

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image









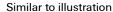












Straight, double-row pin header available in closed-sided or flange version (open-sided pin headers on request). The male headers with a pin length of 3.5mm are designed for wave soldering and are packed in a box. They can be screwed on to the PCB. The male headers provide space for labelling and can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

General ordering data

Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 18, 180°, Solder pin length (I): 3.5 mm, tinned, black, Box
Order No.	<u>1729010000</u>
Туре	S2L 3.50/18/180G 3.5SN BK BX
GTIN (EAN)	4032248040445
Qty.	54 pc(s).
Product data	IEC: 250 V / 10 A UL: 150 V / 10 A
Packaging	Вох

Creation date January 27, 2022 10:47:09 AM 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	32.9 mm
Width (inches)	1.295 inch	Net weight	2 g

System specifications

Product family	OMNIMATE Signal - series B2L/S2L 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	18	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	28 mm	L1 in inches	1.102 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		

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		

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		Short-time withstand current resistance	
class/ contamination degree III/3	2.5 kV		3 x 1s with 77 A



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Technical data

Rated data acc. to CSA

Institute (CSA)	€P:	Certificate No. (CSA)	
			200039-1488444
Rated voltage (Use group B / CSA)	150 V	Rated current (Use group B / CSA)	5 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059			
Institute (UR)	71 2	Certificate No. (UR)	
			E60693
Rated voltage (Use group B / UL 1059)	150 V	Rated voltage (Use group C / UL 1059)	50 V
Rated current (Use group B / UL 1059)	10 A	Rated current (Use group C / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
Packaging	Box	VPE length	55 mm
VPE width	70 mm	VPE height	110 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		

Important note	
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized
ire comornity	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
	Gold-plated contact surfaces on request
	Spacing between rows: see hole layout
	Rated current related to rated cross-section & min. No. of poles.
	• P on drawing = pitch

be designed in accordance with the relevant application standards.

• Rated data refer only to the component itself. Clearance and creepage distances to other components are to



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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	E60693

Downloads

Approval/Certificate/Documen	nt of
Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
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 FL APPL INVERTER EN FL APPL INVERTER EN FL APPL INVERTER EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN



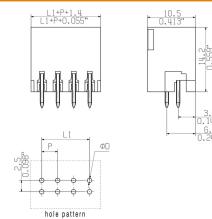
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Drawings

Dimensional drawing





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Accessories

Coding elements



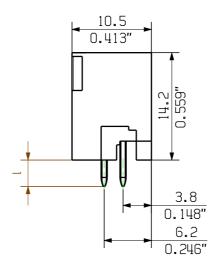
Only connects what is supposed to be connected: the right connection at the right place.

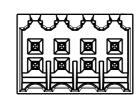
Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

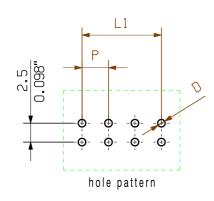
The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

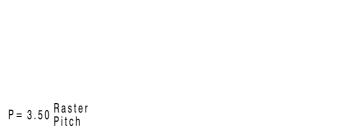
General ordering data

Туре	B2L/S2L 3.50 KO BK BX	Version	Product data	Packaging
Order No.	<u>1849740000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248378203	of poles: 1		
Qty.	100 pc(s).			
Туре	B2L/S2L 3.50 KO OR BX	Version	Product data	Packaging
Type Order No.	B2L/S2L 3.50 KO OR BX 1849730000	Version PCB plug-in connector, Accessories, Coding element, orange, Numbe		Packaging Box
	· ·			0 0









Approved

 $D = 0.051^{+0.1} \\ 0.051^{+0.1} \\ 0.1$

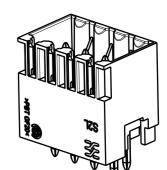
Supersedes:

d = 1mm oktogonal 0.039" octogonal

shown: S2L 3.50/08/180G

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmueller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application.
Provided that the connectors are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.



pin length	tolerance			
3,5	0,2			
3,3	-0,2			
2,6	0,2			
	-0.2			

Product file: S2L 3.50

-		
2 4	38.5	+/-0.15
22	35.0	,
20	31.5	
18	28.0	
16	24.5	
14	21.0	
12	17.5	+/-0.1
10	14.0	
8	10.5	
6	7.0	
4	3.5	
n Polzahl/ no of poles	L1	Toleranz/ tolerance L1

46

44

42

40 38

36

34

32

30

28 26 77.0

73.5

70.0 66.5

63.0

59.5

56.0

52.5

49.0 45.5

42.0

+/-0.2

7110

General tolerance:						·U,Z		Cat.n	0.:.		- '
DIN ISO 2768-mK	98746/5 29.11.17 HEL	LIS_MA 01	We	eidmül	ler	%	3 Drawing	2	56	07	18
COMPLIANT	Modifi	cation						05	of	06	sheets
		Date	Name								
	Drawn	28.11.2008	HELIS_MA		S 2	3 5	n /	I			

STIFTLEISTE Responsible AMANN A Scale: 5/1 Checked 04.12.2017 | HELIS_MA MALE HEADER LANG_T



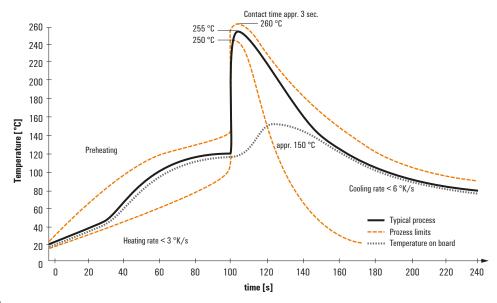
Recommended wave solderding profiles

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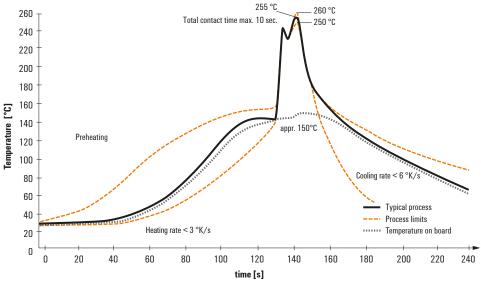
Klingenbergstraße 16 D-32758 Detmold Germany

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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.

Mouser Electronics

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<u>Weidmuller</u>: 1729010000