

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

















Similar to illustration

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: 6, 180°, Solder pin length (I): 3.5 mm, Gold- plated, orange, Box
Order No.	<u>1756320000</u>
Туре	S2L 3.50/06/180G 3.5AU OR BX
GTIN (EAN)	4032248042111
Qty.	156 pc(s).
Product data	IEC: 250 V / 10 A UL: 150 V / 10 A
Packaging	Box

Creation date March 25, 2021 3:21:00 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	Net weight	1.88 g
Width	11.9 mm	Width (inches)	0.469 inch

System specifications

roduct family OMNIMATE Signal - seri 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	6	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	7 mm	L1 in inches	0.276 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	orange
Colour chart (similar)	RAL 2000	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	Gold-plated
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

Rated data acc. to CSA

Institute (CSA)

Rated voltage (Use group B / CSA)

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Certificate No. (CSA)

200039-1488444

Rated current (Use group B / CSA)

5 A



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Technical data

Rated data acc. to UL 1059

Institute (UR)	<i>27</i> 7.	Certificate No. (UR)			
			E60693		
Rated voltage (Use group B / UL 1059)		Rated voltage (Use group C / UL 1059)			
Rated current (Use group B / UL 1059)		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	30 mm		
VPE width	135 mm	VPE height	350 mm		
Classifications					
ETIM 6.0	EC002637	ETIM 7.0	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	standards and norms and comp	veloped, manufactured and delivered according ly with the assured properties in the data sheet r Class 2". Further claims on the products can be e	esp. fulfill decorative propertie		
IPC conformity Notes	standards and norms and comp	y with the assured properties in the data sheet r Class 2". Further claims on the products can be e	esp. fulfill decorative propertie		
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ROHS

UL File Number Search

Conform

E60693



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Technical data

Downloads

Approval/Certificate/Document	t of	
Conformity	<u>Declaration of the Manufacturer</u>	
Engineering Data	<u>STEP</u>	
Engineering Data	WSCAD	



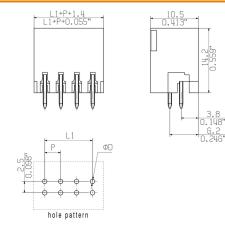
Weidmüller Interface GmbH & Co. KG

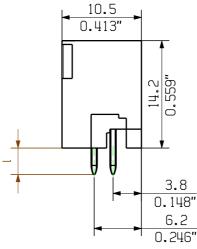
Klingenbergstraße 26 D-32758 Detmold Germany

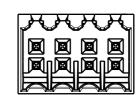
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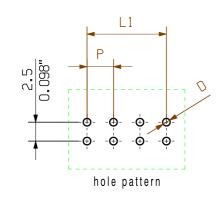
Drawings

Dimensional drawing











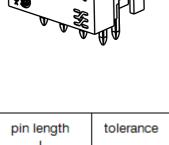
 $D = 0.051^{+0.1} \\ 0.051^{+0.1} \\ 0.151^{-0.1}$

Scale: 5/1

Supersedes:

 $d = \begin{array}{l} 1\,m\,m\,\,\,oktogonal \\ 0.039\,''\,\,octogonal \end{array}$

shown: S2L 3.50/08/180G



			16	24.5	
			14	21.0	
		_	12	17.5	+/-0.
gth	tolerance		10	14.0	
3			8	10.5	
	0,2		6	7.0	
,	-0,2		4	3.5	
	0,2		n Polzahl/	1.1	Tolera tolera
'	-0,2		no of poles	-'	L1

46

44

42

40 38

36

34

32

30

28 26

24

22

20

18

77.0

73.5

70.0 66.5

63.0

59.5

56.0

52.5

49.0 45.5

42.0 38.5

35.0

31.5

28.0

+/-0.2

		0
2.5	0,2	6
3,5	-0,2	4
2,6	0,2	p Polzahl/
2,0	-0,2	n Polzahl/ no of pole
		Cat.r

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.

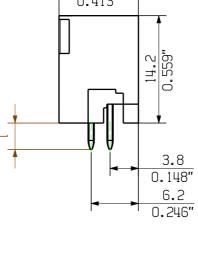
					2,0		-0,2	no of	poles	LI	L1
	General tolerance:							C	at.no.:		
	DIN ISO 2768-mK	98746/5 29.11.17 HE	LIS_MA 01	We	eidmül	اما				607	
1	ROMS	Modifi	cation		fi wii nwi	içi		Sheet		of 06	sheets
	\Box		Date	Name							
1		Drawn	28.11.2008	HELIS_MA		S	L 3.5	0//			
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04.12.2017 | HELIS_MA

LANG_T

Checked

Approved



+/-0.15

ranz/ ance

STIFTLEISTE MALE HEADER

7110 Product file: S2L 3.50



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.