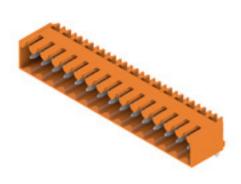


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Klingenbergstraße 26 D-32758 Detmold Germany

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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, closed side, THT solder connection, 3.50 mm, Number of poles: 15, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1605200000</u>
Туре	SL 3.50/15/90G 3.2SN OR BX
GTIN (EAN)	4008190120665
Qty.	50 pc(s).
Product data	IEC: / 17 A
	UL: 300 V / 10 A
Packaging	Вох

Creation date January 13, 2022 5:18:03 AM CET



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Technical data

Dimensions and weights

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	53.9 mm
Width (inches)	2.122 inch	Net weight	4.4 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	15	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)+ 0,1 mm	
L1 in mm	49 mm	L1 in inches	1.929 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

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		

Rated data acc. to IEC

tested acc. to standard		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(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

nstitute (CSA)	(F)	Certificate No. (CSA)	
			154685-1318353
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

Rated data acc. to UL 1059

Kated data acc. to UL 1059			
Institute (UR)	<i>577.</i>	Certificate No. (UR)	
			E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	10 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
Packaging	Box	VPE length	142 mm
VPE width	104 mm	VPE height	40 mm
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637 EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 9.0 ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-44-04-02	ECEA33 10.0	27-44-04-02
Important note			
IPC conformity	standards and norms and comp	eveloped, manufactured and delivered according ly with the assured properties in the data sheet Class 2". Further claims on the products can be o	resp. fulfill decorative properties
Notes	Additional colours on request	-	·
	Gold-plated contact surfaces	on request	
	Rated current related to rated	cross-section & min. No. of poles.	
	• P on drawing = pitch		
	•	omponent itself. Clearance and creepage distandith the relevant application standards.	ces to other components are to
	Long term storage of the production	duct with average temperature of 50 °C and ave	rage humidity 70%, 36 months
Approvals			
Approvals		. •	
	⊕ Ⅲ ₹	77	
ROHS	Conform		

UL File Number Search

E60693



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Technical data

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN
	MB SMT EN
	FL DRIVES DE
	MB DEVICE MANUF. EN
	FL BUILDING SAFETY EN
	<u>FL APPL LED LIGHTING EN</u>
	FL INDUSTR.CONTROLS EN
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	FL_BASE_STATION_EN
	<u>FL ELEVATOR EN</u>
	FL POWER SUPPLY EN
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN
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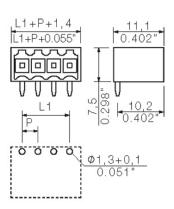
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Drawings

Product image



Dimensional drawing





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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
Order No.	<u>1693430000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number	r	Вох
GTIN (EAN)	4008190867447	of poles: 1		

Additional accessories



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	
Otv.	100 pc(s).		



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Accessories

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).		

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 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 4.0/1.75/8	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		



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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).			

Dimensions without tolerances are no check dimensions

For the mounting of PCBs, it should be no rated data given in the catalogue relates connection elements. The neccessary creclearance paths must be observed in conthe respective applicant in accordance to The current-carrying capacity and pitch to be determined according to DIN IEC 326 p

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



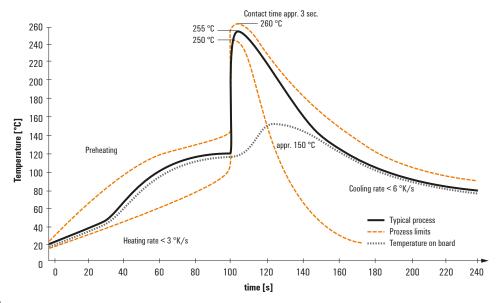
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

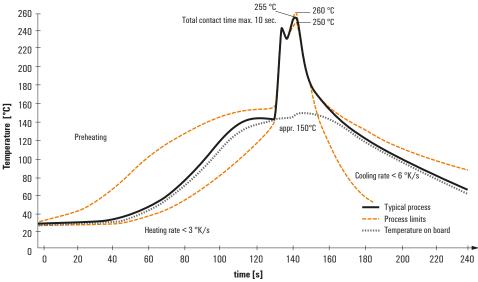
Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

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.

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15602-04-08-21 BA311TU BA411SU MV-152 MV-252-D MV-253/NCNOC MV-254-D MV-255 MV-462 MV-493 MVE-252 MVE-253

MVE-273 MVEB-153 1700096 1705142 1712417 1713020 1713088 1745195 1760594 1776118-2 1790852 1-796689-8 1-796692-6

1800001 1800114 1995279 20020314-C121B01LF CB2-12 KP03215000J0G KP04215000J0G S451 282802-2 29.007 29.116 30.103

30.106