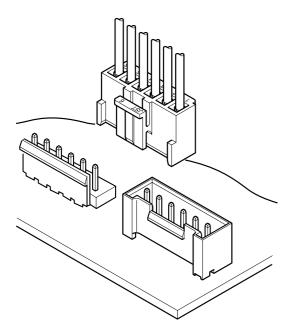


H CONNECTOR

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

Specifications -

• Current rating: 10 A AC, DC (AWG #16)

· Voltage rating: 250 V AC, DC

• Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/ 10 m Ω max.

After environmental tests/ 20 m Ω max.

• Insulation resistance: 1,000 M Ω min. • Withstanding voltage: 1,500 VAC/minute • Applicable wire: AWG #22 to #16 • Applicable PC board thickness: 1.6 mm

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.

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

Standards-

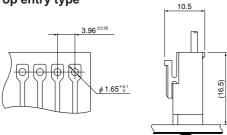
Recognized E60389

Certified LR20812

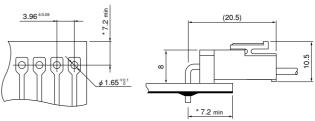
△ R75122

PC board layout and Assembly layout

Locking header Top entry type

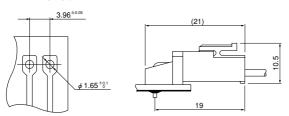


Locking header Side entry type

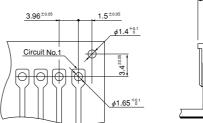


*11.0 max. when used with the VR connector receptacle.

Locking header Side entry type with PCB stabilizer



Shrouded header

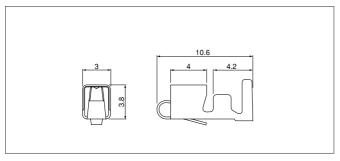




- Note: 1. The above figure is the figure viewed from soldering side.
 - 2. Tolerances are non-cumulative: ±0.05 mm for all centers.
 - 3. Please consider the pattern layout design in case of applying the large current.
 - 4. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

VH CONNECTOR

Contact



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

Note: *Strip-crimp applicator

Model No.	Applical	ble wire	Insulation O.D.	Olty/rool
woder No.	mm²	AWG#	(mm)	Q'ty/reel
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

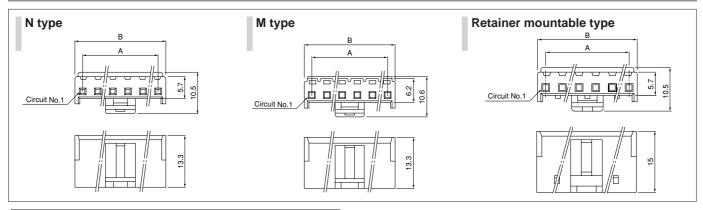
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2 mm.

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

Housing



		Model No.	Dimensio	Q'ty/							
Circuits	N type	M type	Retaine mountable type	Α	В	bag					
2	VHR-2N	VHR-2M	VHRR-2N	3.96	7.86	1,000					
3	VHR-3N	VHR-3M	VHRR-3N	7.92	11.82	(*)					
4	VHR-4N	VHR-4M	_	11.88	15.78	1,000					
5	VHR-5N	VHR-5M	VHRR-5N	15.84	19.74	(*)					
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	VHR-11N		_	39.60	43.50	500					
	Material										

PA 6, UL94V-0, natural (white)

RoHS compliance

- Note: 1. Models identified as VHR-() M incorporate measures to prevent electric shock and are thus safer in regard to high voltages.
 - The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.
 - 3. Contact JST for Glow Wire compliant connectors.

(*) N / M type ; 1,000 Retainer mountable type ; 500

<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 D...orange Y...yellow PK...pink H...gray

Retainer

2 circuits: 2.6 A 3 to 9 circuits: 4.2

Circuits	Model No.	Α	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

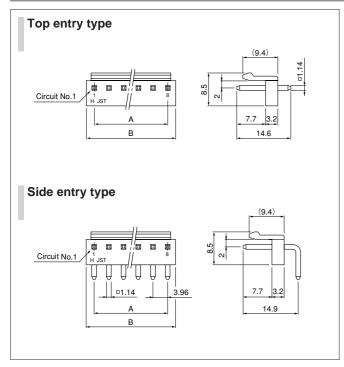
Material

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

RoHS compliance

VH CONNECTOR

Locking header



	Mode	el No.	Dimensio	ons (mm)	Q'ty/box		
Circuits	Top entry type Side entry		Α	В	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: 1. Headers with a reduced number of posts are also available.

Contact JST for details.

2. Contact JST for Glow Wire compliant connectors.

<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

Top entry type of PBT	
(1.95) B Circuit No.1 A	(9.4) (9.4) (9.4) (1.95)
Side entry type with PCB	stabilizer
Circuit No.1	(9.4) 4.5 7.7 13.4

	Mode	el No.	Dimensio	ons (mm)	Q'ty/box	
Circuits	Top entry type of PBT	Side entry type with PCB stabilizer	vith 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 (white)
Side entry type with PCB stabilizer: 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.

<Top entry type of PBT>

ex. **B2P-VH-B-**<u>oo</u>

(blank)...natural (white)

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

<Side entry type with PCB stabilizer>

ex. S2P-VH-oo

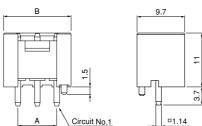
(blank)...natural (white)

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

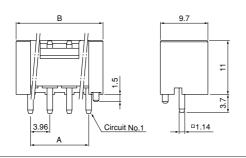
VH CONNECTOR

Shrouded header





<4 to 10 circuits>



Circuits	Model No.	Dimensio	Q'ty/	
	Model No.	Α	В	box
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-<u>oo</u>

(blank)...natural (white)

C...black R...red E...blue M...green O...orange Y...yellow

PK...pink H...gray

Post-omitted Header

1) When giving the polarity to the product by removing the post (N-1)th circuit

However, since the product that the 2nd post of 3-circuit connector is omitted doesn't have polarity, select 3).

B *1 P *2 -VH

*1; No. of circuits (No. of posts)

*2; Circuit No. of used original header

e.g.)

Circuit No.	1	2	3	4	5	6	7
Circuit (post)	0	0	0	0	0	×	0
Model No.	B6P7	7-VH					

○; With circuit (post) ×; Without circuit (post)

2) When giving the polarity to the product by removing the post in 2nd circuit

However, since the product that the 2nd post of 3-circuit connector is omitted doesn't have polarity, select 3).

B *1 P *2 -VH-L

e.g.)

Circuit No.	1	2	3	4	5	6	7
Circuit (post)	0	×	0	0	0	0	0
Model No.	B6P	7-VH-L				-	

3) When the pitch is set again

 When setting two times of pitch with omitting every other one post However, posts shall be inserted in No.1-circuit and No. N-circuit.

B*1 P*2-VH

e.a.

Circuit No.	1	2	3	4	5	6	7
Circuit (post)	0	×	0	×	0	×	0
Model No.	B4P	7-VH					

When setting three times of pitch with omitting every other two posts However, posts shall be inserted in No.1-circuit and No. N-circuit.

B*1 P*2-VH

e.g.)

)	Circuit No.	1	2	3	4	5	6	7		
	Circuit (post)	0	×	×	0	×	×	0		
	Model No	B3P7-VH								

3. When setting four times of pitch with omitting every other three posts However, posts shall be inserted in No.1-circuit and No. N-circuit.

B*1 P*2-VH

e.g.

Circuit No.	1	2	3	4	5	6	7	8	9		
Circuit (post)	0	×	×	×	0	×	×	×	0		
Model No.	B3P9-VH										