71...AWG #16 ~ #14
81...AWG #14 ~ #12

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated

Material: M...Copper alloy

Terminal size

Plating type: B...Selective spot gold-plated, Blank...Selective stripe gold-plated

Receptacle housing

J42 F S C - 02 V - K X

Series name

Type of connector: F...Receptacle housing

Rows: S...Single-row

Configuration: C...Center locking

No. of circuits: 2, 3, 6

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Header

SC 02 B -J42 S K - GH X P R

Form: BC...Top & center locking
SC...Side & center locking

No. of circuits: 2, 3, 6

Product name: Header

Series name

Rows: S...Single-row

Color indication: K...Black

Surface finish: GH...Nickel-undercoated, selective gold-plated

Keying: X...X-Keying, Y...Y-Keying

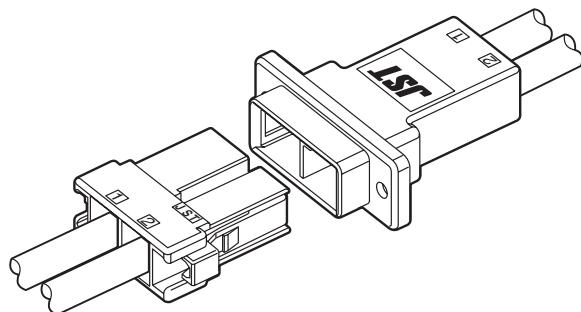
Special product: P...With protector, Blank...Standard product

Packaging form: R...Tray, M...Magazine stick



JFA CONNECTOR J5000 SERIES

11.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



One touch mating and unmating connector corresponding to high current. Modular type is also available.

- **High current capacity**
- **Easy mating connector**

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 3.0kV AC/minute
- Applicable wire: AWG #16 to #8 (1.25 to 8.0mm²)

*Contact JST for details.

*RoHS compliant products are published.

Current rating

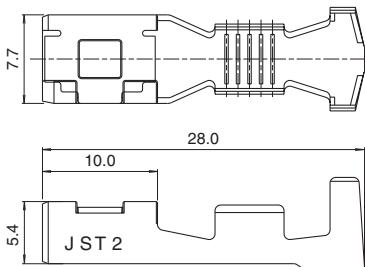
Circuits	Wire size (AWG)					Unit: A
	#8	#10	#12	#14	#16	
1	50	37	30	24	20	
2	45	34	28	22	18	
3	43	34	27	21	17	
4	42	32	26	20	16	
6	40	32	26	20	16	

Standards

 Recognized E60389

JFA CONNECTOR/J5000 SERIES

Receptacle contact



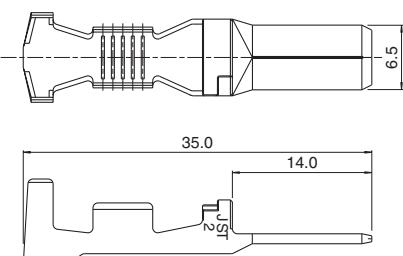
Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SJ5F-71GF-M6.5	BJ5F-71GF-M6.5	S	1.25 ~ 2.0	16 ~ 14	3.1 ~ 4.0	800	200
SJ5F-81GF-M6.5	LJ5F-81GF-M6.5	M	3.5 ~ 5.5	12 ~ 10	4.0 ~ 5.3	600	150
SJ5F-91GF-M6.5	LJ5F-91GF-M6.5	L	8.0	8	7.2 ~ 8.2	450	100

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SJ5M-71GF-M6.5	BJ5M-71GF-M6.5	S	1.25 ~ 2.0	16 ~ 14	3.1 ~ 4.0	800	200
SJ5M-81GF-M6.5	LJ5M-81GF-M6.5	M	3.5 ~ 5.5	12 ~ 10	4.0 ~ 5.3	600	150
SJ5M-91GF-M6.5	LJ5M-91GF-M6.5	L	8.0	8	7.2 ~ 8.2	450	100

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SJ5F-71GF-M6.5				
SJ5M-71GF-M6.5	AP-K2N	MKS-L-J5	MK/SJ5F/M-71-65	APLMK SJ5F/M71-65
SJ5F-81GF-M6.5				
SJ5M-81GF-M6.5			MK/SJ5F/M-81-65	APLMK SJ5F/M81-65
SJ5F-91GF-M6.5	*	*	*	*
SJ5M-91GF-M6.5	*	*	*	*

Loose piece	Hand crimp tools
BJ5F-71GF-M6.5	YRF-888
BJ5M-71GF-M6.5	
LJ5F-81GF-M6.5	YRF-889
LJ5M-81GF-M6.5	
LJ5F-91GF-M6.5	Battery operated type
LJ5M-91GF-M6.5	* BCT-860JFA

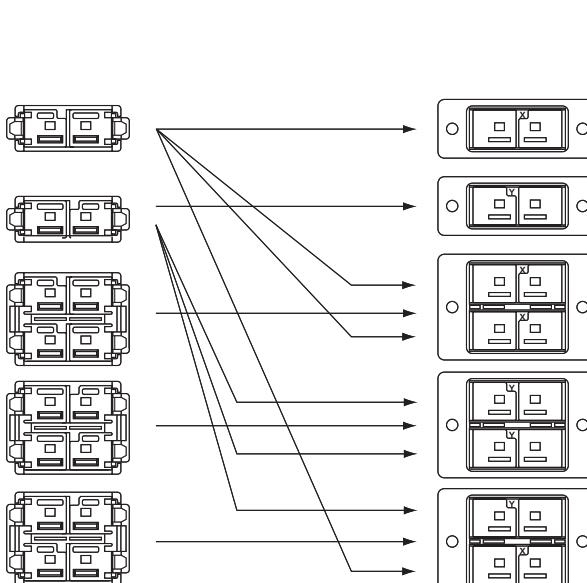
• Extraction tool for J5000 series: EJ-JFAJ5

*Contact JST for details.

List of combinations

The combination of the J5200 series.

Receptacle housing	
Single-row 2, 3 circuits (J5200S)	X type J5FS-■■■V-KX
	Y type J5FS-■■■V-KY
Double-row 4, 6 circuits (J5200M)	XX type J5FM-■■■V-KXX
	YY type J5FM-■■■V-KYY
	XY type J5FM-■■■V-KXY

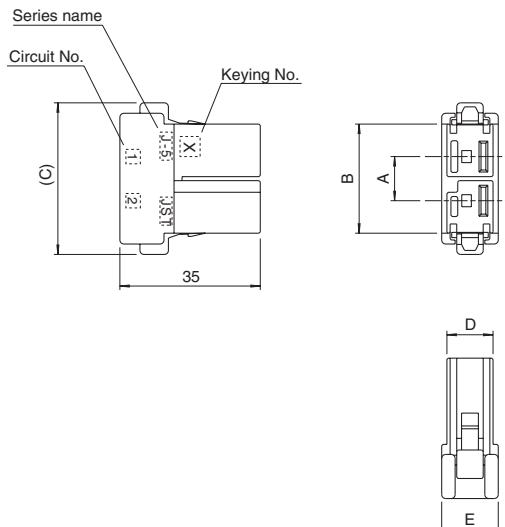


Note: Number of circuits is indicated in ■■■.

Tab housing	
Single-row 2, 3 circuits (J5200S)	X type J5MSP-■■■V-KX
	Y type J5MSP-■■■V-KY
Panel mounting type	
Double-row 4, 6 circuits (J5200M)	XX type J5MMP-■■■V-KXX
	YY type J5MMP-■■■V-KYY
Panel mounting type	XY type J5MMP-■■■V-KXY

J5000 SERIES/J5200

Receptacle housing



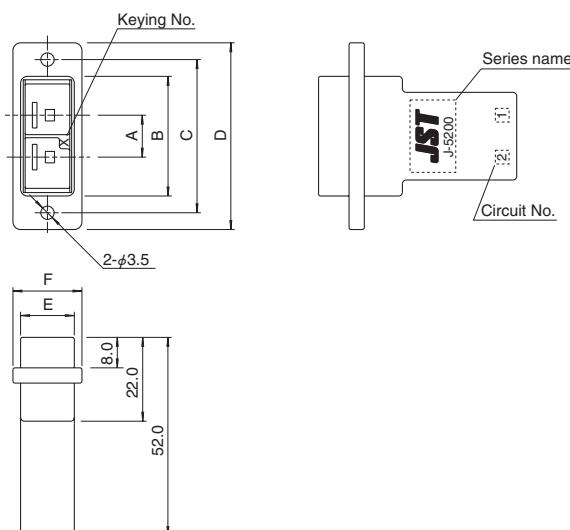
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
2	X	J5FS-02V-KX	11.0	27.2	37.8	11.5	14.1	50(bag)
	Y	J5FS-02V-KY	11.0	27.2	37.8	11.5	14.1	50(bag)
3	X	J5FS-03V-KX	22.0	38.2	48.8	11.5	14.1	50(bag)
	Y	J5FS-03V-KY	22.0	38.2	48.8	11.5	14.1	50(bag)
4	XX	J5FM-04V-KXX	11.0	27.2	37.8	26.0	28.6	180
	YY	J5FM-04V-KYY	11.0	27.2	37.8	26.0	28.6	180
	XY	J5FM-04V-KXY	11.0	27.2	37.8	26.0	28.6	180
6	XX	J5FM-06V-KXX	22.0	38.2	48.8	26.0	28.6	126
	YY	J5FM-06V-KYY	22.0	38.2	48.8	26.0	28.6	126
	XY	J5FM-06V-KXY	22.0	38.2	48.8	26.0	28.6	126
10	XX	J5FM-10V-KXX	44.0	60.2	70.8	26.0	28.6	—
	YY	J5FM-10V-KYY	44.0	60.2	70.8	26.0	28.6	—
	XY	J5FM-10V-KXY	44.0	60.2	70.8	26.0	28.6	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
2	X	J5MSP-02V-KX	11.0	31.4	40.2	49.0	14.1	18.1
	Y	J5MSP-02V-KY	11.0	31.4	40.2	49.0	14.1	18.1
3	X	J5MSP-03V-KX	22.0	42.4	51.2	60.0	14.1	18.1
	Y	J5MSP-03V-KY	22.0	42.4	51.2	60.0	14.1	18.1
4	XX	J5MMP-04V-KXX	11.0	31.4	40.2	49.0	28.6	32.6
	YY	J5MMP-04V-KYY	11.0	31.4	40.2	49.0	28.6	32.6
	XY	J5MMP-04V-KXY	11.0	31.4	40.2	49.0	28.6	32.6
6	XX	J5MMP-06V-KXX	22.0	42.4	51.2	60.0	28.6	32.6
	YY	J5MMP-06V-KYY	22.0	42.4	51.2	60.0	28.6	32.6
	XY	J5MMP-06V-KXY	22.0	42.4	51.2	60.0	28.6	32.6
10	XX	J5MMP-10V-KXX	44.0	64.4	73.2	82.0	28.6	32.6
	YY	J5MMP-10V-KYY	44.0	64.4	73.2	82.0	28.6	32.6
	XY	J5MMP-10V-KXY	44.0	64.4	73.2	82.0	28.6	32.6

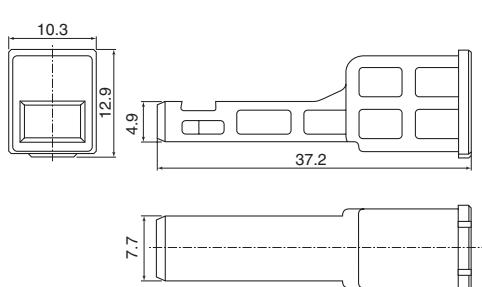
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Keying plug

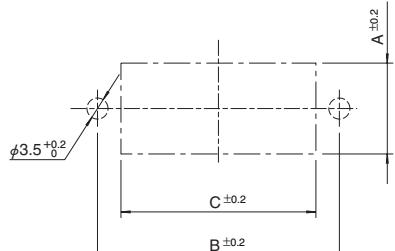
Model No.: J5KP-VY



RoHS compliance

JFA CONNECTOR/J5000 SERIES

Panel layout



Circuits	Dimensions (mm)		
	A	B	C
2	15.1	40.2	32.4
3	15.1	51.2	43.4
4	29.6	40.2	32.4
6	29.6	51.2	43.4
10	29.6	65.4	73.2

Model number identification

Receptacle contact

S J5 F - 71 GF - M 6.5

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 71...AWG #16 ~ #14, 81...AWG #12 ~ #10,
91...AWG #8

Surface finish: GF...Nickel-undercoated, selective gold-plated

Material: M...Copper alloy

Terminal size

Tab contact

S J5 M - 71 GF - M 6.5

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: M...Tab contact

Applicable wire: 71...AWG #16 ~ #14, 81...AWG #12 ~ #10,
91...AWG #8

Surface finish: GF...Nickel-undercoated, selective gold-plated

Material: M...Copper alloy

Terminal size

Receptacle housing

J5 F S - 02 V - K X

Series name

Type of connector: F...Receptacle housing

Rows: S...Single-row, M...Double-row modular type

No. of circuits: 2, 3, 4, 6

Flammability: UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying

Tab housing

J5 M S P - 02 V - K X

Series name

Kind of terminal: M...Tab housing

Rows: S...Single-row, M...Double-row modular type

Configuration: P...Panel type

No. of circuits: 2, 3, 4, 6

Flammability: UL94V-0

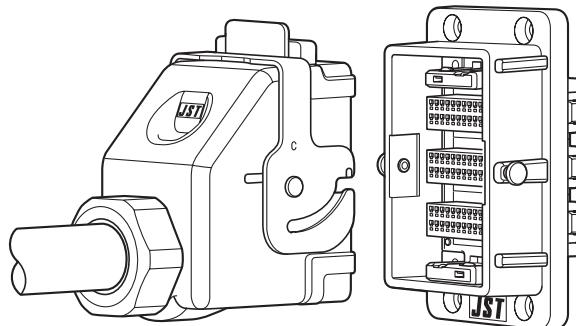
Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying



JFA CONNECTOR METAL SHELL SERIES

Disconnectable Crimp style (Wire-to-wire connectors)



Metal shell type I/O connector which contacts are used also with JFA connector J2000 series and J300 series.
2, 3 or 4 modules for contacts are available.

- Applicable contact and tooling can be unified
- Rigid metal shell
- Waterproof performance
- Misinsertion prevention
- Sequential circuit

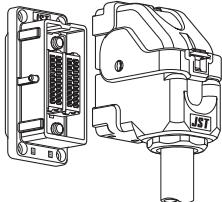
*Contact JST for details.

*RoHS compliant products are published.

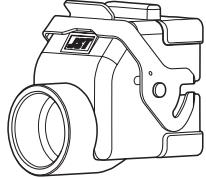
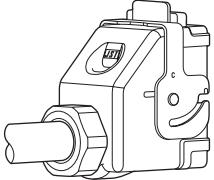
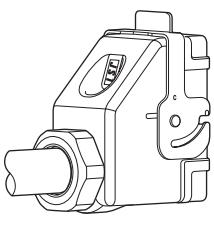
JFA CONNECTOR/METAL SHELL SERIES

List of metal shell

J2900

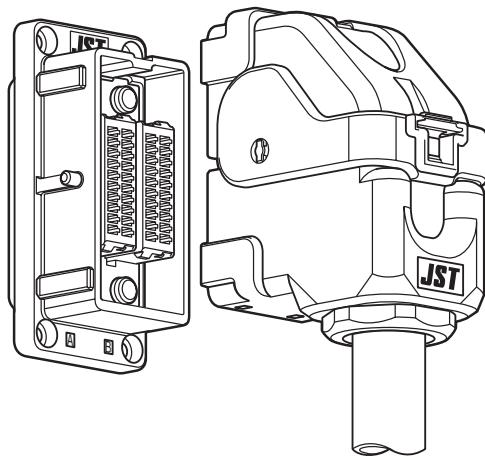
Connector series	J2000 series 40 circuits
J2900	
Circuits	20 × 2 pcs.

JFA-M

Type	Shell	Hybrid type			
2 Module		J2000(22P) × 2	J2000(22P) × 1 + J300(12P) × 1	J300(12P) × 2	
Circuits		44	34	24	
3 Module		J2000(22P) × 3	J2000(22P) × 2 + J300(12P) × 1	J2000(22P) × 1 + J300(12P) × 2	J300(12P) × 3
Circuits		66	56	46	36
4 Module		J2000(22P) × 4	J2000(22P) × 3 + J300(12P) × 1 J2000(22P) × 1 + J300(12P) × 1	J2000(22P) × 2 + J300(12P) × 2	J300(12P) × 4
Circuits		88	78, 58	68	48



JFA CONNECTOR J2900 SERIES



This connector is a metal shell type I/O connector and it's completely waterproof. Contacts are designed to be common use with JFA connector J2000 series. The long type tab contact realizes sequential circuit construction.

- **Rigid metal shell**
- **Easy mating operation**
- **Long type tab contact**

Specifications

- Current rating: 3A max. AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20 (0.08 to 0.75mm²)
- Cable O.D.: 11.1 to 13.5mm

*Contact JST for details.

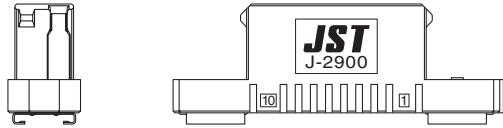
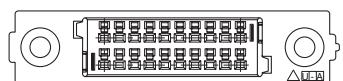
Standards

■ Recognized E60389

METAL SHELL SERIES/J2900

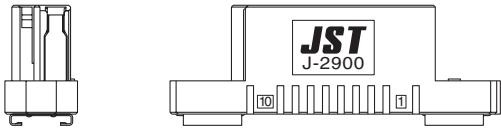
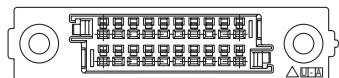
Receptacle housing assembly

• Normal type



Circuits	Model No.	Q'ty/bag
20	J29FA-20-K	70

• Anti-misinsertion type

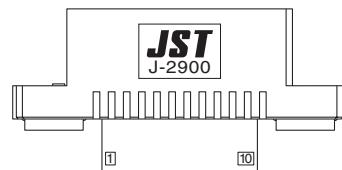


Circuits	Model No.	Q'ty/bag
20	J29FA-20-H-1	70

METAL SHELL SERIES/J2900

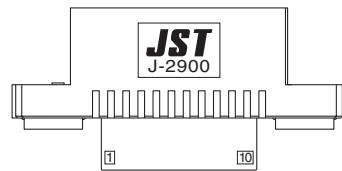
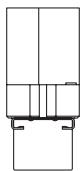
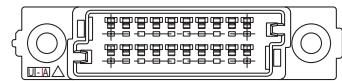
Tab housing assembly

• Normal type



Circuits	Model No.	Q'ty/bag
20	J29FA-20-K	70

• Anti-misinsertion type



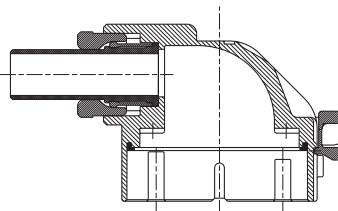
Circuits	Model No.	Q'ty/bag
20	J29MA-20-H-1	70

METAL SHELL SERIES/J2900

Wire side

Shell kit

• Normal type



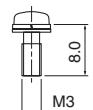
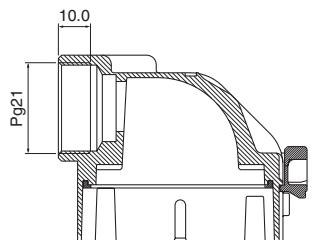
Model No.

Q'ty/bag

J29WK-K-1

30

• For Pg21



Pg21 screw mounting product (for flexible tubing, etc.)

Model No.

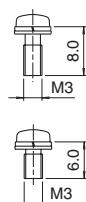
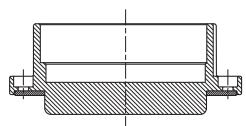
Q'ty/bag

J29WK-K-A

35

Panel side

Shell kit



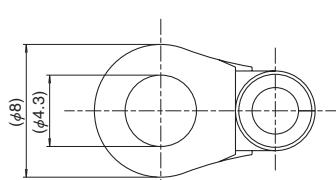
Model No.

Q'ty/bag

J29PK-K

35

Ground terminal



Model No.

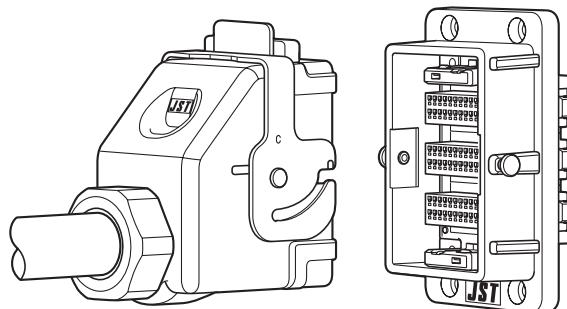
Q'ty/bag

L3.5-R4

1,000



JFA CONNECTOR JFA-M SERIES



Metal shell type I/O connector which contacts are designed to be common use with JFA connector J2000 series and J300 series.

- **Rigid metal shell**
- **Lever (3 and 4 module type) provides easy mating and unmating connector**
- **Combination of modular housing**

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 250V AC, DC (J2000 series)
600V AC, DC (J300 series)
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute (J2000 series)
2,200V AC/minute (J300 series)

*Contact JST for details.

Current rating

	Unit: A	
	J2000 Series	J300 Series
	Wire size	
	AWG#20	AWG#16
2 Module	3(44P)	5(24P)
3 Module	3(66P)	5(36P)
4 Module	2.5(88P)	5(48P)

Standards

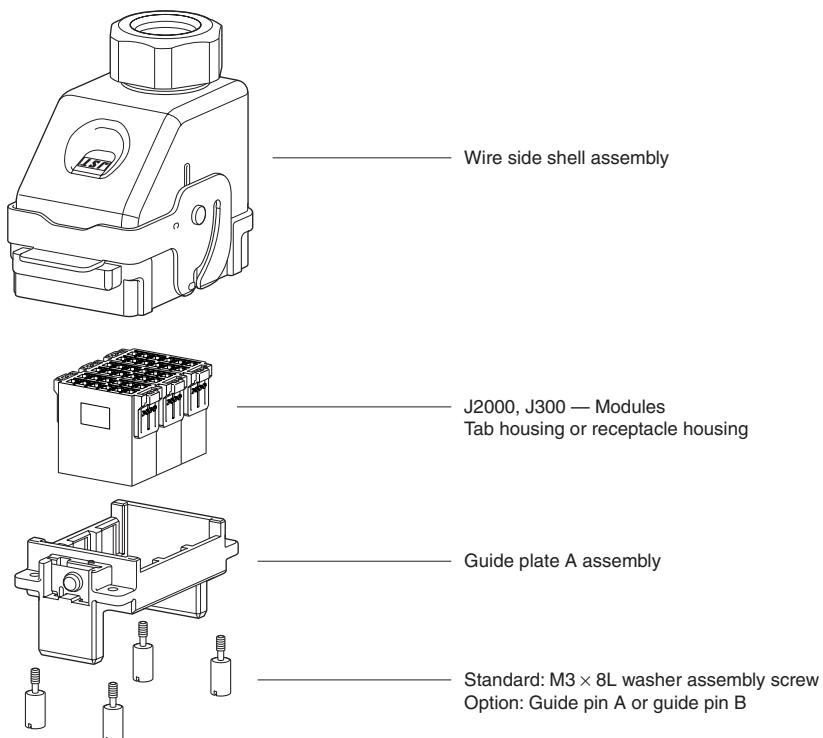
Recognized E60389

METAL SHELL SERIES/JFA-M

Components

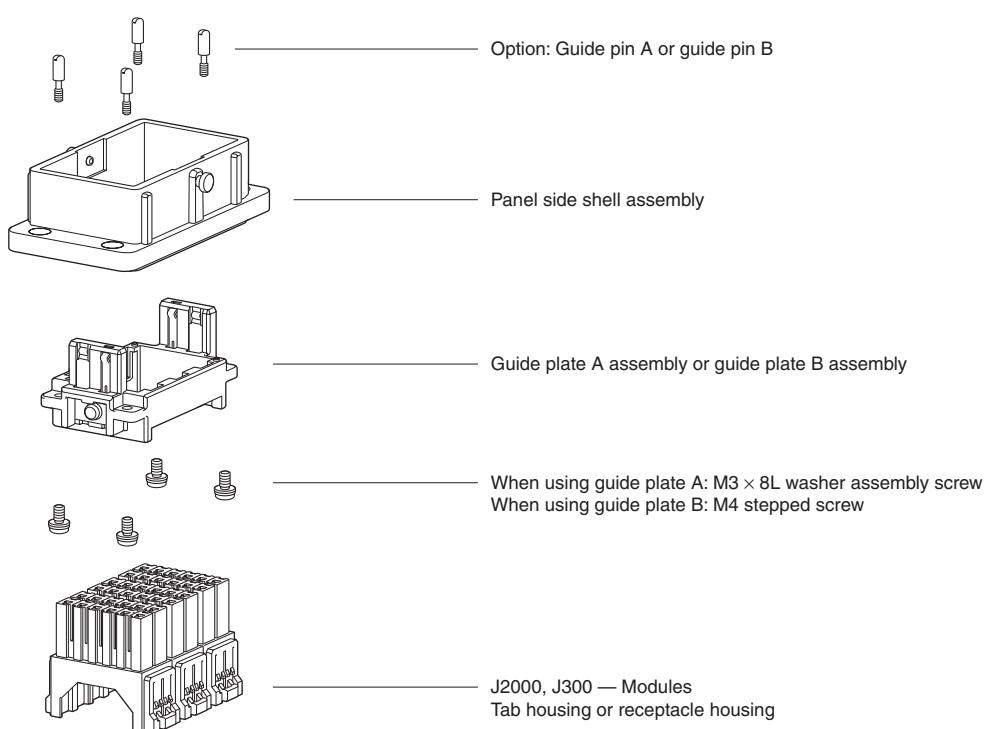
Wire side

Shell assembly



Panel side

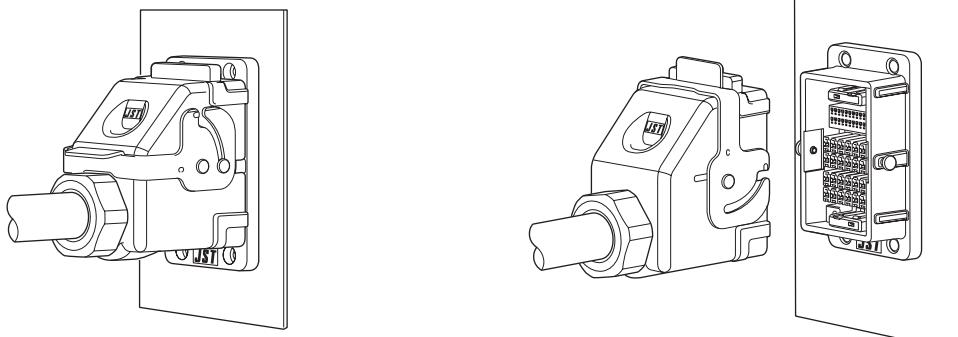
Shell assembly



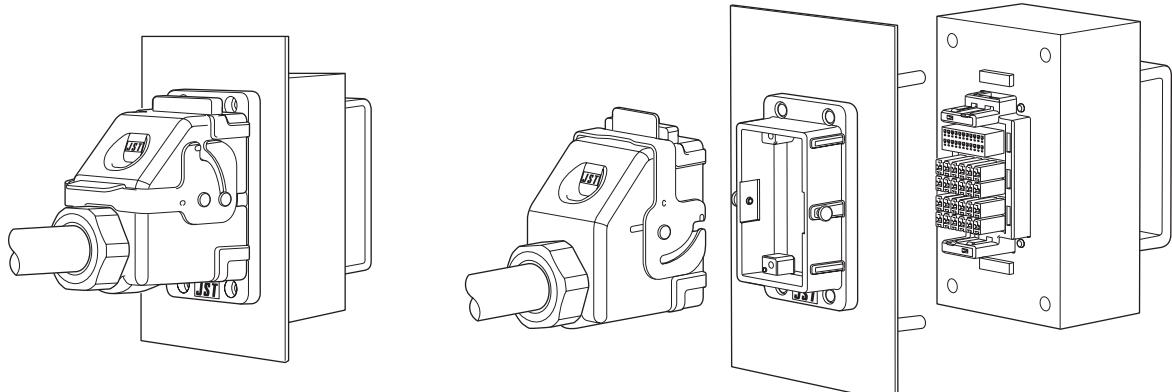
METAL SHELL SERIES/JFA-M

Examples of use

Waterproof I/O connector

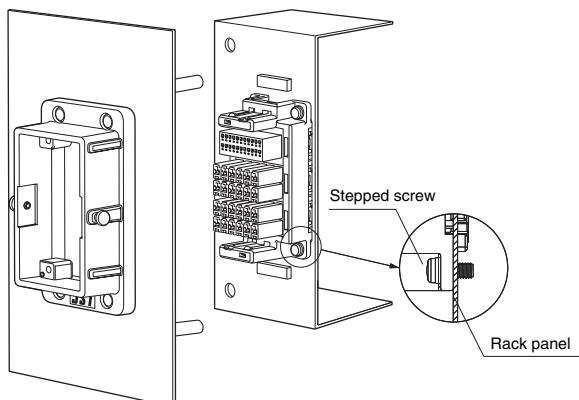


Drawer type

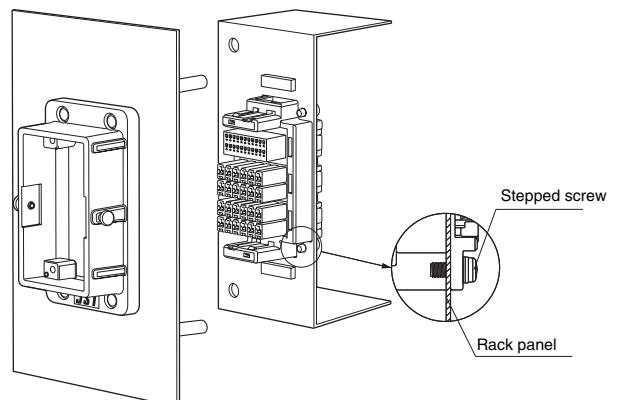


Drawer type (Rack mounting method)

Front mounting of rack panel



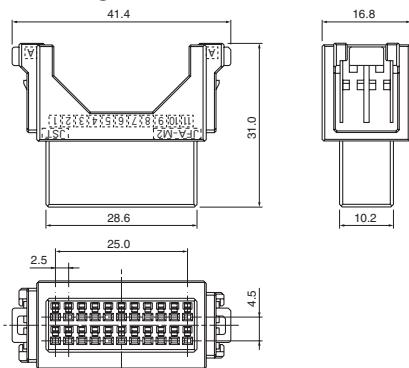
Rear mounting of rack panel



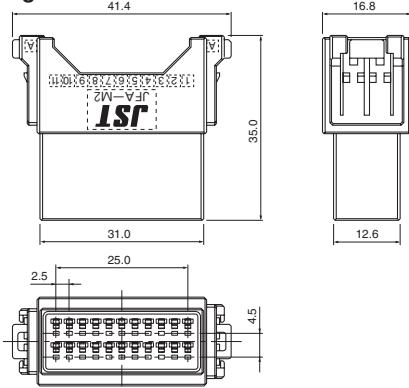
METAL SHELL SERIES/JFA-M

J2000 series housing (Used for both panel mounting and drawer type)

- Receptacle housing



- Tab housing



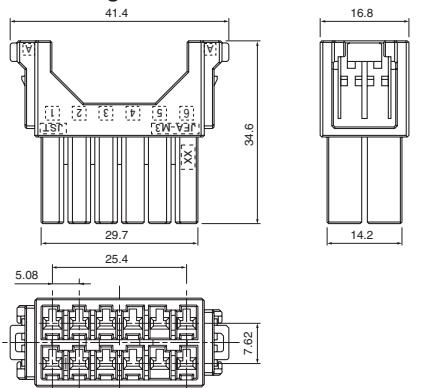
	Model No.	Q'ty/bag
Receptacle housing	JFM2FDN-22V-K	50
Tab housing	JFM2MDN-22V-K	50

RoHS compliance

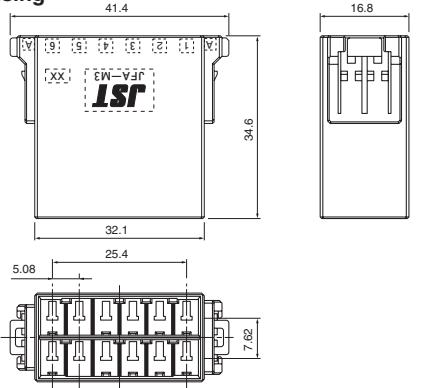
Note: Refer to page 438 about J2000 series contact.

J300 series housing (Used for both panel mounting and drawer type)

- Receptacle housing



- Tab housing



	Model No.	Q'ty/bag
Receptacle housing	JFM3FMN-12V-K	50
Tab housing	JFM3MMN-12V-K	50

RoHS compliance

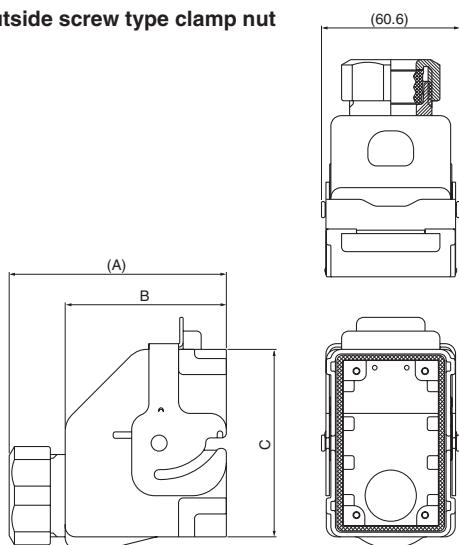
Note: Refer to page 453 about J300 series contact.

METAL SHELL SERIES/JFA-M

Wire side

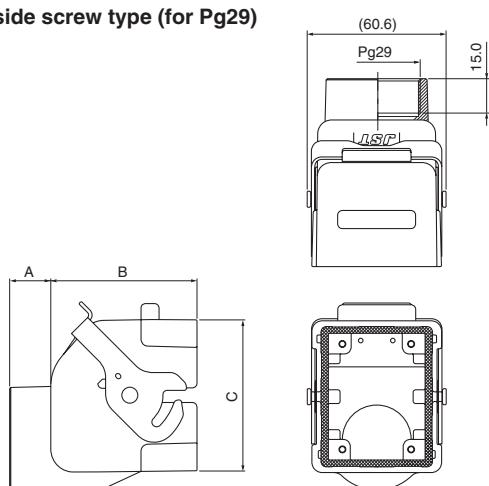
Shell assembly

- Outside screw type clamp nut



No. of combining housing	Model No.	Dimensions (mm)			Q'ty/bag
		A	B	C	
3 module	JFM-WSA-3-B	(95.0)	70.5	82.0	1
4 module	JFM-WSA-4-A	(103.5)	79.0	99.0	1

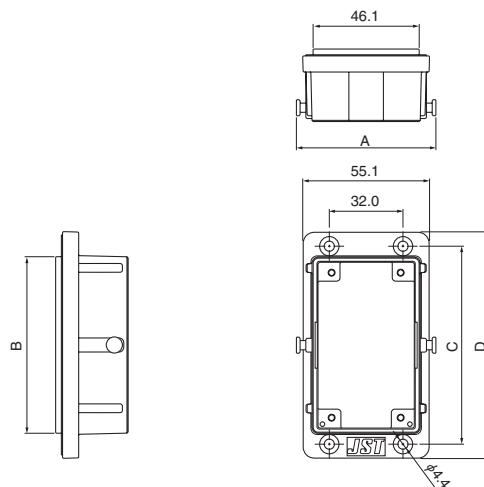
- Inside screw type (for Pg29)



No. of combining housing	Model No.	Dimensions (mm)			Q'ty/bag
		A	B	C	
2 module	JFM-WSA-2-1	18.0	64.0	66.2	1

Panel side

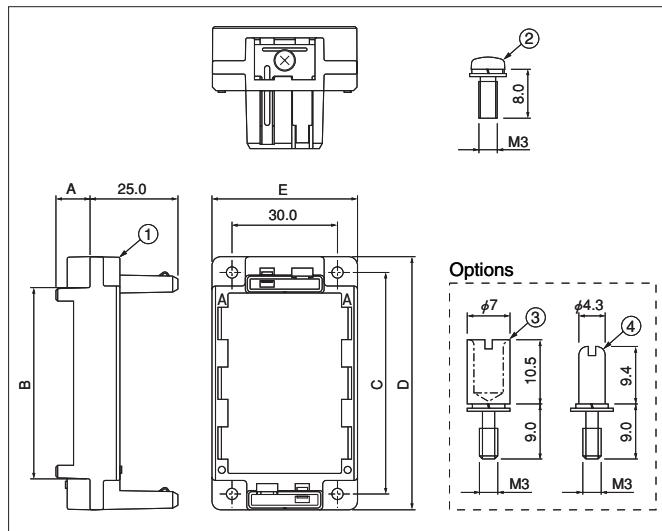
Shell assembly



No. of combining housing	Model No.	Dimensions (mm)				Q'ty
		A	B	C	D	
2 module	JFM-PSA-2	(60.5)	59.7	69.0	81.5	1 (bag)
3 module	JFM-PSA-3	(60.6)	76.7	86.0	98.5	12 (box)
4 module	JFM-PSA-4	(60.6)	93.7	103.0	115.5	10 (box)

METAL SHELL SERIES/JFA-M

Guide plate A (With the combination of wire side and panel side shell assembly)



No. of combining housing	Model No.	Dimensions (mm)					Q'ty
		A	B	C	D	E	
2 module	JFM-GPAK-2	9.6	37.4	46.0	54.8	41.9	1 (bag)
3 module	JFM-GPAK-3	9.7	54.4	63.0	72.0	41.4	24 (box)
4 module	JFM-GPAK-4	9.7	71.4	80.0	89.0	41.4	16 (box)

No.	Parts name	Model No.	Q'ty
①	Guide plate A	—	—
②	Washer assembly screw	—	—
③	Guide pin A	JFM-PIA3-N	1,000 (bag)
④	Guide pin B	JFM-PIB3-N	1,000 (bag)

Note: Guide pin A and guide pin B are option.

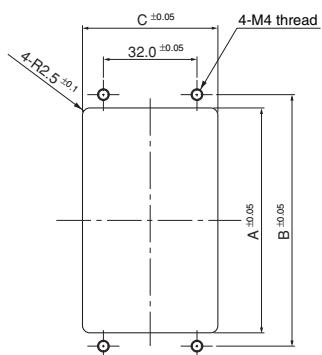
List of combinations of guide pin A and guide pin B (Shell mounting pattern at panel side)

No. of guide pin	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6
Guide pin A : 0 Guide pin B : 4	●					
Guide pin A : 1 Guide pin B : 3	●	●	●	●		
Guide pin A : 2 Guide pin B : 2	●	●	●	●	●	●
Guide pin A : 3 Guide pin B : 1	●	●	●	●		
Guide pin A : 4 Guide pin B : 0	●					

Note: Shell mounting pattern at wire side becomes opposite to the above pattern.

Panel cut dimension

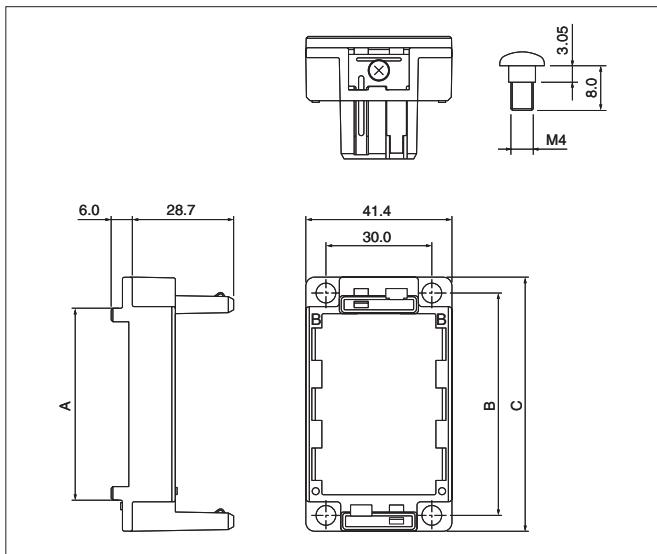
• Panel side shell mounting



Note: When thread and prepared hole penetrate, use sealing material on the back side of panel.

No. of combining housing	Dimensions (mm)		
	A	B	C
2 module	60.0	69.0	46.4
3 module	76.9	86.0	46.3
4 module	93.9	103.0	46.3

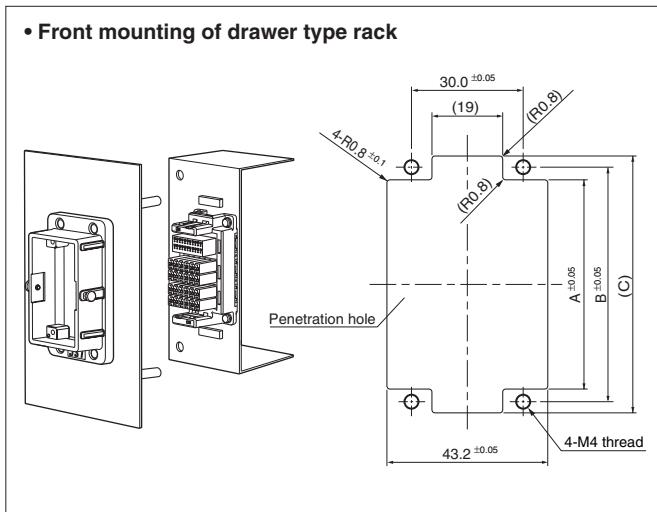
Guide plate B



No. of combining housing	Model No.	Dimensions (mm)			Q'ty/bag
		A	B	C	
3 module	JFM-GPBK-3	54.4	63.0	72.0	24
4 module	JFM-GPBK-4	71.4	80.0	89.0	16

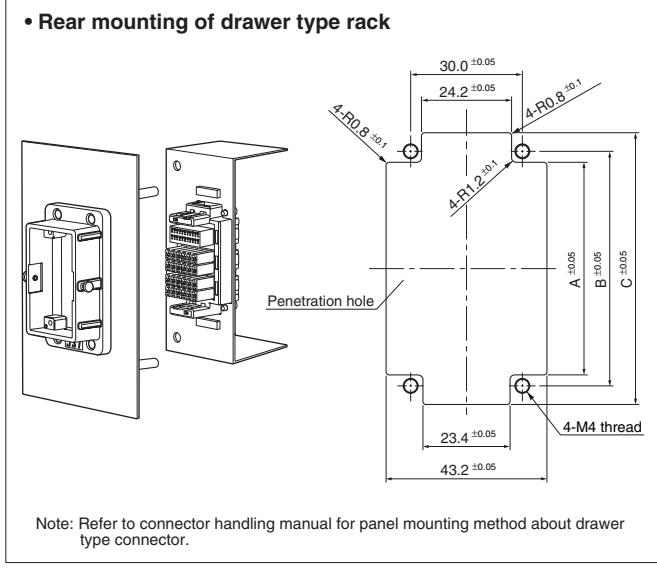
Panel cut dimension

• Front mounting of drawer type rack



No. of combining housing	Dimensions (mm)		
	A	B	C
3 module	56.2	63.0	69.0
4 module	73.2	80.0	86.0

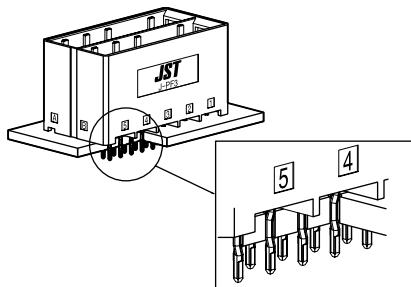
• Rear mounting of drawer type rack



No. of combining housing	Dimensions (mm)		
	A	B	C
3 module	57.1	63.0	73.0
4 module	74.1	80.0	90.0

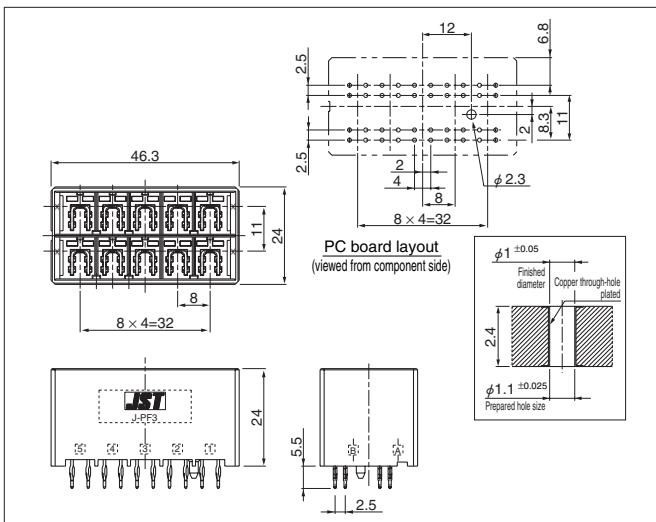
Note: Refer to connector handling manual for panel mounting method about drawer type connector.

J300 SERIES/J-PF3 PRESS FIT TYPE



- Press fit contact is adopted.
- Easy PC board layout
- Use the receptacle contact of J300 series

Header Top entry type (Press fit type)



Circuits	Keying	Model No.	Q'ty / box
10	XX	B10B-JPF3MK-GKXXR	96
	YY	B10B-JPF3MK-GKYR	96
	XY	B10B-JPF3MK-GKXYR	96
	YX	B10B-JPF3MK-GKYXR	96

Material and Finish

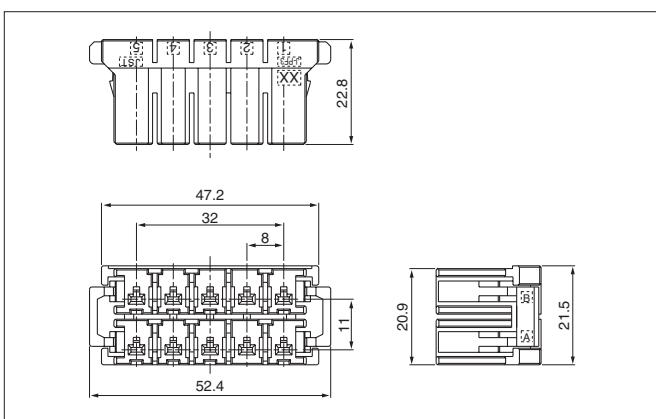
Post: Copper alloy, gold-plated

Housing: Thermoplastic resin

RoHS compliance

Note: 1. Contact JST for jig for press fit.
2. Not CSA/UL/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
10	XX	JPF3FMS-10V-KXX	400
	YY	JPF3FMS-10V-KYY	400
	XY	JPF3FMS-10V-KXY	400
	YX	JPF3FMS-10V-KYX	400

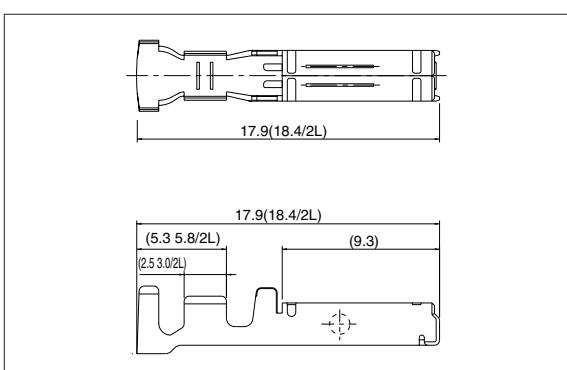
Material

Housing: Thermoplastic resin

RoHS compliance

Note: Not CSA/UL/TÜV approved.

Receptacle contact



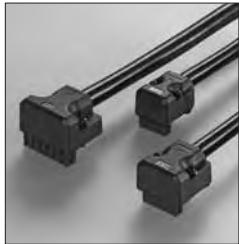
Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty
Strip contact	Loose piece	Nominal	mm ²	AWG#	reel Box(Loose piece)	
SF3F-002GF-P2.0	BF3F-002GF-P2.0	S	0.08 ~ 0.20	28 ~ 24	0.8 ~ 1.4	3,700 1,000
SF3F-01GF-P2.0	BF3F-01GF-P2.0	M	0.20 ~ 0.50	24 ~ 20	1.2 ~ 2.6	3,700 1,000
SF3F-41GF-P2.0	LF3F-41GF-P2.0	L	0.50 ~ 1.25	20 ~ 16	1.8 ~ 2.8	3,200 1,000
*SF3F-71GF-P2.0	*BF3F-71GF-P2.0	2L	1.25 ~ 2.0	16 ~ 14	2.4 ~ 3.4	3,200 1,000

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated tin-plated (reflow treatment)

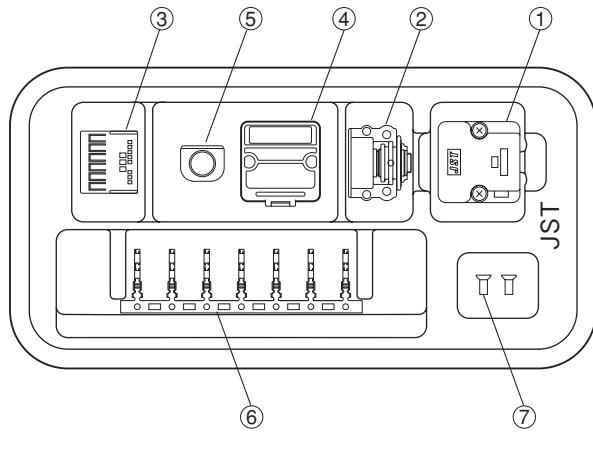
RoHS compliance

Note: *Marked products are not CSA/TÜV approved.



JFA CONNECTOR J1700/2700/3700 SERIES

Connector kits for motor



- 6 circuits connector for power supply of servomotor

Specifications

- Current rating: 5.0A AC, DC [J1700 series 2.0mm pitch]
7.0A AC, DC [J2700 series 2.5mm pitch]
10.0A AC, DC [J3700 series 3.8mm pitch]
- Voltage rating: 250V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Waterproof grade: Grade 5 ingress protection of JIS C 0920
(IEC 60529 IPX5)

*Contact JST for details.

Kit components

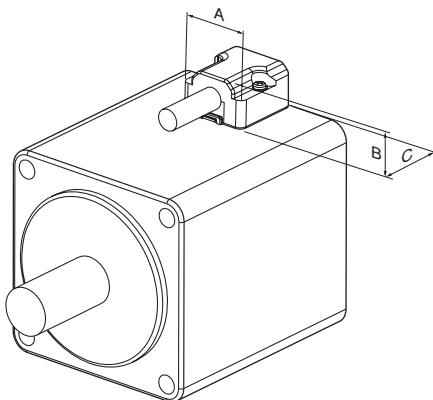
No.	Components	Q'ty
①	Top cover assembly	1
②	Bottom cover assembly	1
③	Receptacle housing	1
④	Rubber plate seal	1
⑤	Seal ring	1
⑥	Receptacle contact	7
⑦	Flat countersunk head screw	2

Standards

■ Recognized E60389

JFA CONNECTOR/J1700/2700/3700 SERIES

Connector kit outer dimension



Series	Dimensions (mm)		
	A	B	C
J1700	16.4	12.0	20.2
J2700	21.0	13.0	21.2
J3700	27.0	15.0	21.2

Connector kit model No.

Series	Pitch (mm)	Model No.	Cable finished diameter (mm)	Nominal
J1700	2.0	J17-06FMH-6KL-1S-CF	6.0	S
		J17-06FMH-6KL-1M-CF	6.0	M
		J17-06FMH-7KL-1S-CF	7.0	S
		J17-06FMH-7KL-1M-CF	7.0	M
J2700	2.5	J27-06FMH-6KL-1S-CF	6.0	S
		J27-06FMH-6KL-1M-CF	6.0	M
		J27-06FMH-7KL-1S-CF	7.0	S
		J27-06FMH-7KL-1M-CF	7.0	M
J3700	3.8	J37-06FMH-8KL-1S-CF	8.0	S
		J37-06FMH-8KL-1M-CF	8.0	M
		J37-06FMH-8KL-1L-CF	8.0	L
		J37-06FMH-9KL-1S-CF	9.0	S
		J37-06FMH-9KL-1M-CF	9.0	M
		J37-06FMH-9KL-1L-CF	9.0	L

RoHS compliance

Model number identification

J17 - 06 FMH - 6 K L - 1S - CF
Series name: J17...J1700 Series J27...J2700 Series J37...J3700 Series
No. of circuits: 6
Type of connector: Receptacle housing
Cable insulation O.D.: J1700 Series...6.0, 7.0 J2700 Series...6.0, 7.0 J3700 Series...8.0, 9.0
Color indication: K...Black
Packaging form: Tray for kit
Receptacle contact size : S , M , L
Hexavalent chromium free

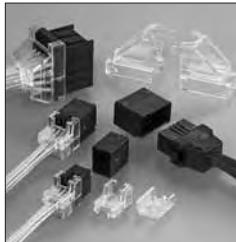
Receptacle contact

Applicable wire			Wire insulation O.D. (mm)	J1700 Series	J2700 Series	J3700 Series
Nominal	mm ²	AWG #		SJ1F-002GF-P0.8	SJ2F-002GF-P1.0	SJ3F-002GF-P1.8
S	0.08 ~ 0.20	28 ~ 24	0.88 ~ 1.43	SJ1F-002GF-P0.8	SJ2F-002GF-P1.0	SJ3F-002GF-P1.8
	0.20 ~ 0.50	24 ~ 20	1.11 ~ 1.53	SJ1F-01GF-P0.8	SJ2F-01GF-P1.0	—
L	0.50 ~ 1.25	20 ~ 16	1.11 ~ 1.86	—	—	SJ3F-01GF-P1.8

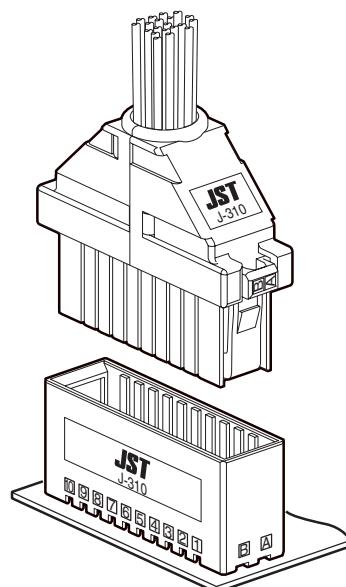
RoHS compliance

Hand crimping tool

Series	Nominal	Receptacle contact	Hand crimp tool
J1700	S	SJ1F-002GF-P0.8	YRS-8831
	M	SJ1F-01GF-P0.8	YRS-8841
J2700	S	SJ2F-002GF-P1.0	YRS-8851
	M	SJ2F-01GF-P1.0	YRS-8861
J3700	S	SJ3F-002GF-P1.8	YRF-882
	M	SJ3F-01GF-P1.8	YRF-881
	L	SJ3F-41GF-P1.8	YRF-880



JFA CONNECTOR/PROTECTOR

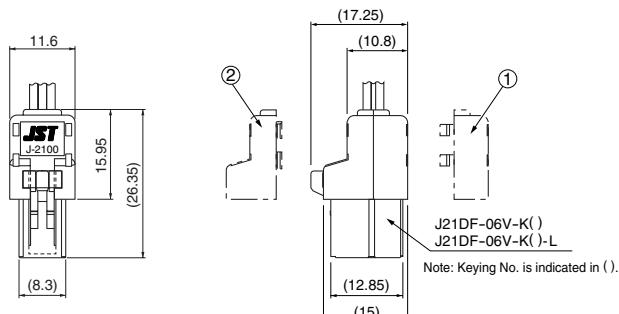


Note: Protector is not UL/CSA/TÜV approved

**When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side.
However it has no function of holding the wire securely.**

J2000 Series

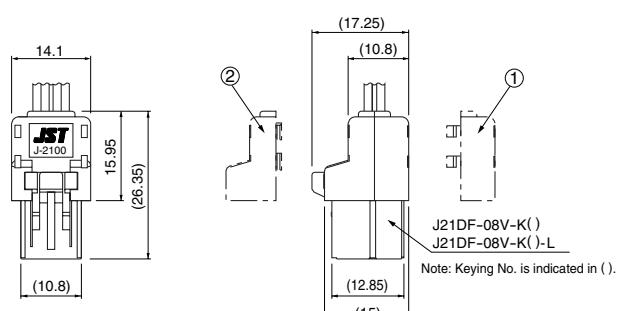
•J2100 series for 6 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 8 circuits



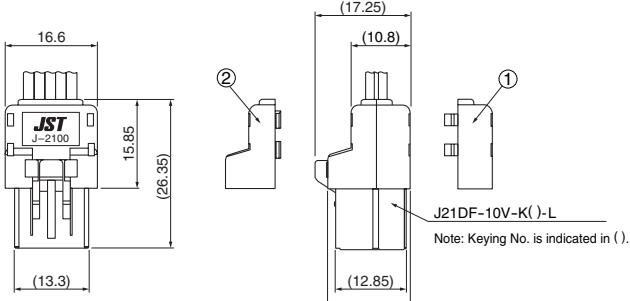
No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

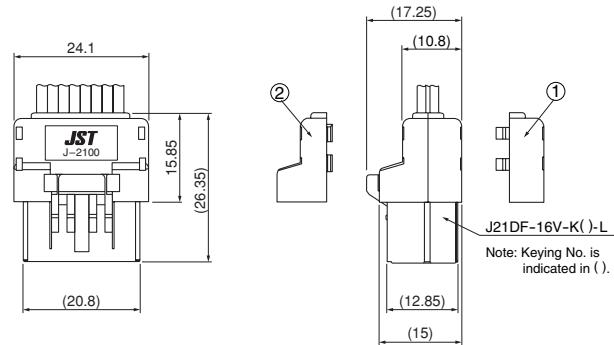
JFA CONNECTOR/PROTECTOR

J2000 Series

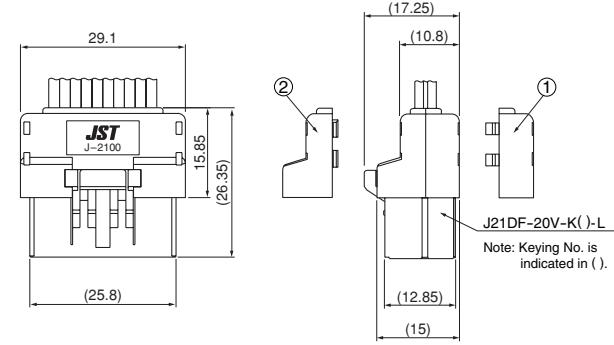
•J2100 series for 10 circuits



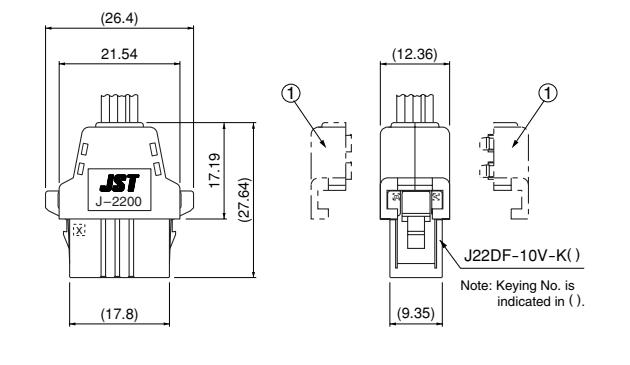
•J2100 series for 16 circuits



•J2100 series for 20 circuits



•J2200 series for 10 circuits



No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent

Material
Polycarbonate

RoHS compliance

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent

Material
Polycarbonate

RoHS compliance

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent

Material
Polycarbonate

RoHS compliance

No.	Model No.	Color
①	J22PF-10VK	Black

Material
Glass-filled PBT

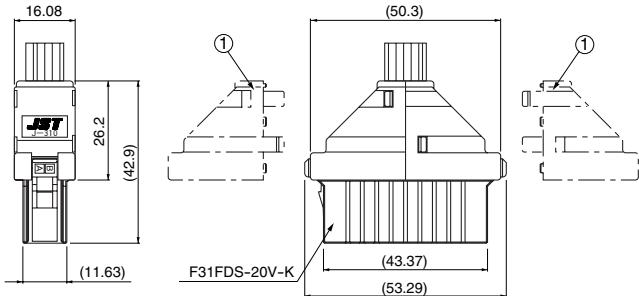
RoHS compliance

Note: Two protectors are used.

JFA CONNECTOR/PROTECTOR

J300 Series

•J310D series for 20 circuits

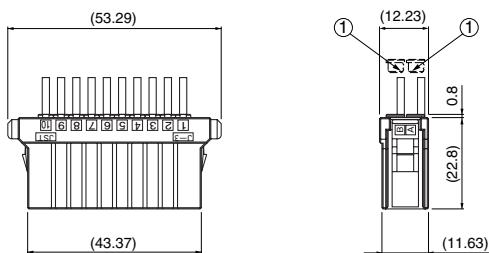


No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent
Material		
Black: Glass-filled PBT		
Transparent: Polycarbonate		

RoHS compliance

Note: Two protectors of the same color are used.

•J310D series / Embedding-type protector for 8, 10 circuits

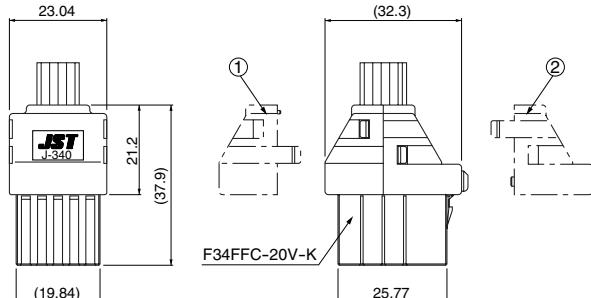


No.	Model No.	Color
①	F31PFS-10KU	Black
Material		
Glass-filled PBT		

RoHS compliance

Note: This protector is cut and used for each number of circuits.

•J340F series for 20 circuits



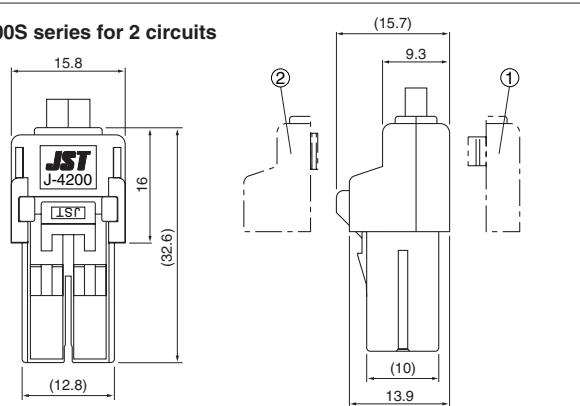
No.	Model No.	Color
①	F34PFF-20VKA	Black
①	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
②	F34PFF-20SCB	Transparent
Material		
Black: Glass-filled PBT		
Transparent: Polycarbonate		

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

5

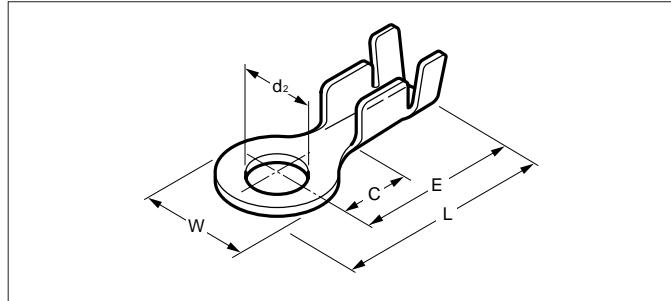
Chain Terminals and Splices

TABLE OF CONTENTS

RING TONGUE TERMINAL	508
FORK TONGUE TERMINAL	511
TAB-ON TERMINAL	513
TAB-ON-TAB TERMINAL	517
TAB-IN/TAB-IN-TAB TERMINAL	518
BULLET TERMINAL	520
CLUSTER SOCKET	522
SPC SPLICE	524
PIERCING SPLICE	524
SPLICE FOR HEATER WIRES	525
PS CONNECTOR	526
IG CONNECTOR	532
MG CONNECTOR	533
LCD BACK-LIGHT TERMINAL	535
CHAIN TERMINAL(Made in Belgium)	536

RING TONGUE TERMINAL

With insulation grip



Listed E42024

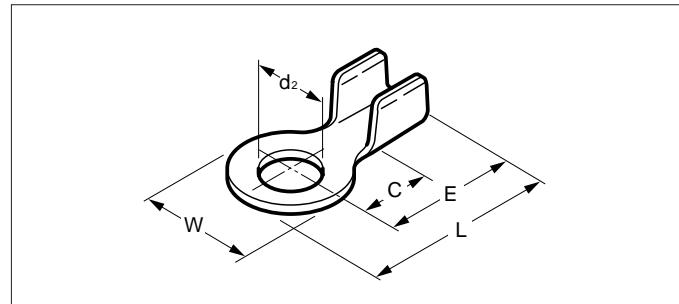
Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q'ty / reel						
		mm ²	AWG #	Insulation O.D. (mm)			d_2 (dia.)	E	L	C	W	Material thickness							
SRA-01T-3.2		0.2 to 0.5	24 to 20	1.5 to 2.7	Brass	Tin-plated	3.2	13.4	16.9	7.2	7.0	0.32	10,000						
SRA-21-3		0.3 to 0.75	22 to 18	1.5 to 2.8	Brass	—		13.0	16.8	5.8	7.5	0.5	7,500						
SRA-21T-3						Tin-plated													
SRA-21-3.7						—													
SRA-21T-3.7						Tin-plated													
SRA-21-4						—		4.3											
SRA-21T-4						Tin-plated													
SRA-21-H5						—													
SRA-21T-H5						Tin-plated													
SRA-51-3		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	13.0	16.8	5.8	7.5	0.5	7,500						
SRA-51T-3						Tin-plated													
SRA-51-3.7						—		3.7											
SRA-51T-3.7						Tin-plated													
SRA-51-4						—		4.3											
SRA-51T-4						Tin-plated													
SRA-51-H5						—													
SRA-51T-H5						Tin-plated													
SRB-51-3		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	15.0	19.3	7.8	8.5	0.5	5,000						
SRB-51T-3						Tin-plated													
SRB-51-3.7						—		3.7											
SRB-51T-3.7						Tin-plated													
SRB-51-4						—		4.3											
SRB-51T-4						Tin-plated													
SRB-51-H5						—													
SRB-51T-H5						Tin-plated													
SRB-51-5		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	5.1	15.0	19.3	7.8	8.5	0.5	5,000						
SRB-51T-5						Tin-plated													
SRC-01-2.5						—		5.3											
SRC-01T-2.5						Tin-plated													
SRC-51-M3						—													
SRC-51T-M3						Tin-plated													
SRC-51-M3.5						—													
SRC-51T-M3.5						Tin-plated													
SRC-51-M4						—													
SRC-51T-M4						Tin-plated													
SRF-51-3		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	11.5	15.3	4.8	7.5	0.5	7,500						
SRF-51T-3						Tin-plated													
SRF-51-3.7						—		3.7											
SRF-51T-3.7						Tin-plated													
SRF-51-4						—		4.3											
SRF-51T-4						Tin-plated													
SRF-51-H5						—													
SRF-51T-H5						Tin-plated													

RoHS compliance

RING TONGUE TERMINAL

Without insulation grip



Listed E42024

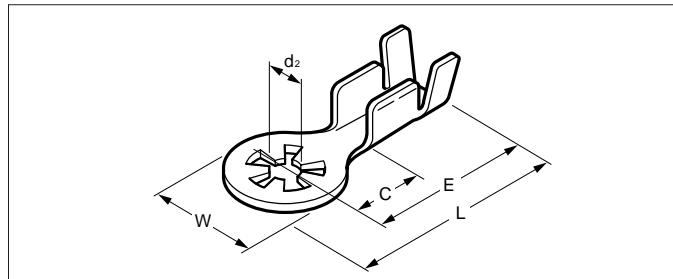
Certified LR20812

Model No.	Standard	Applicable wire		Material	Finish	Dimensions(mm)						Q'ty / reel							
		mm ²	AWG #			d ₂ (dia.)	E	L	C	W	Material thickness								
SRA-20-2.5		0.3 to 0.75	22 to 18	Brass	—	2.5	7.5	9.8	4.2	4.6	0.4	15,000							
SRA-20T-2.5					Tin-plated														
SRA-20-3.2					—	3.2													
SRA-20T-3.2					Tin-plated														
SRA-50-3		0.5 to 2.0	20 to 14	Brass	—	3.2	8.7	12.5	4.7	7.5	0.5	10,000							
SRA-50T-3					Tin-plated														
SRA-50-3.7					—	3.7													
SRA-50T-3.7					Tin-plated														
SRA-50-4					—	4.3													
SRA-50T-4					Tin-plated														
SRA-50-H5					—	5.1													
SRA-50T-H5					Tin-plated														
SRB-50-3		0.5 to 2.0	20 to 14	Brass	—	3.2	12.7	17.0	7.7	8.5	0.5	7,500							
SRB-50T-3					Tin-plated														
SRB-50-3.7					—	3.7													
SRB-50T-3.7					Tin-plated														
SRB-50-4					—	4.3													
SRB-50T-4					Tin-plated														
SRB-50-H5					—	5.1													
SRB-50T-H5					Tin-plated														
SRB-50-5					—	5.3													
SRB-50T-5					Tin-plated														
SRC-50-M3		0.5 to 2.0	20 to 14	Brass	—	3.2	10.0	13.3	6.7	6.5	0.5	15,000							
SRC-50T-M3					Tin-plated														
SRC-50-M3.5					—	3.7													
SRC-50T-M3.5					Tin-plated														
SRC-50-M4					—	4.3													
SRC-50T-M4					Tin-plated														
SRD-20-3.7		0.3 to 0.75	22 to 18	Brass	—	3.7	8.7	12.5	4.7	7.5	0.5	15,000							
SRD-20T-3.7					Tin-plated														
SRD-20-4					—	4.3													
SRD-20T-4					Tin-plated														

RoHS compliance

RING TONGUE TERMINAL

With toothed lock



Recognized E42024

Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel	
		mm ²	AWG #	Insulation O.D. (mm)			d ₂ (dia.)	E	L	C	W		
SRT-51T-3(FE)		0.5 to 1.25	20 to 16	1.7 to 3.4	Iron	Tin-plated	3.1	12.2	16.8	6.1	9.2	0.5	5,000
SRT-51T-4(FE)							4.1						

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRA-01(T)**	AP-K2N	MK-L	MK/SRA-01	APLMK SRA01
		-	-	-
SRA-20(T)**	AP-K2N	MK-L	MK/SRA-20	APLMK SRA20
		-	-	-
SRA-21(T)**	AP-K2N	MK-L	MK/SRA-21	APLMK SRA21
		-	-	-
SRA-50(T)**	AP-K2N	MK-L	MK/SRA-50	APLMK SRA50
		-	-	-
SRA-51(T)**	AP-K2N	MK-L	MK/SRA-51	APLMK SRA51
		-	-	-
SRB-50(T)**	AP-K2N	MK-L	MK/SRB-50	APLMK SRB50
		-	-	-
SRB-51(T)**	AP-K2N	MK-L	MK/SRB-51	APLMK SRB51
		-	-	-

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRC-01(T)**	AP-K2N	MK-L	MK/SRC-01	APLMK SRC01
		-	-	-
SRC-50(T)**	AP-K2N	MK-L	MK/SRC-50	APLMK SRC50
		-	-	-
SRC-51(T)**	AP-K2N	MK-L	MK/SRC-51	APLMK SRC51
		-	-	-
SRD-20(T)**	AP-K2N	MK-L	MK/SDR-20	APLMK SRD20
		-	-	-
SRF-51(T)**	AP-K2N	MK-L	MK/SRF-51	APLMK SRF51
		-	-	-
SRT-51T**	AP-K2N	MK-L	MK/SRT-51	APLMK SRT51
		-	-	-

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

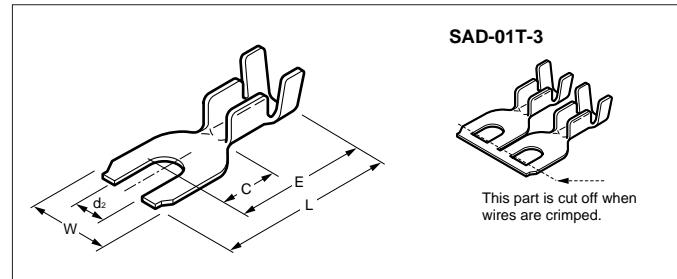
* Contact JST for details.

FORK TONGUE TERMINAL

With insulation grip

Listed E42024

Certified LR20812



Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel					
		mm ²	AWG #	Insulation O.D. (mm)			d ₂ (dia.)	E	L	C	W						
SAA-51-3		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	13.0	16.8	5.8	7.2	0.5					
SAA-51T-3						Tin-plated											
SAA-51-3.7						—	3.7										
SAA-51T-3.7						Tin-plated											
SAA-51-4						—	4.3										
SAA-51T-4						Tin-plated											
SAB-51-5						—	5.3										
SAB-51T-5						Tin-plated											
*SAD-01T-3						Tin-plated	3.2	11.0	14.7	5.2	6.3	5,000					

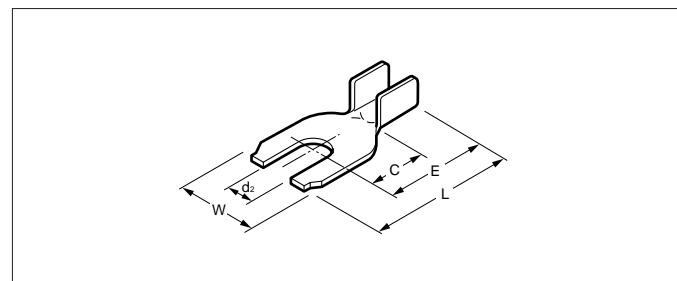
RoHS compliance SAD-01T-3 displays (SN) on a label.

Note: The terminal denoted by * is a twin lead fork terminal and is used for crimping 2 piece terminals simultaneously onto 2 parallel wires like the TV feeder wires.

Without insulation grip

Listed E42024

Certified LR20812

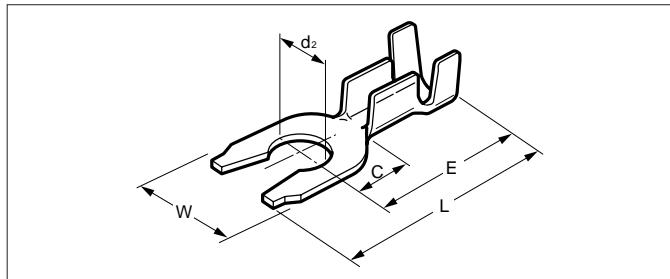


Model No.	Standard	Applicable wire		Material	Finish	Dimensions(mm)					Q'ty / reel					
		mm ²	AWG #			d ₂ (dia.)	E	L	C	W						
SAA-50-3		0.5 to 2.0	20 to 14	Brass	—	3.2	10.0	13.8	6.0	7.2	0.5					
SAA-50T-3					Tin-plated											
SAA-50-3.7					—	3.7										
SAA-50T-3.7					Tin-plated											
SAA-50-4					—	4.3										
SAA-50T-4					Tin-plated											

RoHS compliance

FORK TONGUE TERMINAL

Locking type (With insulation grip)



Listed E42024

Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel							
		mm ²	AWG #	Insulation O.D. (mm)			d_2 (dia.)	E	L	C	W								
SAA-21-3L		0.3 to 0.75	22 to 18	1.5 to 2.8	Brass	—	3.2	13.0	16.8	5.8	7.2	0.5	7,500						
SAA-21T-3L						Tin-plated													
SAA-21-3.5L						—	3.7												
SAA-21T-3.5L						Tin-plated													
SAA-21-4L						—	4.3												
SAA-21T-4L						Tin-plated													

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SAA-21(T)**	AP-K2N	MK-L	MK/SAA-21	APLMK SAA21
		—	—	—
		MK-L	MK/SAA-50	APLMK SAA50
		—	—	—
		MK-L	MK/SAA-51	APLMK SAA51
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SAB-51(T)**	AP-K2N	MK-L	MK/SAB-51	APLMK SAB51
		—	—	—
SAD-01(T)**	AP-K2N	MK-L	MK/SAD-01	APLMK SAD01
		—	—	—

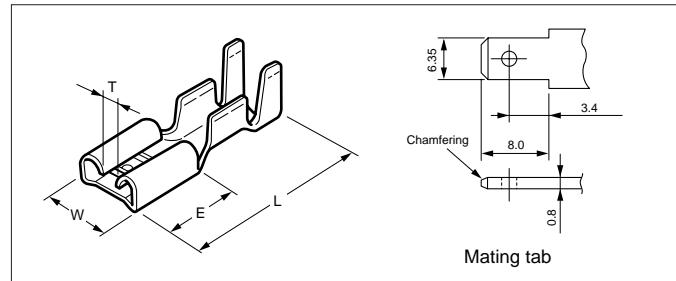
* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

TAB-ON TERMINAL

250 Tab-on type



Listed E70188

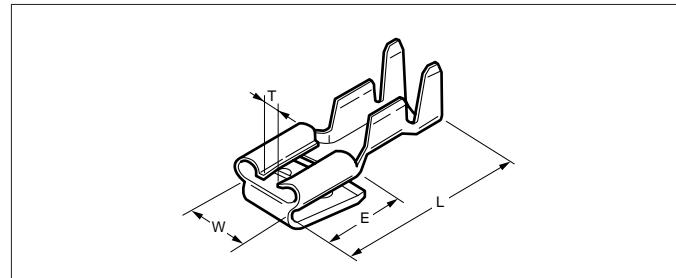
Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	
STO-21-250N		0.3 to 0.75	22 to 18	2.3 to 3.0	Brass	—	7.7	19.0	7.8	2.4	0.4	5,000
STO-21T-250N			—	—		Tin-plated						
STO-61-250N			18 to 14	2.8 to 3.8		—						
STO-61T-250N			18 to 14	2.8 to 3.8		Tin-plated	7.6	19.6	8.0	1.6	0.45	0.8
STO-81-250N			14 to 12	3.8 to 5.0		—						
STO-81T-250N			—	—		Tin-plated						
*STO-62T-250N		UL1015#20 + UL1015#20 UL1015#18 + UL1015#20 UL1015#18 + UL1015#18				Tin-plated						

RoHS compliance

Note: Terminal denoted by * is used only for two wires. If using wires in other combinations than the ones shown above, contact JST.

250 Tab-on piggyback type



Listed E70188

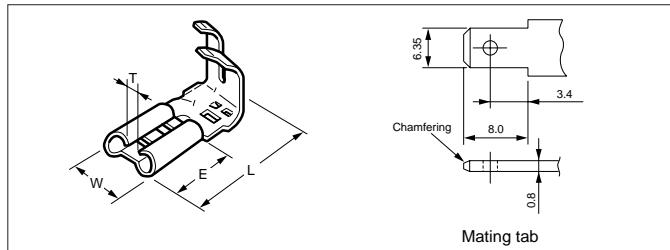
Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel	
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness		
SFT-61T-250N		0.75 to 2.0	18 to 14	2.8 to 3.9	Brass	Tin-plated	7.6	19.6	8.3	2.9	0.39	0.8	3,000

RoHS compliance

TAB-ON TERMINAL

250 Tab-on flag type



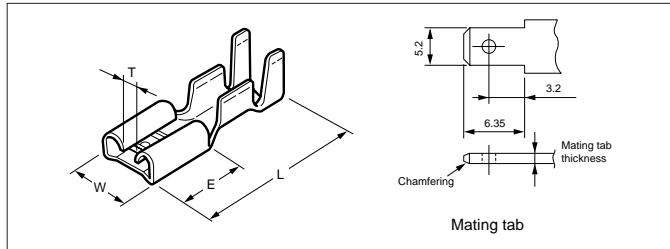
Listed E70188

Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel	
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness		
SFO-61-250A		0.75 to 2.0	18 to 14	2.8 to 3.8	Brass	—	8.0	16.1	7.8	3.0	0.45	0.8	3,000
SFO-61T-250A						Tin-plated							

RoHS compliance

205 Tab-on type



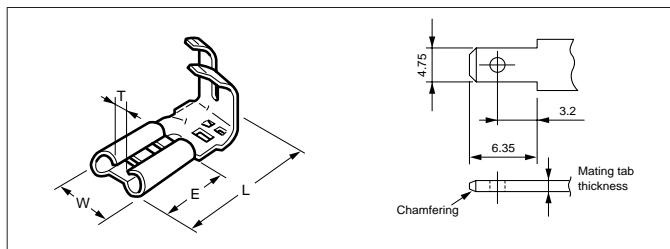
Listed E70188

Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	
STO-21-205N		0.3 to 0.75	22 to 18	2.3 to 3.0	Brass	—	6.4	15.9	6.4	0.7	0.4	0.8
STO-21T-205N						Tin-plated						7,500
STO-21-205N-5						—	6.4	15.9	6.4	0.7	0.4	0.5
STO-21T-205N-5						Tin-plated						

RoHS compliance

187 Tab-on flag type



Listed E70188

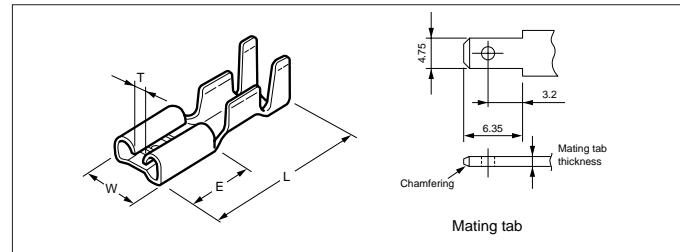
Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	
SFO-41-187N		0.5 to 1.25	20 to 16	2.6 to 3.5	Brass	—	5.6	12.3	6.4	1.0	0.32	0.5
SFO-41T-187N						Tin-plated						5,000
SFO-41-187N-8						—						
SFO-41T-187N-8						Tin-plated						0.8

RoHS compliance

TAB-ON TERMINAL

187 Tab-on type



Listed E70188

Recognized E70188 (AWG#24)

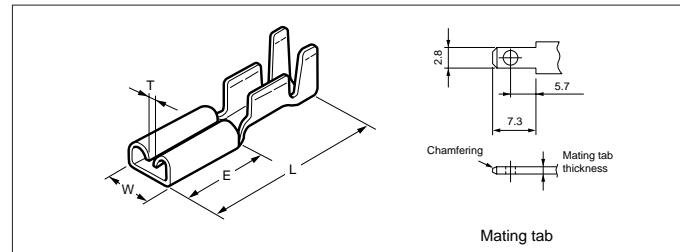
Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel			
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness				
STO-01-187N		0.2 to 0.5	24 to 20	1.5 to 2.6	Brass	—	5.6	15.0	6.3	1.5	0.32	0.5			
STO-01T-187N						Tin-plated						10,000			
STO-01-187N-8						—						0.8			
STO-01T-187N-8						Tin-plated									
STO-41-187N		0.5 to 1.25	20 to 16	2.6 to 3.5	Brass	—	5.6	15.0	6.3	1.5	0.32	0.5			
STO-41T-187N						Tin-plated						10,000			
STO-41-187N-8						—						0.8			
STO-41T-187N-8						Tin-plated									
*STO-62T-187N		UL1015#20 + UL1015#20 UL1015#18 + UL1015#20 UL1015#18 + UL1015#18			Brass	Tin-plated	5.6	19.6	6.4	1.5	0.32	0.5	4,000		
*STO-82T-187N		UL1015#18 + UL1015#18 UL1015#18 + UL1015#16 UL1015#16 + UL1015#16			Brass	Tin-plated	5.6	19.6	6.4	1.5	0.32	0.5	4,000		

RoHS compliance

Note: Terminal denoted by * is used only for two wires. If using wires in other combinations than the ones shown above, contact JST.

110 Tab-on type



Listed E70188

Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	
STO-01-110N		0.2 to 0.5	24 to 20	2.1 to 2.8	Brass	—	3.7	15.4	6.3	0.6	0.25	0.5
STO-01T-110N						Tin-plated						10,000
STO-01-110N-8						—						0.8
STO-01T-110N-8						Tin-plated						0.5
STO-41-110N		0.5 to 1.25	20 to 16	2.6 to 3.5	Brass	—	3.7	15.4	6.3	0.6	0.25	0.8
STO-41T-110N						Tin-plated						10,000
STO-41-110N-8						—						0.5
STO-41T-110N-8						Tin-plated						0.8

RoHS compliance

TAB-ON TERMINAL

Crimping machine, Applicator

Contact	Crimping machine	Applicator			Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies			Crimp applicator	Dies	Crimp applicator with dies
STO-21(T)-250N	AP-K2N	MK-L	MK/STO-21-250N	APLMK STO21-250N	STO-01(T)-187N(-8)	AP-K2N	MK-L	MK/STO-01-187N	APLMK STO01-187N
STO-61(T)-250N		-	-	-	STO-41(T)-187N(-8)		-	-	-
STO-81(T)-250N		MK-L	MK/STO-61-250N	APLMK STO61-250N	STO-62T-187N		MK-L	MK/STO-41-187N	APLMK STO41-187N
STO-62(T)-250N		-	-	-	STO-82(T)-187N		-	-	-
SFT-61(T)-250N		MK-L	MK/STO-62-250N	APLMK STO62-250N	STO-01(T)-110N(-8)		MK-L-187	MK/STO-62-187N	APLMK STO62-187N
SFO-61(T)-250A		-	-	-	STO-41(T)-110N(-8)		MK-L-187	MK/STO-82-187N	APLMK STO82-187N
STO-21(T)-205N(-5)		MKS-L	MK/SFT-61-250N	APL SFT61-250N			-	-	-
SFO-41(T)-187N(-8)		-	-	-			MK-L	MK/STO-01-110N	APLMK STO01-110N
		MKF-L-250	MK/SFO-61-250A	APL SFO61-250A			-	-	-
		-	-	-			MK-L	MK/STO-41-110N	APLMK STO41-110N
		MK-L	MK/STO-21-205N	APL STO21-205N			-	-	-
		-	-	-					
		MKF-L-187	MK/SFO-41-187N	APL SFO41-187N					
		-	-	-					

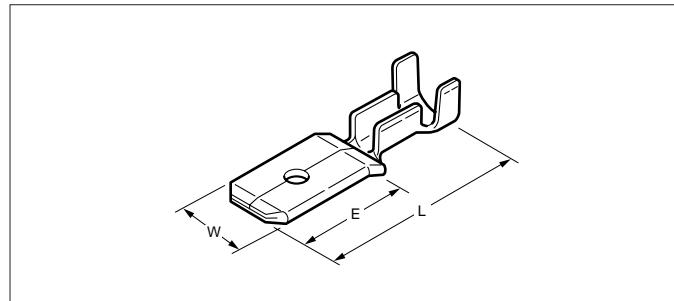
* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using
Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

TAB-ON-TAB TERMINAL

250 Tab-on tab type

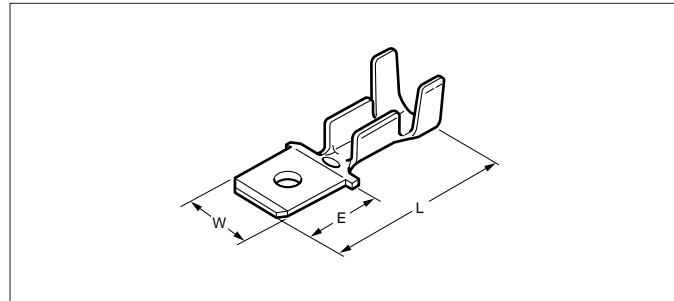


Listed E70188

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	Material thickness	Tab thickness	
SOM-51-250		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	6.4	20.8	11.6	0.4	0.8	5,000
SOM-51T-250						Tin-plated						

RoHS compliance

187 Tab-on tab type



Listed E70188

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	Material thickness	Tab thickness	
SOM-21-187		0.3 to 0.75	22 to 18	2.3 to 3.0	Brass	—	4.8	17.2	6.4	0.5	0.5	10,000
SOM-21T-187						Tin-plated						

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SOM-51(T)-250	AP-K2N	MK-L	MK/SOM-51-250	APLMK SOM51-250
		—	—	—

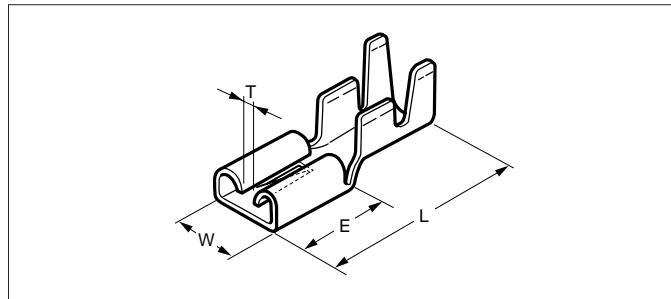
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SOM-21(T)-187	AP-K2N	MK-L	MK/SOM-21-187	APLMK SOM21-187
		—	—	—

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

TAB-IN/TAB-IN-TAB TERMINAL

250 Tab-in type

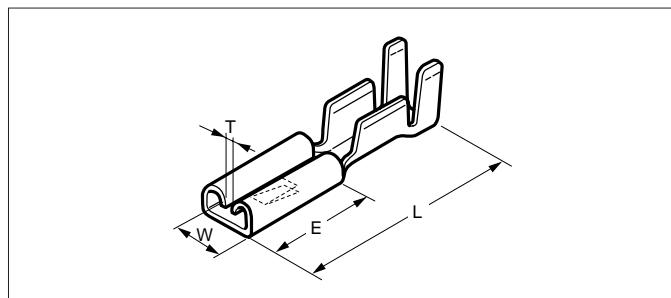


Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	
STI-51-250N		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	7.5	19.2	7.7	0.9	0.32	SIM-51 (T)-250N
STI-51T-250N						Tin-plated						5,000

RoHS compliance

- Note: 1. Combine a plated tab-in terminal with a plated tab and a non-plated tab-in terminal with a non-plated tab.
 2. This terminal must be built into the model 250 tab-in housing which has numerous circuits, and it cannot be used independently.
 Model 250 tab-on terminals, however, can be used independently.
 3. The above case does not apply when we confirm the condition of application and judge that there is no problem.

110 Tab-in type



Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	
STI-01-110N		0.3 to 0.5	22 to 20	2.1 to 2.8	Brass	—	3.7	15.3	6.3	0.7	0.25	SIM-01 (T)-110A
STI-01T-110N						Tin-plated						10,000
STI-41-110N		0.5 to 1.25	20 to 16	2.6 to 3.5		—						
STI-41T-110N						Tin-plated						SIM-41 (T)-110B

RoHS compliance

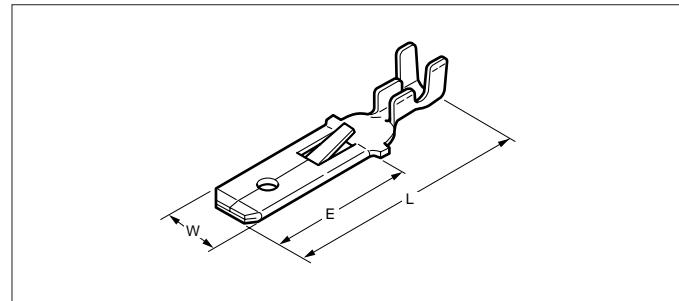
- Note: 1. Combine a plated tab-in terminal with a plated tab and a non-plated tab-in terminal with a non-plated tab.
 2. This terminal must be built into the model 110 tab-in housing which has numerous circuits, and it cannot be used independently. Model 110 tab-on terminals, however, can be used independently.

Crimping machine, Applicator

Contact	Crimping machine	Applicator			Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies			Crimp applicator	Dies	Crimp applicator with dies
STI-51(T)-250N	AP-K2N	MK-L	MK/STI-51-250N	APLMK STI51-250N	STI-41(T)-110N	AP-K2N	MK-L	MK/STI-41-110N	APLMK STI41-110N
		—	—	—			—	—	—
STI-01(T)-110N	AP-K2N	MK-L	MK/STI-01-110N	APLMK STI01-110N			MK-L	MK/STI-41-110N	APLMK STI41-110N
		—	—	—			—	—	—

TAB-IN/TAB-IN-TAB TERMINAL

250 Tab-in tab type

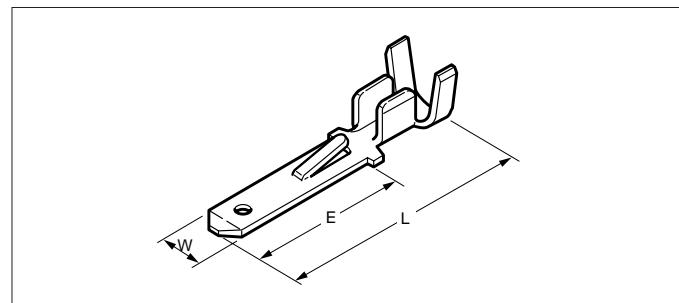


Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel		
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	Material thickness	Tab thickness			
SIM-21-250		0.3 to 0.75	22 to 18	2.2 to 3.2	Brass	—	6.0	28.0	15.8	0.4	0.84	5,000		
SIM-21T-250		0.5 to 2.0	20 to 14	2.6 to 3.8		Tin-plated	6.0	24.5	13.0	0.4		4,000		
SIM-51-250N						—								
SIM-51T-250N						Tin-plated								

RoHS compliance

Note: SIM-21 differs from SIM-51 in terminal size.

110 Tab-in tab type



Listed E70188

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q'ty / reel		
		mm ²	AWG #	Insulation O.D. (mm)			W	L	E	Material thickness	Tab thickness			
SIM-01-110A		0.3 to 0.5	22 to 20	2.1 to 2.8	Brass	—	2.8	20.6	12.0	0.5	0.5	7,500		
SIM-01T-110A		0.5 to 1.25	20 to 16	2.6 to 3.5		Tin-plated								
SIM-41-110B						—	MK-L	MK/SIM-01-110A	APL MK SIM01-110A	0.5	0.5			
SIM-41T-110B						Tin-plated								

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIM-21(T)-250	AP-K2N	MK-L	MK/SIM-21-250	APL MK SIM21-250
		—	—	—
		MK-L	MK/SIM-51-250N	APL MK SIM51-250N
		—	—	—
SIM-51(T)-250N				

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIM-01(T)-110A	AP-K2N	MK-L	MK/SIM-01-110A	APL MK SIM01-110A
		—	—	—
SIM-41(T)-110B		MK-L	MK/SIM-41-110B	APL MK SIM41-110B
		—	—	—

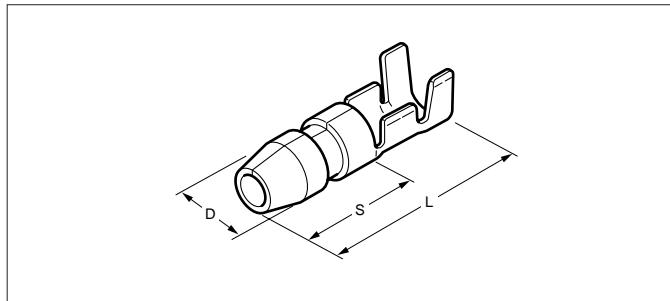
* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

BULLET TERMINAL

Nominal 4.0mm dia. bullet male



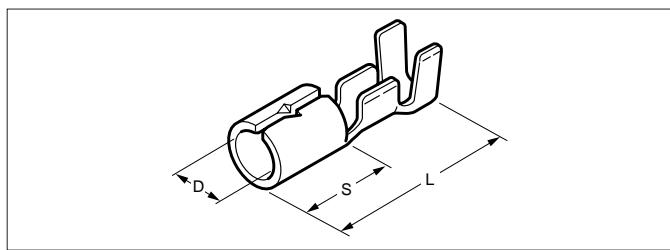
Recognized E60389

Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)				Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			D (dia.)	L	S	Material thickness	
SGM-51-4		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.55	15.9	7.3	0.5	5,000
SGM-51T-4						Tin-plated					

RoHS compliance

Nominal 4.0mm dia. bullet female



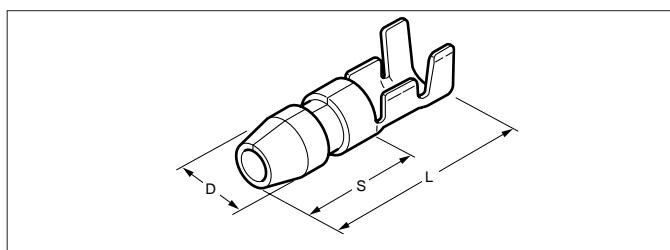
Recognized E60389

Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)				Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			D (dia.)	L	S	Material thickness	
SGF-41-4		0.5 to 1.25	20 to 16	2.6 to 3.5	Brass	—	3.5	17.5	6.4	0.32	7,500
SGF-41T-4						Tin-plated					

RoHS compliance

Nominal 5.0mm dia. bullet male



Recognized E60389

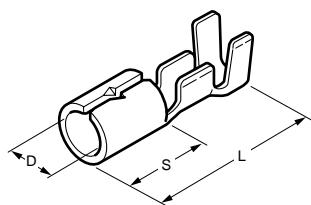
Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)				Q'ty / reel
		mm ²	AWG #	Insulation O.D. (mm)			D (dia.)	L	S	Material thickness	
SGM-21-5		0.3 to 0.75	22 to 18	1.7 to 2.9	Brass	—	3.96	17.5	8.9	0.5	5,000
SGM-21T-5						Tin-plated					
SGM-51-5		0.5 to 2.0	20 to 14	2.6 to 3.8		—					
SGM-51T-5						Tin-plated					

RoHS compliance

Nominal 5.0mm dia. bullet female

Type A



Recognized E60389

Certified LR20812

Model No.	Standard	Applicable wire			Material	Type	Finish	Dimensions(mm)				Q'ty / reel		
		mm ²	AWG #	Insulation O.D. (mm)				D (dia.)	L	S	Material thickness			
SGF-21-5		0.3 to 0.75	22 to 18	1.7 to 2.9	Brass	A	—	3.96	17.5	6.4	0.4	5,000		
SGF-21T-5							Tin-plated							
SGF-51-5		0.5 to 2.0	20 to 14	2.6 to 3.8			—							
SGF-51T-5							Tin-plated							

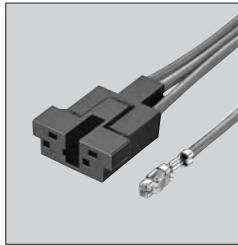
Crimping machine, Applicator

Contact	Crimping machine	Applicator			
		Crimp applicator	Dies	Crimp applicator with dies	
SGM-51(T)-4	AP-K2N	MK-L	MK/SGM-51-4	APLMK SGM51-4	
		—	—	—	
SGF-41(T)-4		MK-L	MK/SGF-41-4	APLMK SGF41-4	
		—	—	—	
SGM-21(T)-5		MK-L	MK/SGM-21-5	APLMK SGM21-5	
		—	—	—	

Contact	Crimping machine	Applicator			
		Crimp applicator	Dies	Crimp applicator with dies	
SGM-51(T)-5	AP-K2N	MK-L	MK/SGM-51-5	APLMK SGM51-5	
		—	—	—	
SGF-21(T)-5		MK-L	MK/SGF-21-5	APLMK SGF21-5	
		—	—	—	
SGF-51(T)-5		MK-L	MK/SGF-51-5	APLMK SGF51-5	
		—	—	—	

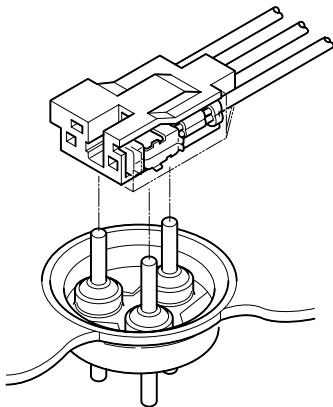
* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.



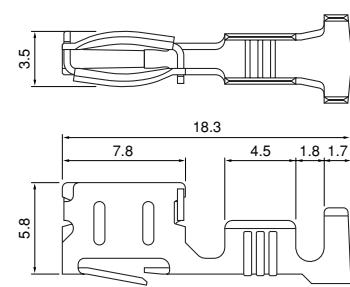
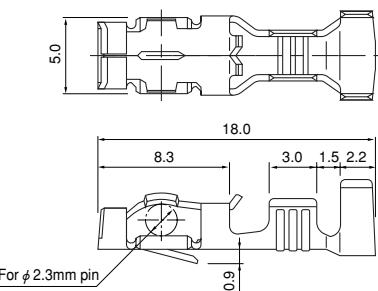
CLUSTER SOCKET

Three-pole socket for connecting cluster pins

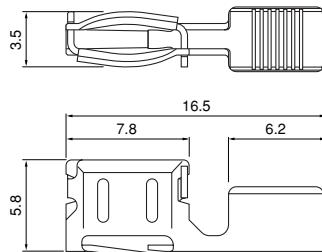


This three circuit connector is used to connect cluster pins (2.3mm in diameter) to the leads of a motor hermetically sealed in a compressor of a refrigerator or a freezer. The contacts and housing are especially designed and made of high-quality materials for high heat resistance and superior durability.

Contact



One wire crimping



Standards

■ Recognized E60389

■ Certified LR20812

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCS-41T-2.3	0.5~1.25	20~16	1.9~3.4	5,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCSN-41T-P2.3	0.5~1.25	20~16	1.9~3.2	3,000
SCSN-60T-P2.3	0.7 mm +0.7 mm ~ 1.05 mm +1.05 mm			3,000

Material and Finish

Phosphor bronze, tin-plated

RoHS compliance

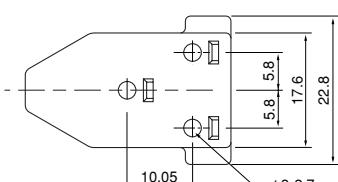
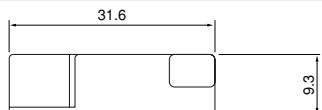
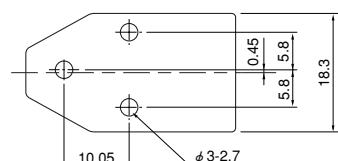
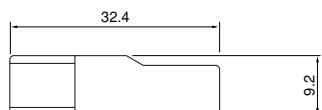
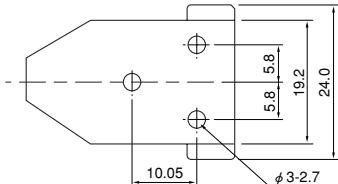
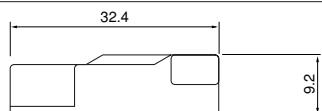
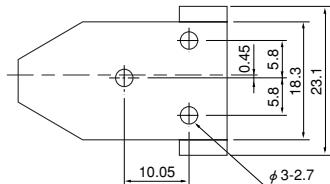
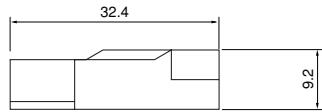
Note: 1. SCSN-60T-P2.3 is for the use of one wire crimping. Contact JST for details of regarding applicable wires.

2. Before use, the performance of this socket must be tested with the wire that is to be used.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCS-41T-2.3	AP-K2N	MK-L	MK/SCS-41-23	APLMK SCS41-23
		—	—	—
SCSN-41T-P2.3	AP-K2N	MKS-L	MK/SCSN-41-23	APLMK SCSN41-23
		—	—	—
SCSN-60T-P2.3	AP-K2N	MKS-L	MK/SCSN-60-23	APLMK SCSN60-23
		—	—	—

CLUSTER SOCKET

Housing



Model No.	Material	Q'ty / bag	Applicable contact
3P-SCS	Phenol, UL94V-1, black		
3P-SCS PBT	PBT, UL94HB, natural (white)	500	SCS-41T-2.3

RoHS compliance

Model No.	Material	Q'ty / bag	Applicable contact
3P-SCS-SP	PBT, UL94HB, natural (white)	500	SCS-41T-2.3

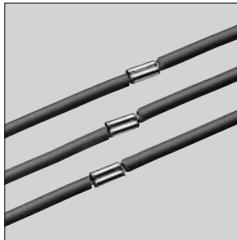
RoHS compliance

Model No.	Material	Q'ty / bag	Applicable contact
3P-SCS-R PBT	PBT, UL94HB, natural (white)	500	SCS-41T-2.3

RoHS compliance

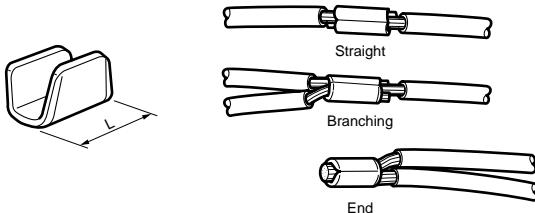
Model No.	Material	Q'ty / bag	Applicable contact
3P-CSN PBT	PBT, UL94HB, natural (white)		SCSN-41T-P2.3
3P-CSN MMC	Phenol, UL94V-0, black	500	SCSN-60T-P2.3

RoHS compliance



SPC SPLICE

Wire-to-wire splices



This wire-to-wire splice is used extensively for straight, branching, and end connections.

Model No.	Applicable wire(reference) Total cross sectional area(mm^2)	Finish	Dimension L (mm)	Thickness (mm)	Q'ty / reel
SPC-01	0.2 ~ 0.5	—	4.2	0.25	12,000
SPC-01T		Tin-plated			
SPC-20	0.4 ~ 1.4	—	5.5	0.5	10,000
SPC-20T		Tin-plated			
SPC-40	0.5 ~ 1.7	—	5.7		
SPC-40T		Tin-plated			

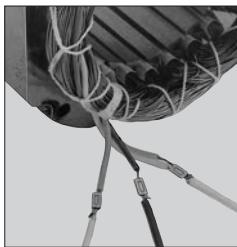
Material

Brass

RoHS compliance

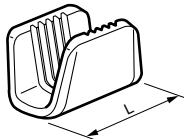
Note: The "Applicable wire" shown above is for reference only. Contact JST for the evaluation test on the wire to be used, especially when using special wires such as solid wires, tin-plated wires, or those of non-annealed copper material.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPC-01(T)	AP-K2N	MKS-L	MK/SPC-01	APLMK SPC01
SPC-20(T)		—	—	—
SPC-40(T)	AP-K2N	MKS-L	MK/SPC-20	APLMK SPC20
		—	—	—
	AP-K2N	MKS-L	MK/SPC-40	APLMK SPC40
		—	—	—



PIERCING SPLICE

Wire-to-wire splices



This splice, like the SPC terminal, has special channels inside its crimp areas so that insulation-coated windings (magnet wire like enamel-coated wire, etc.) can be electrically connected without removing the insulation coating. It is suited for connections between the windings of motors, relays and other rotating devices, and the connections between the windings and the leads of such devices.

Model No.	Applicable wire(reference) Total cross sectional area(mm^2)	Finish	Dimension L (mm)	Thickness (mm)	Q'ty / reel
PSL-40	0.6 ~ 1.0	—	5.5	0.5	10,000
PSL-40T		Tin-plated			
PSL-60	0.7 ~ 1.8	—	5.7	0.5	10,000
PSL-60T		Tin-plated			
PSL-80	1.5 ~ 3.5	—	5.5		
PSL-80T		Tin-plated			

Material

Brass

RoHS compliance

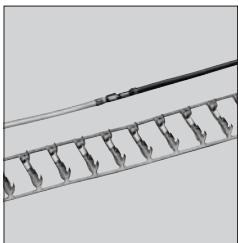
Note: 1. The applicable wire size (total sectional area) above serves as a basic guideline. Before use, the performance of this connector must be tested with the wire that is to be used.
2. Do not use this connector to connect more than two magnet wires (enamel-coated wires, etc.).

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
PSL-40(T)	AP-K2N	MKS-L	MK/PSL-40	APLMK PSL40
—		—	—	—
PSL-60(T)	AP-K2N	MKS-L	MK/PSL-60	APLMK PSL60
—		—	—	—
PSL-80(T)	AP-K2N	MKS-L	MK/PSL-80	APLMK PSL80
—		—	—	—

* RoHS compliant products are published.

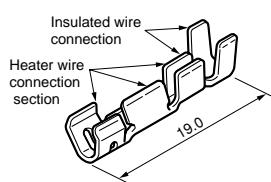
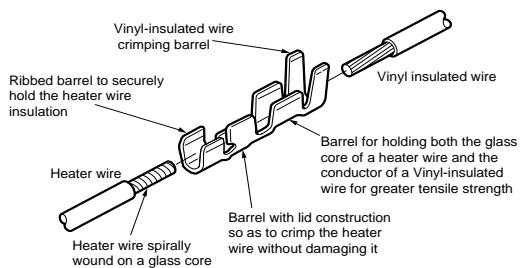
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.



SPICE FOR HEATER WIRES

Splices for vinyl-insulated wires and heater wires



This splice is used to connect a vinyl-insulated wire to a defrosting heater wire of a refrigerator or a freezer.

The barrel of the splice has a lid feature that prevents the heater wire from being damaged or broken during crimping. This ensures a reliable and stable connection.
Various heater connectors are also available.

Model No.	Applicable wire(reference)	Finish	Q'ty / reel
SHC-21-001	Heater wire + Vinyl-insulated wire (Thin insulation) (0.3~0.75mm ²)	—	5,000
SHC-21T-001	Tin-plated		
SHC-21-002	Heater wire + Vinyl-insulated wire (Thick insulation) (0.3~0.75mm ²)	—	
SHC-21T-002	Tin-plated		

Material

Brass

RoHS compliance

Note: Before use, the performance of this splice must be tested with the wire that is to be used.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHC-21(T)-001	MKS-L-HC	MKSHC-21-001/002	APLMK SHC21-001/002	
SHC-21(T)-002	AP-K2N	—	—	—

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.



PS CONNECTOR

Connectors for tabs

- Secure locking, easy insertion
- Stable contact performance
- Mis-insertion prevention mechanism and housing lance

Standards

Recognized E60389

Certified LR20812

R9850196

Specifications

- Current rating: 25A AC, DC (#250 + AWG #10)
- Voltage rating: 250V AC, DC
- Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 3m Ω max.
After environmental testing/ 6m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 2,000V AC/ minute
- Applicable wire: #110...AWG #24 to #16
#187...AWG #26 to #14
#205...AWG #22 to #14
#250...AWG #22 to #10
- Applicable Tab: #110 Tab 0.5mm thick
#187 Tab 0.5mm/0.8mm thick
#205 Tab 0.5mm/0.8mm thick
#250 Tab 0.8mm thick

* RoHS compliant products are published.

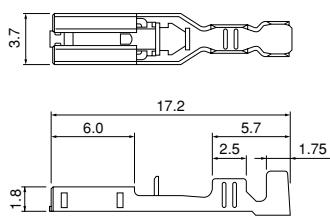
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

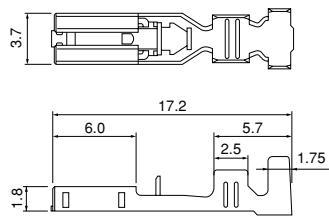
Contact

#110 Series

SPS-01T-110



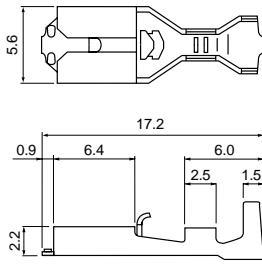
SPS-41T-110



#187 Series

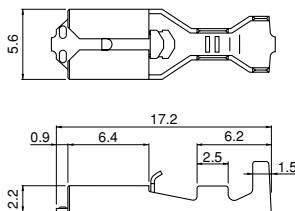
SPS-01T-187

(for 0.5mm thick tabs)



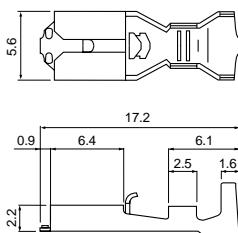
SPS-01T-187-8

(for 0.8mm thick tabs)



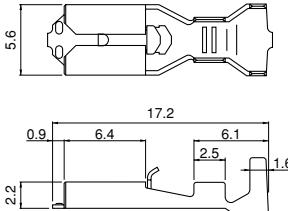
SPS-51T-187

(for 0.5mm thick tabs)



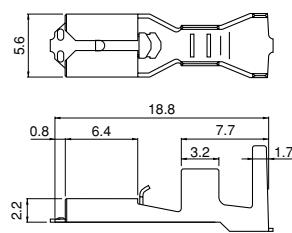
SPS-51T-187-8

(for 0.8mm thick tabs)



SPS-82T-187

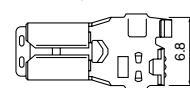
(for 0.5mm thick tabs)



<Flag type>

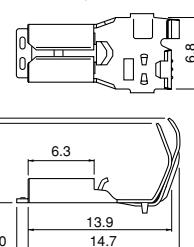
SFPS-41T-187

(for 0.5mm thick tabs)



SFPS-41T-187-8

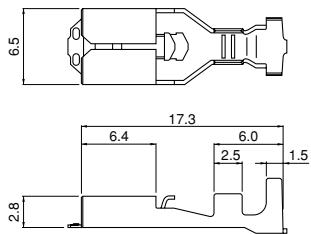
(for 0.8mm thick tabs)



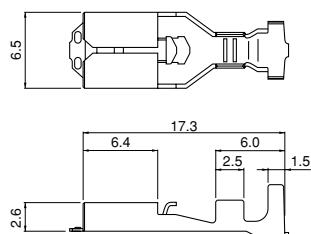
Contact

#205 Series

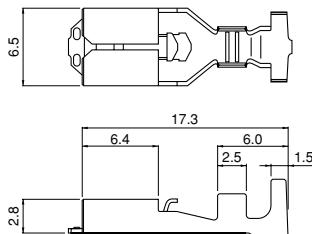
SPS-21T-205
(for 0.8mm thick tabs)



SPS-21T-205-5
(for 0.5mm thick tabs)

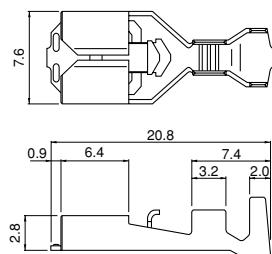


SPS-51T-205
(for 0.8mm thick tabs)

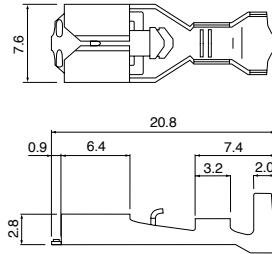


#250 Series

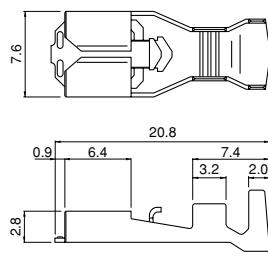
SPS-21T-250



SPS-61T-250

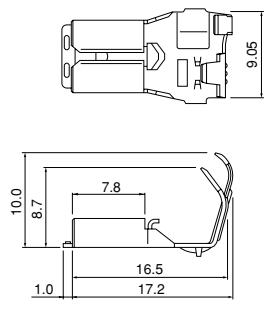


SPS-91T-250

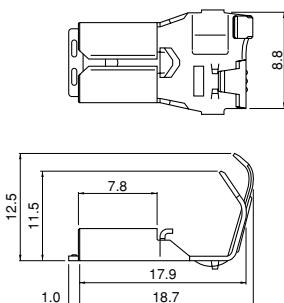


<Flag type>

SFPS-61T-250

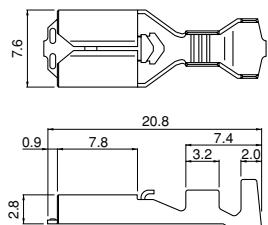


SFPS-91T-250

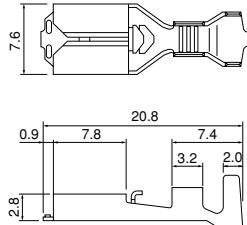


#250S Series

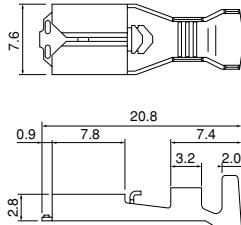
SPS-21T-250S



SPS-61T-250S



SPS-91T-250S



PS CONNECTOR

Contact

Series		Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
			mm ²	AWG #		
#110		SPS-01T-110	0.21~0.5	24~20	1.0~2.5	10,000
		SPS-41T-110	0.5 ~ 1.31	20~16	1.9~3.4	10,000
#187	for 0.5mm thick tabs	SPS-01T-187	0.13~0.5	26~20	1.3~3.4	10,000
		SPS-51T-187	0.5 ~ 2.0	20~14	1.9~3.6	7,500
	for 0.8mm thick tabs	SPS-82T-187	0.75+0.75~1.25+1.25	18+18~16+16	2.1+2.1~2.9+2.9	3,500
		SPS-01T-187-8	0.13~0.5	26~20	1.3~3.4	10,000
#187 flag	for 0.5mm thick tabs for 0.8mm thick tabs	SPS-51T-187-8	0.5 ~ 2.0	20~14	1.9~3.6	7,500
		SFPS-41T-187	0.3 ~ 1.25	22~16	1.7~3.4	5,000
#205	for 0.8mm thick tabs for 0.5mm thick tabs for 0.8mm thick tabs	SFPS-41T-187-8	0.3 ~ 1.31	22~16	1.7~3.4	5,000
		SPS-21T-205	0.3 ~ 0.75	22~18	1.5~3.1	5,000
		SPS-21T-205-5	0.3 ~ 0.75	22~18	1.5~3.1	5,000
	SPS-51T-205	0.5 ~ 2.0	20~14	1.9~3.6	5,000	
#250		SPS-21T-250	0.3 ~ 0.75	22~18	1.5~3.1	5,000
		SPS-61T-250	0.75~2.0	18~14	2.1~3.9	5,000
		SPS-91T-250	2.0 ~ 5.5	14~10	3.0~4.7	4,000
#250 flag		SFPS-61T-250	0.75~2.0	18~14	2.1~3.9	3,000
		SFPS-91T-250	3.5 ~ 5.5	12~10	4.0~5.2	2,000
#250S		SPS-21T-250S	0.3 ~ 0.75	22~18	1.5~3.1	5,000
		SPS-61T-250S	0.75~2.0	18~14	2.1~3.9	5,000
		SPS-91T-250S	2.0 ~ 5.5	14~10	3.0~4.7	4,000

Material and Finish

Brass, tin-plated (reflow treatment)

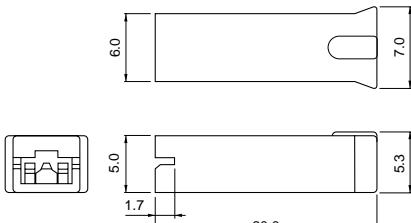
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPS-01T-110	AP-K2N	MK-L-SPS	MK/SPS-01-110	APLMK SPS01-110
SPS-41T-110		—	—	—
SPS-01T-187 (-8)		MK-L-SPS	MK/SPS-41-110	APLMK SPS41-110
SPS-51T-187 (-8)		—	—	—
SPS-82T-187		MK-L-SPS	MK/SPS-01-187	APLMK SPS01-187
SFPS-41T-187 (-8)		—	—	—
SPS-21T-205 (-5)		MK-L-SPS	MK/SPS-51-187	APLMK SPS51-187
SPS-21T-205		—	—	—
SPS-82T-187		MK-L-SPS	MK/SPS-82-187	APLMK SPS82-187
SFPS-41T-187 (-8)		MKF-L-PS187	MK/SFPS-41-187	APL SFPS41-187

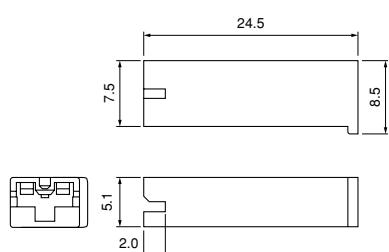
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPS-51T-205	AP-K2N	MK-L-SPS	MK/SPS-51-205	APLMK SPS51-205
SPS-21T-250 (S)		—	—	—
SPS-61T-250 (S)		MK-L-SPS	MK/SPS-21-250	APLMK SPS21-250
SPS-91T-250 (S)		—	—	—
SFPS-61T-250		MK-L-SPS	MK/SPS-61-250	APLMK SPS61-250
SFPS-91T-250		—	—	—

Housing

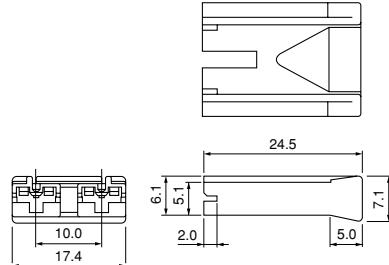
#110 Series PS-110



#187 Series PS-187



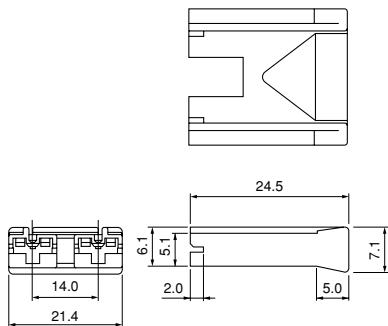
PS-187-2A-10



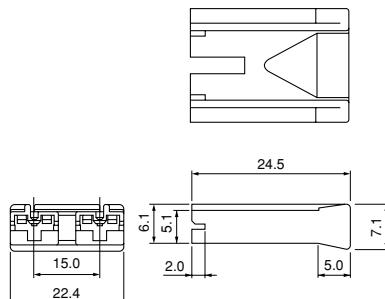
Housing

#187 Series

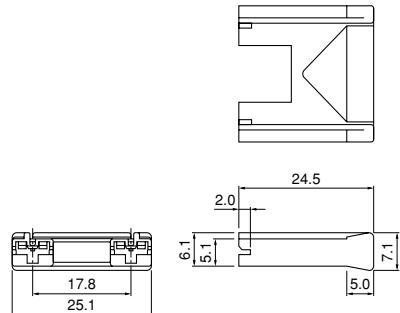
PS-187-2A-14



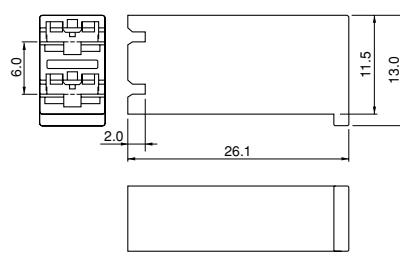
PS-187-2A-15



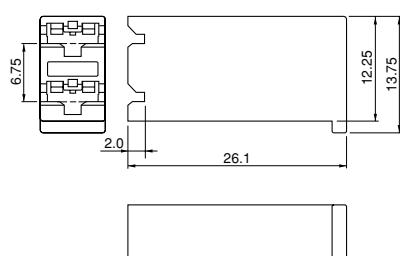
PS-187-2A-17.8



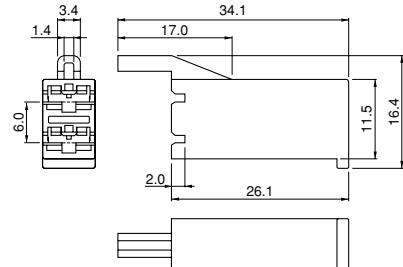
PS-187-2B



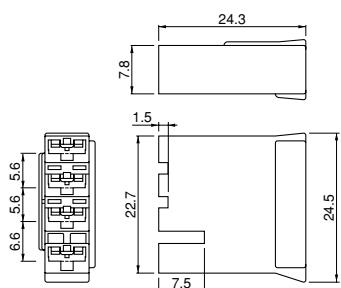
PS-187-2B-6.75



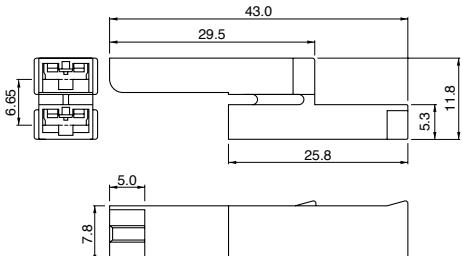
PS-187-2B1



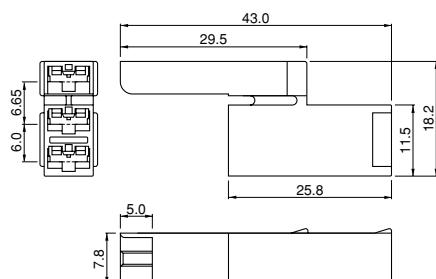
PS-187-4B



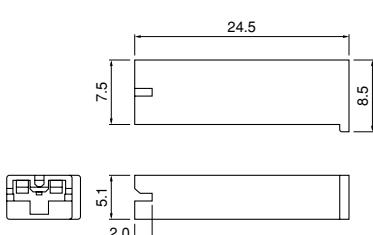
PS-187-2V



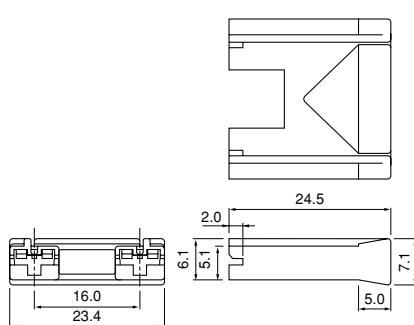
PS-187-3V



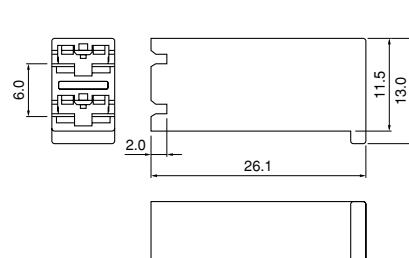
PS-187-8-T-H



PS-187-2A-16-8-T-H



PS-187-2B-8-T-H

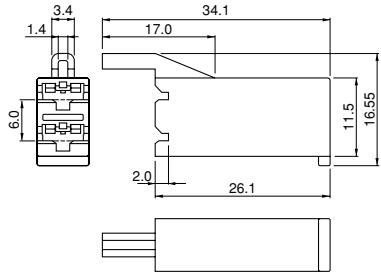


PS CONNECTOR

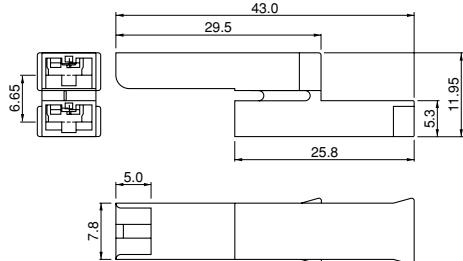
Housing

#187 Series

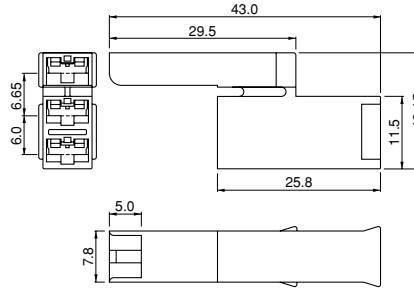
PS-187-2B1-8-T-H



PS-187-2V-8-T-H

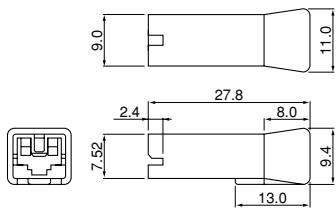


PS-187-3V-8-T-H



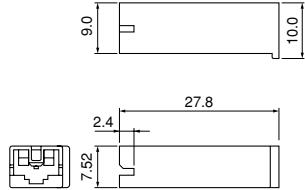
#250S Series

NPS-250-A

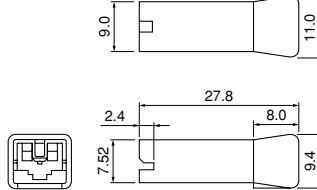


#250 Series

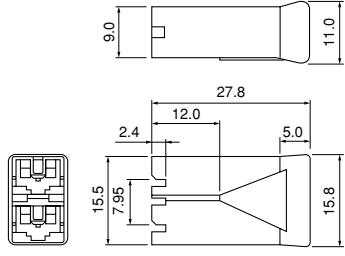
PS-250



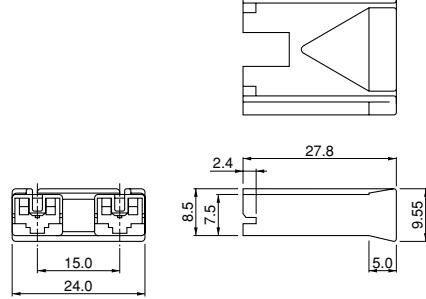
PS-250-A



PS-250-2B

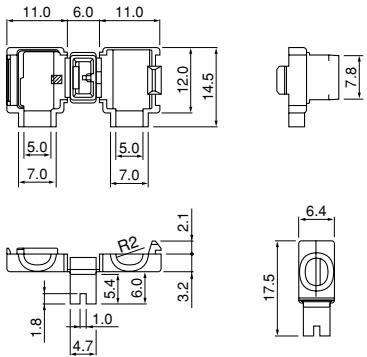


PS-250-2A-15

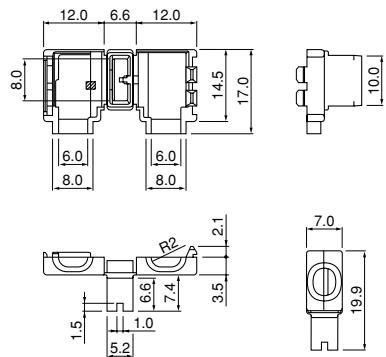


One-touch sleeve

FPS-187



FPS-250



Housing

Series	Model No.	Q'ty / bag	Applicable terminal
#110	PS-110	1,000	SPS-01T-110, SPS-41T-110 SPS-01T-187 SPS-51T-187 SPS-82T-187
	PS-187	1,000	
	PS-187-2A-10	500	
	PS-187-2A-14	500	
	PS-187-2A-15	500	
	PS-187-2A-17.8	500	
	PS-187-2B	500	
	PS-187-2B-6.75	500	
	PS-187-2B1	500	
	PS-187-4B	500	
#187	PS-187-2V	500	SPS-01T-187-8 SPS-51T-187-8
	PS-187-3V	500	
	*PS-187-8-T-H	1,000	
	*PS-187-2A-16-8-T-H	500	
	*PS-187-2B-8-T-H	500	
	*PS-187-2B1-8-T-H	500	
	*PS-187-2V-8-T-H	500	
	*PS-187-3V-8-T-H	500	
	NPS-250-A	1,000	
	PS-250	1,000	
#250	PS-250-A	500	SPS-21T-250 SPS-61T-250 SPS-91T-250
	PS-250-2B	500	
	PS-250-2A-15	500	
One-touch sleeve	FPS-187	500	SFPS-41T-187 SFPS-61T-250
	FPS-250	500	

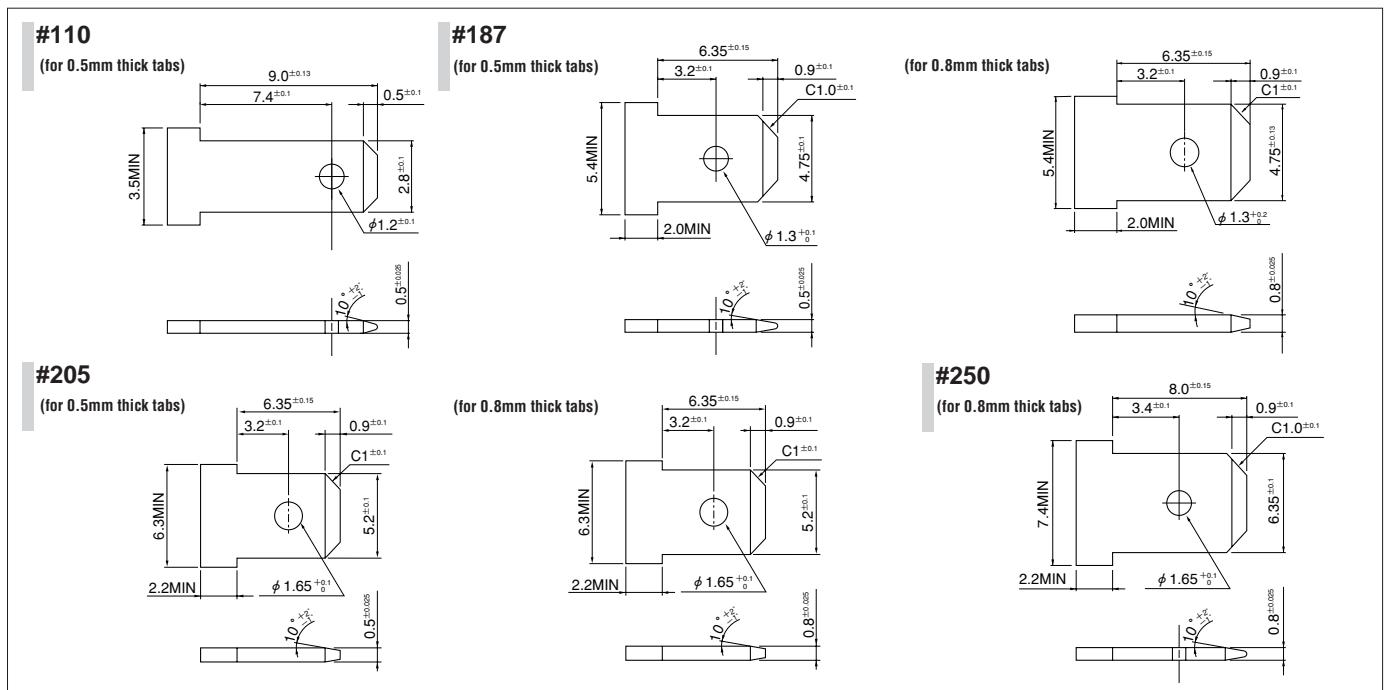
Material and Finish

PA 66, UL94V-0, natural (white)
UL94V-2, gray <*-marked housing...for 0.8mm thick tabs>

RoHS compliance

Note: FPS-187 and FPS-250 are UL recognized with File No. E55167, but not CSA certified.

Applicable tab



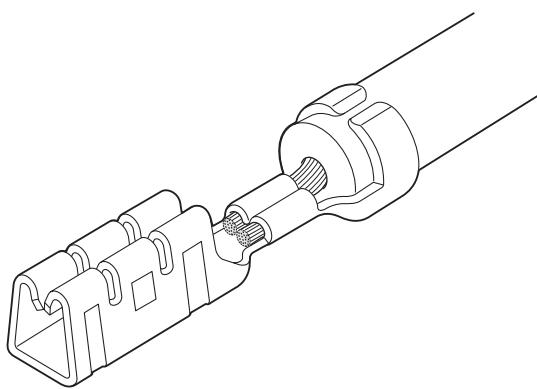
Note: 1. Contact JST when using PS connector for Micro-switch.

2. Make sure there are no unneeded ribs or other protuberances on tab surfaces.

3. Contact JST when using PS-187-4B.



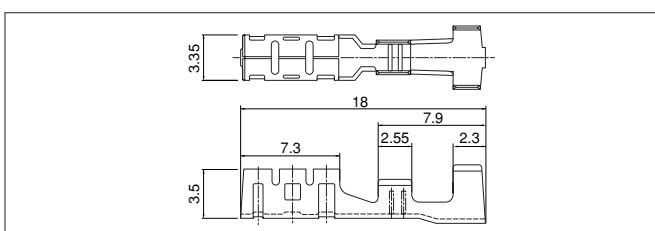
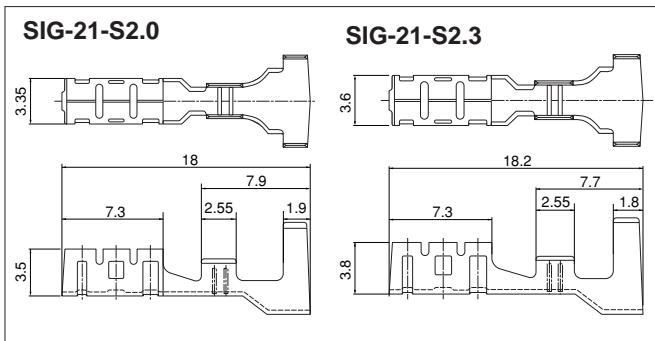
IG CONNECTOR



This is to connect ignition plug (size 2.0mm dia.) of the Hot Water Supply and Heater.

- **Easy connection**
- **Reliable contact resistance**
- **Excellent durability**

Contact



Specifications

- Current rating: 320mA AC, DC (Stainless steel)
5A AC, DC (Copper alloy)
- Voltage rating: 23KV AC, DC (Stainless steel)
200V AC, DC (Copper alloy)
- Temperature range: -20°C to +200°C (including temperature rise in applying electrical current) (Stainless steel)
-20°C to +150°C (including temperature rise in applying electrical current) (Copper alloy)
- Contact resistance: Initial value/100m Ω max.
After environmental testing/150m Ω max.
- Applicable wire: AWG #22 to #18
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	Applicable wire	AWG#		
SIG-21-S2.0	0.3~0.89	22~18	3.5~5.5	4,000
SIG-21-S2.3	0.3~0.89	22~18	3.5~5.5	4,000

Material			
Stainless steel			

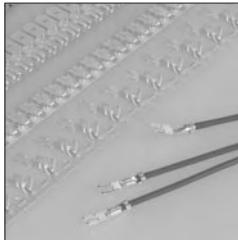
RoHS compliance

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SIG-21T-M2.0T	0.3~0.89	22~18	1.2~3.5	4,000

Material and Finish			
Copper alloy, tin-plated (reflow treatment)			

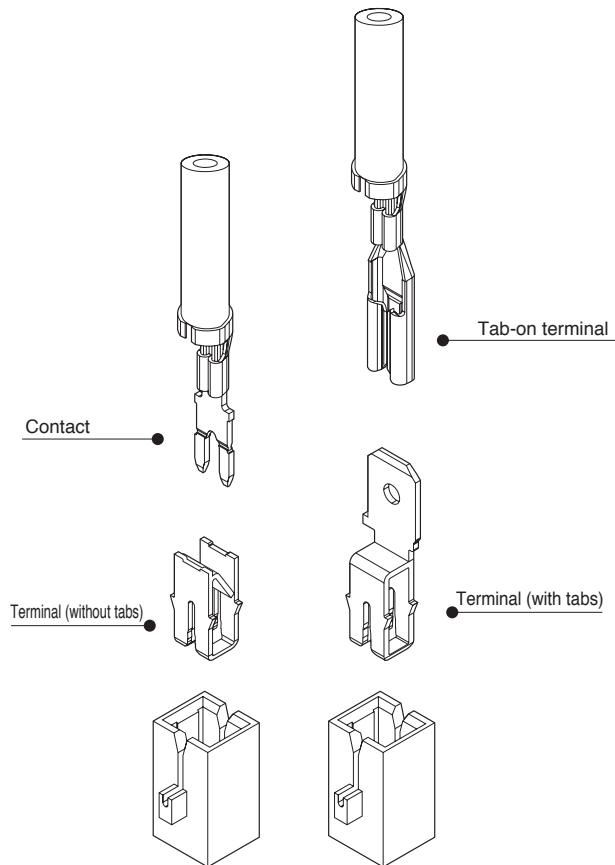
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIG-21-S2.0	AP-K2N	MK-L-SPS	MK/SIG-21-S20	APLMK SIG21-S20
		—	—	—
SIG-21-S2.3	AP-K2N	MK-L-SPS	MK/SIG-21-S20	APLMK SIG21-S20
		—	—	—
SIG-21T-M2.0T	AP-K2N	MK-L-SPS	MK/SIG-21-20T	APLMK SIG21-20T
		—	—	—



MG CONNECTOR

MG connector typical connection method and kind



MG connector is designed for connecting copper magnetic wire and used in various insulation coating.

Insertion of various magnetic wires is easy and efficient, and MG connector provides excellent electrical connection.

- **No coating removing treatment in advance**
- **Stable connection**
- **Reliable electrical performance**

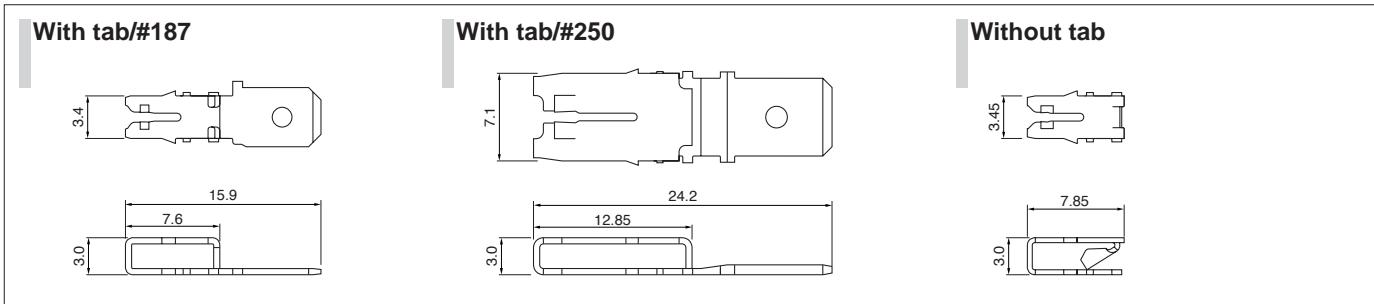
* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

MG CONNECTOR

Terminal



Type	Model No.	Applicable wire (Reference)			Q'ty / reel
		Tin-plated	Conductor O.D. (mm)	AWG #	
With tabs	#187...for 0.5mm thick tabs	MGT-10T-187	0.36~0.57	27~23	10,000
		MGT-15T-187	0.64~0.81	22~20	10,000
	#250...for 0.8mm thick tabs	MGT-24T-187	0.91~1.29	19~16	10,000
Without tabs	—	MGT-24T-250	0.91~1.29	19~16	5,000
	—	MGT-6TN	0.25~0.36	30~27	10,000
	—	MGT-10TN	0.36~0.57	27~23	10,000
	—	MGT-15TN	0.64~0.81	22~20	10,000
	—	MGT-24TN	0.91~1.15	19~17	10,000

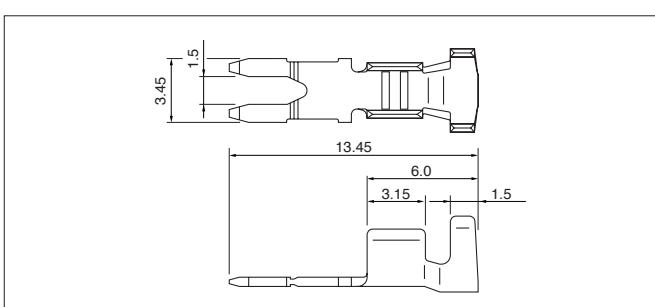
Material and Finish

Copper alloy, copper-undercoated, tin-plated

RoHS compliance MGT-()T-187 displays (SN) on a label.

Note: The applicable wire size above serves as a basic guideline. Before use, performance of this connector must be tested with the wire and housing that is to be used.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SMG-21T	0.33~0.83	22~18	1.5~2.9	6,000

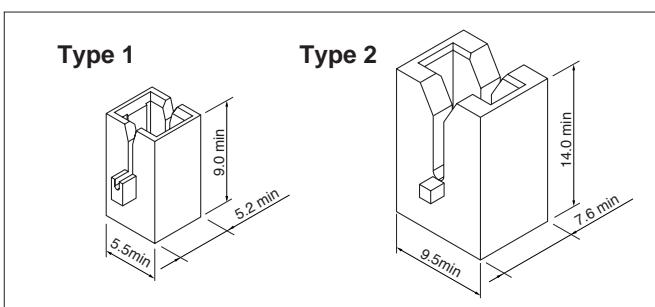
Material and Finish

Copper alloy, copper-undercoated, tin-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SMG-21T	AP-K2N	MKS-L	MK/SMG-21	APLMK SMG21
			MK/SMG-21-B	APLMK SMG21-B

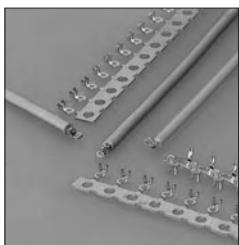
Recommended housing



Name	Applicable terminal		Material
	MGT-10T-187	MGT-15T-187	
Type 1	MGT-24T-187		Glass filled engineering plastics
	MGT-6TN		
	MGT-10TN		
	MGT-15TN		
	MGT-24TN		
	MGT-24T-250		

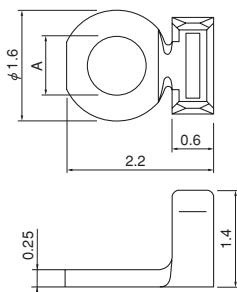
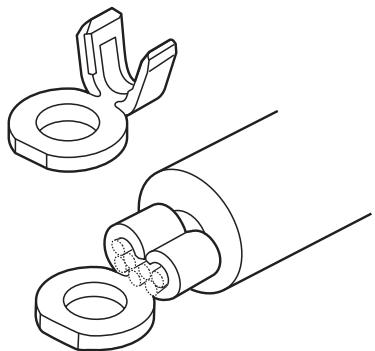
RoHS compliance

Note: Contact JST for details.

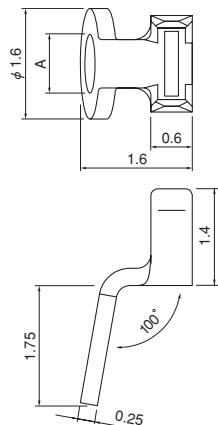
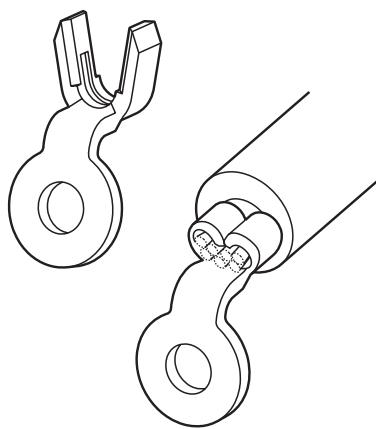


LCD BACK-LIGHT TERMINAL

Straight type



Bent type



- Provides soldering connection between the Dumet wire and lead wire of the LCD Back-light CCFT.
- Improves quality and shortens lead-time by crimping both ends and there is no need for the rounding process of the lead wire.
- Also applicable to other connections between the pin and lead wire of the Solenoid or Coil inside small equipment such as Digital Cameras.
- Post plating feature provides tin/lead plating inside the ring and ensures reliable solder ability.
- Five types are available for different sizes of Dumet wire.

	Straight type	Dimension A	Bent type	Dimension A		
Model No.	SRI-00T-0.5	φ 0.5□	SRI-00T-0.5L	φ 0.5□		
	SRI-00T-0.6	φ 0.6□	SRI-00T-0.6L	φ 0.6□		
	SRI-00T-0.7	φ 0.7□	SRI-00T-0.7L	φ 0.7□		
	SRI-00T-0.9	φ 0.85□	SRI-00T-0.9L	φ 0.85□		
	SRI-00T-1.0	φ 0.95	SRI-00T-1.0L	φ 0.95		
Material□ and Finish	Copper alloy, nickel-undercoated, tin/copper alloy-plated					
Q'ty / reel	30,000		16,000			
Applicable□ wire	AWG#28~#24 (0.08mm ² ~0.22mm ²) □					
Crimping□ tool	Crimping machine/ AP-K2ND Applicator/ MKS-L□ Dies/ SRI-00 (Straight type), SRI-00-L (Bent type)□ Crimp applicator with dies/ APLMK SRI-00, APLMK SRI-00-L					

RoHS compliance This product displays (LF) on a label.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.