

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image





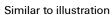












Straight, double-row pin header available in closed-sided or flange version (open-sided pin headers on request). The male headers with a pin length of 3.5mm are designed for wave soldering and are packed in a box. They can be screwed on to the PCB. The male headers provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 12, 180°, Solder pin length (I): 3.5 mm, tinned, black, Box
Order No.	<u>1729620000</u>
Туре	S2L 3.50/12/180F 3.5SN BK BX
GTIN (EAN)	4032248041022
Qty.	66 pc(s).
Product data	IEC: 250 V / 10 A UL: 150 V / 10 A
Packaging	Box

Creation date January 13, 2022 3:49:31 PM CET



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Technical data

Dimensions and weights

Depth	10.5 mm	Depth (inches)	0.413 inch
Height	17.7 mm	Height (inches)	0.697 inch
Height of lowest version	14.2 mm	Width	28 mm
Width (inches)	1.102 inch	Net weight	3.27 g

System specifications

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Product family	OMNIMATE Signal - series B2L/S2	L 3.50 - 2-row			
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	12				
Number of solder pins per pole	1				
Solder pin length (I)	3.5 mm				
Solder pin dimensions	d = 1.0 mm, Octagonal				
Solder eyelet hole diameter (D)	1.3 mm				
Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm				
L1 in mm	17.5 mm				
L1 in inches	0.689 inch				
Number of rows	1				
Pin series quantity	2				
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				
Can be coded	Yes				
Plugging force/pole, max.	5 N				
Pulling force/pole, max.	4 N				
Tightening torque	Torque type	Torque type Mounting screw, PCB			
	Usage information	Tightening torq	ue	min.	0.1 Nm
				max.	0.15 Nm
		Recommended	screw	Part	PTSC KA
				number	2.2X4.5
					<u>WN1412</u>

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 material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	23 μm Ni / 57 μm 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		



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Technical data

Rated data acc. to IEC

tested acc. to standard		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	10 A
Rated current, max. number of poles		Rated current, min. number of poles	
(Tu=20°C)	10 A	(Tu=40°C)	9 A
Rated current, max. number of poles		Rated voltage for surge voltage class /	
(Tu=40°C)	8.5 A	pollution degree II/2	250 V
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
pollution degree III/2	125 V	pollution degree III/3	80 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	<u> </u>	Short-time withstand current resistance	
class/ contamination degree III/3	2.5 kV		3 x 1s with 77 A

Rated data acc. to CSA

Institute (CSA) Certificate No. (CSA)



200039-1488444 Rated current (Use group B / CSA) 5 A

Specifications are maximum values, details see approval certificate.

Rated data acc. to UL 1059

Rated voltage (Use group B / CSA)

Reference to approval values

Institute (UR) Certificate No. (UR)



Rated voltage (Use group B / UL 1059) Rated voltage (Use group C / UL 1059) 50 V Rated current (Use group B / UL 1059) Rated current (Use group C / UL 1059)

Reference to approval values Specifications are maximum values, details -

see approval certificate.

Packing

Packaging	Box	VPE length	341 mm
VPE width	133 mm	VPE height	21 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		



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Technical data

Important note

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 properties
	in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	Additional colours on request

- Additional colours on request
- · Gold-plated contact surfaces on request
- · Spacing between rows: see hole layout
- · Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.3+0.1 mm
- 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 additional
 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

Approvals



ROHS	Conform
UL File Number Search	E60693

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 DEVICE MANUF. EN
	FL DRIVES DE
	FL BUILDING SAFETY EN
	FL APPL LED LIGHTING EN
	FL INDUSTR.CONTROLS EN
	FL MACHINE SAFETY EN
	FL HEATING ELECTR EN
	<u>FL APPL_INVERTER EN</u>
	<u>FL_BASE_STATION_EN</u>
	FL ELEVATOR EN
	<u>FL POWER SUPPLY EN</u>
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN
	PO OMNIMATE EN



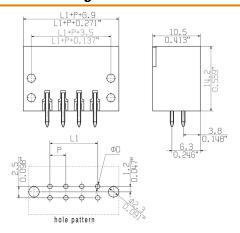
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Drawings

Dimensional drawing





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Accessories

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	PTSC KA 2.2X4.5 WN1412	Version	Product data
Order No.	<u>1610740000</u>	PCB plug-in connector, Accessories, Mounting screw, Number of	
GTIN (EAI	N) 4008190039523	poles: 1	
Qty.	100 pc(s).		

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	B2L/S2L 3.50 KO OR BX	Version	Product data	Packaging
Order No.	1849730000	PCB plug-in connector, Accessories, Coding element, orange, Number	r	Box
GTIN (EAN)	4032248378197	of poles: 1		
Otv.	100 pc(s).			



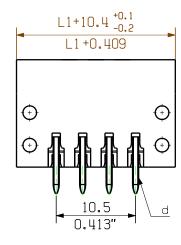
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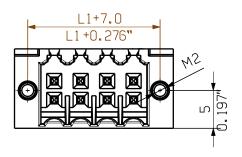
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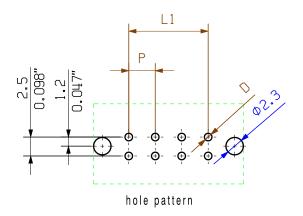
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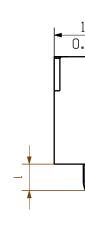
Accessories

Type	B2L/S2L 3.50 KO BK BX	Version	Product data	Packaging
Order No.	1849740000	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248378203	of poles: 1		
Qty.	100 pc(s).			









For the mounting of PCBs, it should be rated data given in the catalogue relate connection elements. The neccessary or clearance paths must be observed in cothe respective applicant in accordance the current-carrying capacity and pitch be determined according to DIN IEC 326

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



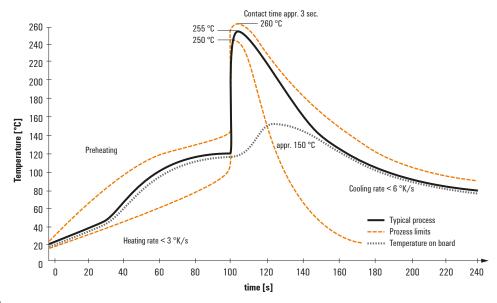
Recommended wave solderding profiles

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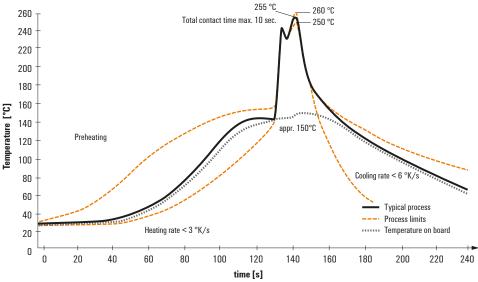
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Single Wave:



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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Other Similar products are found below:

MBE-1512 MBE-154 MBE-156 MBES-153 MBES-156 MH-2512 MHE-132 MHE-163 MI-254 (35) MI-272 880507 MPT-275

15602-04-08-21 ELM023100 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

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