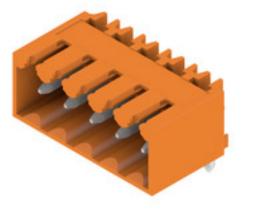


### Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

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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: 5, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1605100000</u>
Туре	SL 3.50/05/90G 3.2SN OR BX
GTIN (EAN)	4008190102609
Qty.	50 pc(s).
Product data	IEC: / 17 A
	UL: 300 V / 10 A
Packaging	Box

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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	18.9 mm
Width (inches)	0.744 inch	Net weight	1.398 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	5	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	14 mm	L1 in inches	0.551 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	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	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)		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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Institute (UR)		Certificate No. (UR)	
	<b>R</b>	Certificate No. (ON)	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			
Paakaging	Pov	\/PE longth	07 mm
Packaging VPE width	Box 91 mm	VPE length VPE height	97 mm 39 mm
	511111	VI L Height	55 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		
		eveloped, manufactured and delivered according	
	standards and norms and comp in accordance with IPC-A-610	bly with the assured properties in the data sheet Class 2". Further claims on the products can be e	resp. fulfill decorative propertie
IPC conformity	standards and norms and comp	bly with the assured properties in the data sheet Class 2". Further claims on the products can be e	resp. fulfill decorative propertie
Important note	standards and norms and comp in accordance with IPC-A-610	oly with the assured properties in the data sheet Class 2". Further claims on the products can be e t	resp. fulfill decorative propertie
IPC conformity	standards and norms and comp in accordance with IPC-A-610 " • Additional colours on request • Gold-plated contact surfaces	oly with the assured properties in the data sheet Class 2". Further claims on the products can be e t	resp. fulfill decorative propertie
IPC conformity	standards and norms and comp in accordance with IPC-A-610 " • Additional colours on request • Gold-plated contact surfaces	oly with the assured properties in the data sheet Class 2". Further claims on the products can be e t on request	resp. fulfill decorative propertie
IPC conformity	<ul> <li>standards and norms and comp in accordance with IPC-A-610 "u</li> <li>Additional colours on request</li> <li>Gold-plated contact surfaces</li> <li>Rated current related to rated</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the c</li> </ul>	oly with the assured properties in the data sheet Class 2". Further claims on the products can be e t on request	resp. fulfill decorative propertie evaluated on request.
IPC conformity	<ul> <li>standards and norms and comp in accordance with IPC-A-610 "//</li> <li>Additional colours on request</li> <li>Gold-plated contact surfaces</li> <li>Rated current related to rated</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the c be designed in accordance with</li> </ul>	oly with the assured properties in the data sheet of Class 2". Further claims on the products can be of t on request I cross-section & min. No. of poles. omponent itself. Clearance and creepage distance	resp. fulfill decorative propertie evaluated on request. ces to other components are to
IPC conformity Notes	<ul> <li>standards and norms and comp in accordance with IPC-A-610 "//</li> <li>Additional colours on request</li> <li>Gold-plated contact surfaces</li> <li>Rated current related to rated</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the c be designed in accordance with</li> </ul>	oly with the assured properties in the data sheet of Class 2". Further claims on the products can be of t on request d cross-section & min. No. of poles. omponent itself. Clearance and creepage distant with the relevant application standards.	resp. fulfill decorative propertie evaluated on request. ces to other components are to
IPC conformity Notes Approvals	<ul> <li>standards and norms and comp in accordance with IPC-A-610 "dial • Additional colours on request</li> <li>Gold-plated contact surfaces</li> <li>Rated current related to rated</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the c be designed in accordance w</li> <li>Long term storage of the product</li> </ul>	oly with the assured properties in the data sheet of Class 2". Further claims on the products can be of t on request d cross-section & min. No. of poles. omponent itself. Clearance and creepage distant with the relevant application standards. duct with average temperature of 50 °C and aver	resp. fulfill decorative propertie evaluated on request. ces to other components are t
IPC conformity Notes Approvals	<ul> <li>standards and norms and comp in accordance with IPC-A-610 "//</li> <li>Additional colours on request</li> <li>Gold-plated contact surfaces</li> <li>Rated current related to rated</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the c be designed in accordance with</li> </ul>	oly with the assured properties in the data sheet of Class 2". Further claims on the products can be of t on request d cross-section & min. No. of poles. omponent itself. Clearance and creepage distant with the relevant application standards. duct with average temperature of 50 °C and aver	resp. fulfill decorative properti evaluated on request. ces to other components are t
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# **Technical data**

**Downloads** 

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Bommoddo	
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
	FL APPL LED LIGHTING EN
	FL INDUSTR.CONTROLS EN
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	FL_BASE_STATION_EN
	FL ELEVATOR EN
	FL POWER SUPPLY EN
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN
	PO OMNIMATE EN

# Drawings

### **Product image**



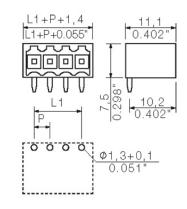


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### **Dimensional drawing**



### Creation date January 13, 2022 6:17:41 AM CET

Catalogue status 17.12.2021 / We reserve the right to make technical changes.

# Accessories

### **LED Light guides**

# 



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### 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 4.0/8	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).			
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).			



**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 OR BX	Version	Product data
Order No.	<u>1669310000</u>	PCB plug-in connector, Accessories, Latches, orange, Number of po	les:
GTIN (EAN)	4008190428488	1	
Qty.	100 pc(s).		
Туре	BL/SL 3.50 VR BK BX	Version	Product data
Type Order No.	BL/SL 3.50 VR BK BX 1669300000	Version PCB plug-in connector, Accessories, Latches, black, 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

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).			

Dimensions without tolerances are no check dimensions

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For the mounting of PCBs, it should be nor rated data given in the catalogue relates connection elements. The neccessary creclearance paths must be observed in comthe 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.

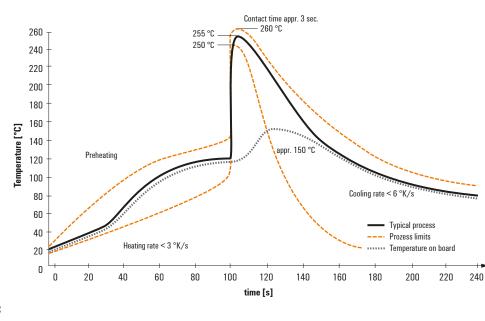
# Wave Solder Profile

### **Recommended wave solderding profiles**

# Weidmüller 🟵

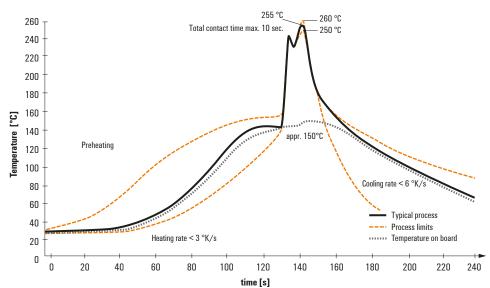
### Weidmüller Interface GmbH & Co. KG

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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 MHE-163
 MI-272
 880507
 MPT-275

 15602-04-08-21
 ELM023100
 BA311TU
 BA411SU
 MV-152
 MV-252-D
 MV-253/NCNOC
 MV-255
 MV-462
 MV-493
 MVE 

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 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
 I
 1095279
 20020314-C121B01LF
 CB2-12
 KP03215000J0G
 KP04215000J0G
 S451
 282802-2
 29.007
 29.116