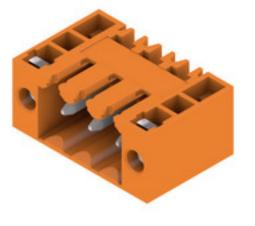


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D-32758 Detmold Germany

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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, Flange, THT solder connection, 3.50 mm, Number of poles: 3, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1607050000</u>
Туре	SL 3.50/03/90F 3.2SN OR BX
GTIN (EAN)	4008190055257
Qty.	100 pc(s).
Product data	IEC: / 17 A
	UL: 300 V / 10 A
Packaging	Box

Creation date January 13, 2022 11:04:51 AM CET



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Technical data

Depth	11.1 mm	Depth (inches)	0.437 inch
Height	10.7 mm	Height (inches)	0.421 inch
Height of lowest version	7.5 mm	Width	17.5 mm
Width (inches)	0.689 inch	Net weight	1.41 g

System specifications

Product family	OMNIMATE Signal - series BL/SL	. 3.50			
Type of connection	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	3				
Number of solder pins per pole	1				
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				
Solder eyelet hole diameter (D)	1.4 mm				
Solder eyelet hole diameter tolerance (D	0)+ 0,1 mm				
L1 in mm	7 mm				
L1 in inches	0.276 inch				
Number of rows	1				
Pin series quantity	1				
Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch				
Touch-safe protection acc. to DIN VDE 0470	IP 10				
Volume resistance	6.00 mΩ				
Can be coded	Yes				
Plugging force/pole, max.	10 N				
Pulling force/pole, max.	10 N				
Tightening torque	Torque type		Mounting screw, PCB		
	Usage information		Tightening torque	min.	0.1 Nm
				max.	0.15 Nm
			Recommended screw	Part	PTSC KA
				number	<u>2.2X4.5</u>
					<u>WN1412</u>

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	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		

Technical data

SL 3.50/03/90F 3.2SN OR BX



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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 (Tu=20°C)	12 A	Rated current, min. number of poles (Tu=40°C)	14.5 A
Rated current, max. number of poles (Tu=40°C)	10 A		
Rated data acc. to CSA			
Institute (CSA)	€₽ ⁻	Certificate No. (CSA)	154695 1010050
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	154685-1318353 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.		
Rated data acc. to UL 1059			
Institute (UR)	R	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			
.	_		407
Packaging VPE width	Box 90 mm	VPE length VPE height	127 mm 40 mm
VPE width	90 mm	VPE neight	40 mm
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01		

Technical data

Important note



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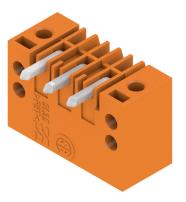
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Drawings

Product image



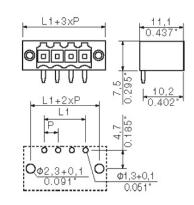


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Dimensional drawing





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	BL/SL 3.50 VR OR BX	Version	Product data
Order No.	<u>1669310000</u>	PCB plug-in connector, Accessories, Latches, orange, Number of pole	s:
GTIN (EAN)	4008190428488	1	
Qty.	100 pc(s).		
Туре	PTSC KA 2.2X4.5 WN1412	Version	Product data
Order No.	<u>1610740000</u>	PCB plug-in connector, Accessories, Mounting screw, Number of	
GTIN (EAN)	4008190039523	poles: 1	
Qty.	100 pc(s).		



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Accessories

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).			
Туре	BL SL 3.5 KO OR	Version	Product data	Packaging
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BL 3L 3.5 KO ON	Version		гаскаушу
Order No.	<u>1693430000</u>	PCB plug-in connector, Accessories, Coding element, orange, Numbe		Box

Accessories

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).			
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).			



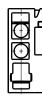


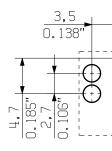
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Dimensions without tolerances are no check dimensions





For the mounting of PCBs, it should be noted t rated data given in the catalogue relates only t connection elements. The neccessary creepage clearance paths must be observed in connectio the respective applicant in accordance to VDE The current-carrying capacity and pitch toleran be determined according to DIN IEC 326 part 3

Weidmueller connectors are tested to the DIN v standard, and are valid for its field of applicati Provided that the connectors are used to the in purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

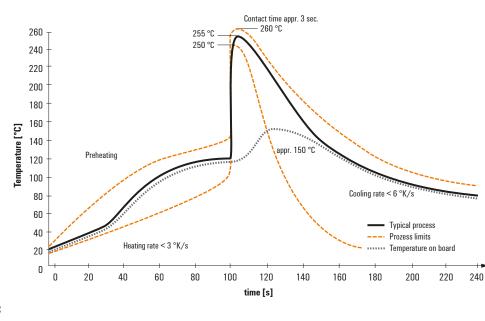
Wave Solder Profile

Recommended wave solderding profiles

Weidmüller 🟵

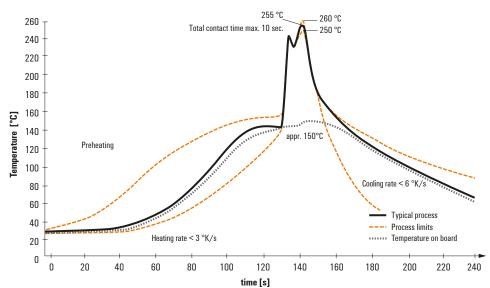
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Double Wave:

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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ELM023100
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MV-152
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MV-253/NCNOC
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MV-462
MV-493
MVE

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