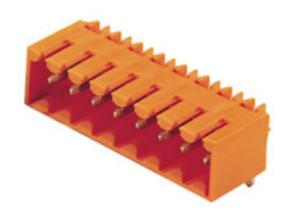


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Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

Туре	SL 3.50/02/90G 3.2SN OR BX
Order No.	<u>1605070000</u>
Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, No. of poles: 2, 90°, Solder pin length (I): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190085100
Qty.	100 pc(s).
Product data	IEC: 320 V / 17 A UL: 300 V / 10 A
Packaging	Вох



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Technical data

Dimensions and weights

System parameters

Product family	OMNIMATE Signal - series	Mounting onto the PCB	
	BL/SL 3.50		THT solder connection
Outgoing elbow	90°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	2
Solder pin length (I)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm
Plugging cycles	25	Can be coded	Yes
Number of solder pins per pole	1	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance	e (D)+ 0,1 mm	L1 in mm	3.5 mm
L1 in inches	0.138 inch	Insulation resistance	≥ 10 ⁸ Ω
Touch-safe protection acc. to DIN VD	E	Touch-safe protection acc. to DIN VDE	Safe from back-of-hand
0470	IP 10	57 106	touch
Volume resistance	6.00 mΩ		

Material data

Insulating material	PBT	Colour	Orange
Insulating material group	Illa	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	CuSn
Layer structure of solder connection	2-4 μm Ni / 5-8 μm Sn glossy	Layer structure of plug contact	2-4 undefined Ni / 5-8 undefined Sn glossy
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %

Rating data acc. to IEC 60664-1 / IEC 61984

Rated current, min. no. of poles (Ta = 20°C)	17 A	Rated current, max. no. of poles (Ta = 20°C)	12 A
Rated current, min. no. of poles (Ta = 40°C)	14.5 A	Rated current, max. no. of poles (Ta = 40° C)	10 A
Rated voltage for surge voltage class / pollution degree III/3	160 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated voltage for surge voltage class / pollution degree II/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 100 A		

Rated data acc. to CSA

Institute (CSA)	(SP:	Certificate No. (CSA)	
	•		154685-1318353
Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	10 A	Rated current (use group D)	10 A
Reference to approval values	Specifications are maximum values, details -		

see approval certificate.



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Technical data

Rated data acc. to UL 1059

Inatituta /LIP)		Cartificate No. (LIP)	
Institute (UR)	<i>511</i>	Certificate No. (UR)	
			E60693
Rated voltage (use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	10 A	Rated current (use group D)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Classifications			
ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02
Notes			
Notes	 Additional colours on reques 	t	
	Gold-plated contact surfaces	on request	

· Rated current related to rated cross-section & min. No. of poles.

P on drawing = pitch

• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

IPC conformity

The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

Approvals

Approvals



ROHS Conform

Downloads

EDA Layout Library (Mentor Graphics

Expedition, Mentor Graphics Pads,
Altium Designer)

CAD Library (P-CAD Format - ASCII)

CAD Library (P-CAD Format - Standard)

SL.zip

CAD Library (P-CAD Format - Standard)

3-D model



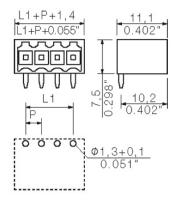
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Drawings





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Mating connector (fully pluggable)

BL 3.50/180



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Order No.	Version	GTIN (EAN)	Qty.	Product data	Packa
<u>1597360000</u>	PCB plug-in connector,	4008190435868	3 100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
0	female plug, 3.50 mm, N	lo.		UL: 300 V / 10 A / AWG 28 - AWG	14
	of poles: 2, 180°, Clamp	ing			
	yoke connection, Clamp	ng			
	range, rated connection,				
	max.: 1.5 mm², Box				
<u>1615670000</u>	PCB plug-in connector,	4008190058890	0 100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Вох
0	female plug, 3.50 mm, N	lo.		UL: 300 V / 10 A / AWG 28 - AWG	14
	of poles: 2, 180°, Clamp	ing			
	yoke connection, Clamp	ng			
	range, rated connection,				
	max.: 1.5 mm², Box				
	<u>1597360000</u> 00	1597360000 PCB plug-in connector, female plug, 3.50 mm, N of poles: 2, 180°, Clamp yoke connection, Clampi range, rated connection, max.: 1.5 mm², Box PCB plug-in connector, female plug, 3.50 mm, N of poles: 2, 180°, Clamp yoke connection, Clampi range, rated connection, Clampi range, rated connection, Clampi range, rated connection,	PCB plug-in connector, 4008190435868 female plug, 3.50 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box PCB plug-in connector, 4008190058896 female plug, 3.50 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, Clamping range, rated connection,	PCB plug-in connector, 4008190435868100 pc(s). female plug, 3.50 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box PCB plug-in connector, 4008190058890100 pc(s). female plug, 3.50 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, Clamping range, rated connection,	1597360000 PCB plug-in connector, 4008190435868100 pc(s). IEC: 320 V / 17 A / 0.2 - 1.5 mm² female plug, 3.50 mm, No. UL: 300 V / 10 A / AWG 28 - AWG of poles: 2, 180°, Clamping range, rated connection, max.: 1.5 mm², Box PCB plug-in connector, 4008190058890100 pc(s). IEC: 320 V / 17 A / 0.2 - 1.5 mm² female plug, 3.50 mm, No. UL: 300 V / 10 A / AWG 28 - AWG of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection,

BL 3.50/90



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL	<u>1638550000</u>	PCB plug-in connector,	400819027610	02 258 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/02/9	90	female plug, 3.50 mm, N	lo.		UL: 300 V / 8 A / AWG 28 - AWG 1	4
SN OR BX		of poles: 2, 90°, Clampin	ıg			
		yoke connection, Clamp	ing			
		range, rated connection,				
		max.: 1.5 mm², Box				
BL	<u>1638780000</u>	PCB plug-in connector,	400819027632	24258 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/02/9	90	female plug, 3.50 mm, N	lo.		UL: 300 V / 8 A / AWG 28 - AWG 1	4
SN BK BX		of poles: 2, 90°, Clampin	ıg			
		yoke connection, Clamp	ing			



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Mating connector (fully pluggable)

range, rated connection, max.: 1.5 mm², Box

BL 3.50/270



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

	•					
Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packagin
BL	<u>1639470000</u>	PCB plug-in connector,	400819027702	4258 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/02/	270	female plug, 3.50 mm, No	ı.		UL: 300 V / 8 A / AWG 28 - AWG 14	1
SN OR BX	(of poles: 2, 270°, Clampin	g			
		yoke connection, Clamping	g			
		range, rated connection,				
		max.: 1.5 mm², Box				
BL	<u>1639700000</u>	PCB plug-in connector,	400819027725	3 258 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/02/	270	female plug, 3.50 mm, No	ı.		UL: 300 V / 8 A / AWG 28 - AWG 14	1
SN BK BX		of poles: 2, 270°, Clampin	g			
		yoke connection, Clamping	g			
		range, rated connection,				
		max.: 1.5 mm², Box				

BLIDCB 3.5



Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packag	
BLIDCB	<u>1751380000</u>	PCB plug-in connector,	403224817420	01 10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ²	Box	
3.50/02/-	SN	female plug, 3.50 mm,	No.		UL: 300 V / 7 A / AWG 22 - AWG 20	0	
OR BX		of poles: 2, 90°/270°, IDC					
		terminal, Clamping rang	ge,				
		rated connection, max.:	0.5				
		mm², Box					
2014-05-2	ОТО РЫЛО (СВ О 3 .05/20 <i>)</i> 0/002/- SN BK BX	1770670000	PCB plug-in	4032248174	454 10 pc(s).	IEC:	
			connector, fema	le		250	
			plug, 3.50 mm,			V /	

Creation date February 25, 2016 11:43:23 AM CET



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Mating connector (fully pluggable)

No. of poles:	6
2, 90°/270°,	Α/
IDC terminal,	0.35
Clamping range,	-
rated connection,	0.5
max.: 0.5 mm²,	mm²
Box	UL:
	300
	V /
	7
	Α/
	AWG
	22
	-
	AWG
	20



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Mating connector (conditionally pluggable)

BLIDCB 3.5F



Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Delivery status Available until	Туре	Order No.	Version	GTIN (EAN)	Qty.
This article will 2016-07-08T00:00:00+02:00	BLIDCB 3.50/02/-F SN BK	1770740000	PCB plug-in	4032248174522	10
no longer be	BX		connector, female	e	pc(s)
available in the			plug, 3.50 mm,		
future.			No. of poles:		
			2, 90°/270°,		
			IDC terminal,		
			Clamping range,		
			rated connection,		
			max.: 0.5 mm ² ,		
			Box		
BLIDCB <u>1751450000</u>	PCB plug-in connector,	4032248174386	6 10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ²	Вох
3.50/02/-F	female plug, 3.50 mm, No.			UL: 300 V / 7 A / AWG 22 - AWG 20	
SN OR BX	of poles: 2, 90°/270°, IDC				
	terminal, Clamping range,				
	rated connection, max.: 0.5	i			
	mm², Box				

BL 3.50/180F



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL	<u>1606640000</u>	PCB plug-in connector,	40081901870	88 100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
3.50/02/1	180F	female plug, 3.50 mm, No).		UL: 300 V / 10 A / AWG 28 - AWG	14
SN OR BX	SN OR BX of poles: 2, 180°, CI		ng			
		yoke connection, Clamping				
	range, rated connection, max.: 1.5 mm², Box					



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Mating connector (conditionally pluggable)

BL <u>1615780000</u> 3.50/02/180F SN BK BX PCB plug-in connector, 4008190061272100 pc(s). female plug, 3.50 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box

IEC: 320 V / 17 A / 0.2 - 1.5 mm² B UL: 300 V / 10 A / AWG 28 - AWG 14

BL 3.50/90F



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packag
BL	<u>1639010000</u>	PCB plug-in connector,	40081902765	53 156 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/02/90F		female plug, 3.50 mm, N	0.		UL: 300 V / 8 A / AWG 28 - AWG 14	ļ
SN OR BX		of poles: 2, 90°, Clampin	g			
		yoke connection, Clampi	ng			
		range, rated connection,				
		max.: 1.5 mm², Box				
BL	1639240000	PCB plug-in connector,	400819027678	82 156 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/02/90F		female plug, 3.50 mm, N	o.		UL: 300 V / 8 A / AWG 28 - AWG 14	1
SN BK BX		of poles: 2, 90°, Clampin	g			
		yoke connection, Clampi	ng			
		range, rated connection,				
		max.: 1.5 mm ² , Box				

BL 3.50/180LH



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging	
BL	<u>1687880000</u>	PCB plug-in connector,	400819085343	33 100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box	
3.50/02/180LH		female plug, 3.50 mm, No.			UL: 300 V / 10 A / AWG 28 - AWG 14		
SN BK BX		of poles: 2, 180°, Clampin	g				
		yoke connection, Clamping	g				



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Mating connector (conditionally pluggable)

	range, rated connection,					
	max.: 1.5 mm², Box					
BL <u>1687650000</u>	PCB plug-in connector, 4008190853204100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² Box				
3.50/02/180LH	female plug, 3.50 mm, No.	UL: 300 V / 10 A / AWG 28 - AWG 14				
SN OR BX	of poles: 2, 180°, Clamping					
	yoke connection, Clamping					
	range, rated connection,					
	max.: 1.5 mm², Box					

BL 3.50/270F



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packag		
BL	<u>1639930000</u>	PCB plug-in connector,	40081902774	82 156 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box		
3.50/02/270F		female plug, 3.50 mm, N	0.		UL: 300 V / 8 A / AWG 28 - AWG 14	ı		
SN OR BX		of poles: 2, 270°, Clampi	of poles: 2, 270°, Clamping					
		yoke connection, Clampi	ng					
		range, rated connection,						
		max.: 1.5 mm², Box						
BL	<u>1640160000</u>	PCB plug-in connector,	40081902777	27 156 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box		
3.50/02/270F		female plug, 3.50 mm, N	0.		UL: 300 V / 8 A / AWG 28 - AWG 14	ı		
SN BK BX		of poles: 2, 270°, Clampi	ng					
		yoke connection, Clampi	ng					
		range, rated connection,						
		max.: 1.5 mm ² , Box						



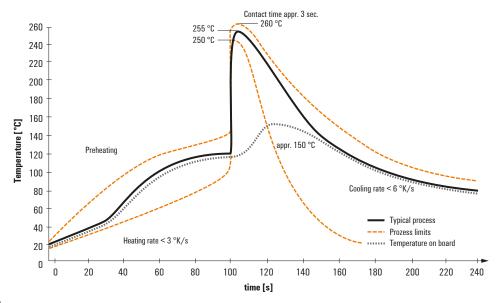
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

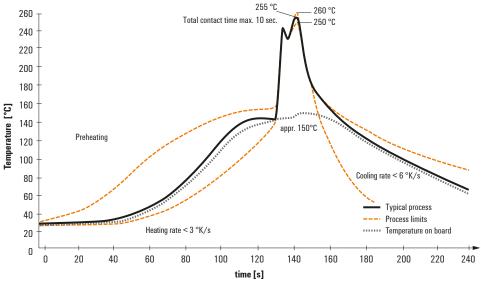
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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

Addresses worldwide

Let's connect.

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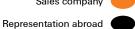
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