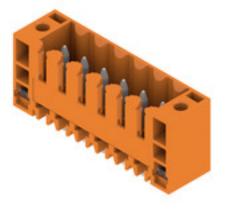


Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

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, Flange, THT solder connection, 3.50 mm, Number of poles: 6, 180°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1607540000</u>
Туре	SL 3.50/06/180F 3.2SN OR BX
GTIN (EAN)	4008190177140
Qty.	50 pc(s).
Product data	IEC: 320 V / 17 A
	UL: 300 V / 10 A
Packaging	Box

Creation date January 13, 2022 2:14:47 AM CET



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Technical data

Depth	7.5 mm	Depth (inches)	0.295 inch
Height	14.3 mm	Height (inches)	0.563 inch
Height of lowest version	11.1 mm	Width	28 mm
Width (inches)	1.102 inch	Net weight	1.99 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	180°				
Number of poles	6				
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 (0)+ 0,1 mm				
L1 in mm	17.5 mm				
L1 in inches	0.689 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	≤5 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 material	CuSn	Contact surface	tinned
Layer structure of solder connection	57 µm Sn glossy	Layer structure of plug contact	57 undefined Sn glossy
Storage temperature, min.	-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



Weidmüller Interface GmbH & Co. KG

154685-1318353

300 V

10 A

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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		Rated voltage for surge voltage class /	
(Tu=40°C)	10 A	pollution degree II/2	320 V
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
pollution degree III/2	160 V	pollution degree III/3	160 V
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage	
class/ pollution degree II/2	2.5 kV	class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage		Short-time withstand current resistance	
class/ contamination degree III/3	2.5 kV		3 x 1s with 100 A

Rated data acc. to CSA

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

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)

Rated current (Use group B / UL 1059)

Reference to approval values

Institute (UR)



Specifications are maximum values, details see approval certificate.

300 V

10 A

Certificate No. (UR)

	E60693
Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group D / UL 1059)	10 A

Packing

Packaging	Box	VPE length	125 mm
VPE width	110 mm	VPE height	31 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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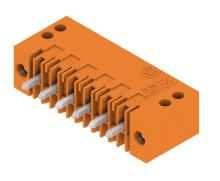
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IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative propertie in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
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
	 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.
	 For additional mechanical support for male connectors with screw flange (F), we recommend an additiona cable gland with fastening screws (sheet metal screw ISO 1481-ST 2.2x4.5 C or ISO 7049-ST 2.2x4.5 C – see Accessories). Cable gland only permitted before soldering.
	• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months
Approvals	
A 1	
Approvals	
ROHS	Conform
UL File Number Search	E60693
Downloads	
Approval/Certificate/Documen	t of
Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	<u>FL DRIVES EN</u>
	MB DEVICE MANUF. EN
	<u>FL DRIVES DE</u> FL BUILDING SAFETY EN
	FL APPL LED LIGHTING EN
	FL INDUSTR.CONTROLS EN
	FL MACHINE SAFETY EN
	FL HEATING ELECTR EN
	FL APPL INVERTER EN
	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



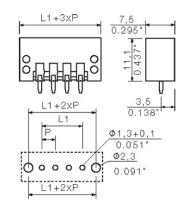


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Dimensional drawing



Creation date January 13, 2022 2:14:47 AM CET

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

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	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).		
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 pol	es:
GTIN (EAN)	4008190428488	1	
Qty.	100 pc(s).		
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).		



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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

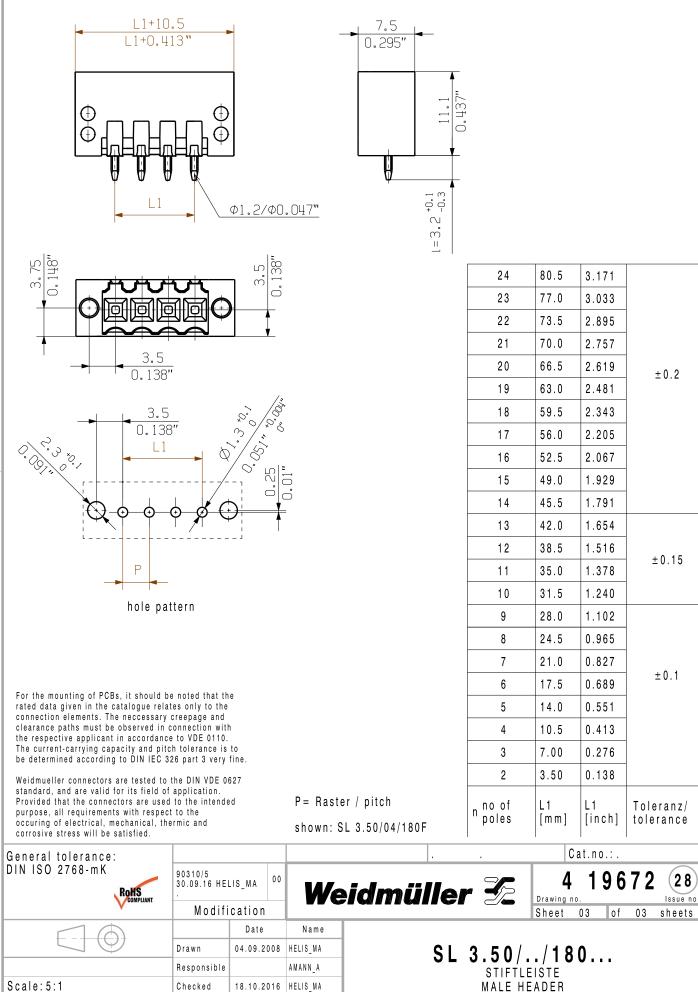
Туре	BL SL 3.5 KO SW	Version	Product data	Packaging			
Order No.	<u>1610100000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box			
GTIN (EAN)	4008190187637	of poles: 1					
Qty.	100 pc(s).						
-							
Туре	BL SL 3.5 KO OR	Version	Product data	Packaging			
Type Order No.	BL SL 3.5 KO OR <u>1693430000</u>	Version PCB plug-in connector, Accessories, Coding element, orange, Numbe		Packaging Box			



The English version is binding

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Approved

Product file: SL 3.50

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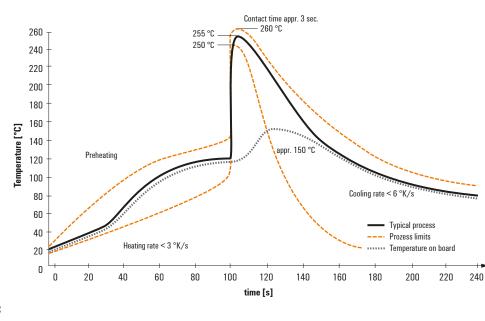
Wave Solder Profile

Recommended wave solderding profiles

Weidmüller 🟵

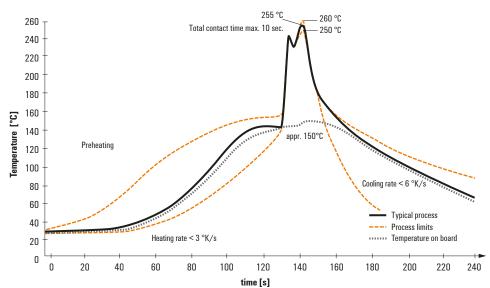
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Double Wave:

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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 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

 252
 MVE-253
 MVE-273
 MVEB-153
 1700096
 1705142
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 29.007
 29.116

 30.103
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 1095279
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 KP04215000J0G
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 282802-2
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