

Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

D-32758 Detmold Germany

www.weidmueller.com

Product image





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

General ordering data

Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 4, 90°, Solder pin length (I): 4.5 mm, tinned, black, Box
Order No.	<u>1615430000</u>
Туре	SL 3.50/04/90G4.5SN BK BX
GTIN (EAN)	4008190054496
Qty.	100 pc(s).
Product data	IEC: / 17 A UL: 300 V / 10 A
Packaging	Box

Creation date January 13, 2022 11:14:17 PM CET



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Technical data

Depth	11.1 mm	Depth (inches)	0.437 inch
Height	12 mm	Height (inches)	0.472 inch
Height of lowest version	7.5 mm	Width	15.4 mm
Width (inches)	0.606 inch	Net weight	1.16 g

System specifications

Product family	OMNIMATE Signal - series	Type of connection	
	BL/SL 3.50		Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Outgoing elbow	90°
Number of poles	4	Number of solder pins per pole	1
Solder pin length (I)	4.5 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
Solder eyelet hole diameter (D)	1.4 mm	Solder eyelet hole diameter tolerance ([0)+ 0,1 mm
L1 in mm	10.5 mm	L1 in inches	0.413 inch
Number of rows	1	Pin series quantity	1
Touch-safe protection acc. to DIN VDE	Safe from back-of-hand	Touch-safe protection acc. to DIN VDE	
57 106	touch	0470	IP 10
Volume resistance	6.00 mΩ	Can be coded	Yes
Plugging force/pole, max.	10 N	Pulling force/pole, max.	10 N

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact base material	CuSn	Contact material	CuSn
Contact surface		Layer structure of solder connection	24 µm Ni / 58 µm Sn
	tinned		glossy
Layer structure of plug contact	24 undefined Ni / 58	Storage temperature, min.	
	undefined Sn glossy		-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17 A
Rated current, max. number of poles		Rated current, min. number of poles	
(Tu=20°C)	12 A	(Tu=40°C)	14.5 A
Rated current, max. number of poles			
Tu=40°C)	10 A		

Rated data acc. to CSA

Institute (CSA)	SP:	Certificate No. (CSA)	
	•		12400-313
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data



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nstitute (UR)		Certificate No. (UR)	
			E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	
Rated current (Use group B / UL 1059)	10 A	Rated current (Use group D / UL 1059)	
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
	_		
Packaging	Box	VPE length	127 mm
/PE width	90 mm	VPE height	40 mm
Classifications			
	50002627	ETINA 7.0	50002627
ETIM 6.0 ETIM 8.0	EC002637 EC002637	ETIM 7.0 ECLASS 9.0	EC002637 27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 9.0 ECLASS 10.0	27-44-04-02
ECLASS 9.1 ECLASS 11.0	27-44-04-02		<i>८1⁻</i> 44 ⁻ 04 ⁻ 02
	27 10 02 01		
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PC conformity	standards and norms and comp	eveloped, manufactured and delivered according ly with the assured properties in the data sheet r Class 2". Further claims on the products can be e	esp. fulfill decorative properti
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Catalogue status 17.12.2021 / We reserve the right to make technical changes.

Drawings

Product image



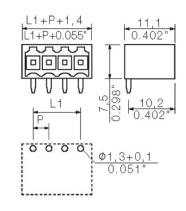


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Dimensional drawing



Accessories

Additional accessories





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No task is too small when creating the perfect solution. br />

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs ensure reliable pick-up from diagnostic sockets
- Cross-connectors ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements divide a large number of male connectors into several separate socket connector channels
- Locks and clips optional vibration-resistant clipon connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

General ordering data

Туре	BL/SL 3.50 VR BK BX	Version	Product data
Order No.	<u>1669300000</u>	PCB plug-in connector, Accessories, Latches, black, Number of poles:	
GTIN (EAN)	4008190428471	1	
Qty.	100 pc(s).		
Туре		· · ·	D
Type	BL/SL 3.50 VR OR BX	Version	Product data
Order No.	<u>1669310000</u>	Version PCB plug-in connector, Accessories, Latches, orange, Number of pole:	

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Туре	BL SL 3.5 KO SW	Version	Product data	Packaging
Order No.	<u>1610100000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4008190187637	of poles: 1		
Qty.	100 pc(s).			

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Accessories

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Туре	BL SL 3.5 KO OR	Version	Product data	Packaging
Order No.	<u>1693430000</u>	PCB plug-in connector, Accessories, Coding element, orange, Numbe	r	Box
GTIN (EAN)	4008190867447	of poles: 1		
Qty.	100 pc(s).			

LED Light guides



Effective: the link between LED and front panel.

Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.

The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.

The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- · Easy to maintain correct clearance and creepage distance
- · Can be partitioned for smaller pole numbers

The result: simplified manufacturing process, reduced costs and simplified design

General ordering data							
Туре	SL 3.5 FLA 4.0/1.75/8	Version	Product data	Packaging			
Order No.	<u>1597650000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box			
GTIN (EAN)	4008190027773	Number of poles: 1					
Qty.	50 pc(s).						
Туре	SL 3.5 FLA 2.3/1.75/8	Version	Product data	Packaging			
Order No.	<u>1597640000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box			
GTIN (EAN)	4008190011321	Number of poles: 1					
Qty.	25 pc(s).						
Туре	SL 3.5 FLA 1.5/1.75/8	Version	Product data	Packaging			
Order No.	<u>1597630000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box			
GTIN (EAN)	4008190148386	Number of poles: 1					
Qty.	50 pc(s).						
Туре	SL 3.5 FLA 1.5/8	Version	Product data	Packaging			
Order No.	<u>1597510000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box			
GTIN (EAN)	4008190127541	Number of poles: 1					
Qty.	50 pc(s).						
Туре	SL 3.5 FLA 2.3/8	Version	Product data	Packaging			
Order No.	<u>1597520000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box			
GTIN (EAN)	4008190120566	Number of poles: 1					
Qty.	50 pc(s).						



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Accessories

Туре	SL 3.5 FLA 4.0/8	Version	Product data	Packaging
Order No.	<u>1597530000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190075699	Number of poles: 1		
Qty.	50 pc(s).			

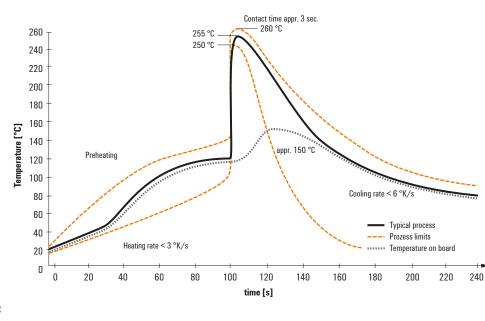
Wave Solder Profile

Recommended wave solderding profiles

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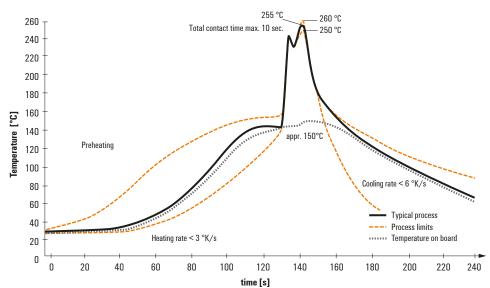
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com



Double Wave:

Single 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.

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 15602-04-08-21
 BA311TU
 BA411SU
 MV-152
 MV-252-D
 MV-253/NCNOC
 MV-255
 MV-462
 MV-493
 MVE-252
 MVE-253

 MVE-273
 MVEB-153
 1700096
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 1712417
 1713020
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 1745195
 1760594
 1776118-2
 1790852
 1-796689-8
 1-796692-6

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 CB2-12
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 29.116
 30.103

 30.106
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