

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: 40, 180°, Solder pin length (I): 3.5 mm, tinned, orange, Box	
Order No.	<u>2559230000</u>	
Туре	S2L 3.50/40/180G 3.5SN OR BX	
GTIN (EAN)	4050118669305	
Qty.	24 pc(s).	
Product data	IEC: 250 V / 10 A	
	UL: 150 V / 10 A	
Packaging	Вох	

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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	71.4 mm
Width (inches)	2.811 inch	Net weight	10.86 g

System specifications

Product family	OMNIMATE Signal - series	Type of connection	
	B2L/S2L 3.50 - 2-row		Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 "	Outgoing elbow	180°
Number of poles	40	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	O)+ 0,1 mm
L1 in mm	66.5 mm	L1 in inches	2.62 "
Number of rows	1	Pin series quantity	2
Touch-safe protection acc. to DIN VDE	finger-safe unplugged/	Touch-safe protection acc. to DIN VDE	IP20 plugged/ IP10 un-
57 106	back-of-hand-safe plugged	0470	plugged
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	Cu-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	
tootou uco. to standaru	IEC 60664-1, IEC 61984	(Tu=20°C)	10 A
Rated current, max. number of poles (Tu=20°C)	10 A	Rated current, min. number of poles (Tu=40°C)	9 A
Rated current, max. number of poles (Tu=40°C)	8.5 A	Rated voltage for surge voltage class / pollution degree II/2	250 V
Rated voltage for surge voltage class / pollution degree III/2	125 V	Rated voltage for surge voltage class / pollution degree III/3	80 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 77 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	150 V	Rated current (Use group B / CSA)	5 A

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059) 150 V	Rated current (Use group B / UL 1059) 10 A



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Technical data

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Packaging	Box	VPE length	348 mm		
VPE width	140 mm	VPE height	37 mm		
	140 111111	VI L Height	37 11111		
Classifications					
FTIN 4 0 0	5000007	ETIM 7.0	5000007		
ETIM 6.0	EC002637	ETIM 7.0	EC002637		
ETIM 8.0	EC002637	ETIM 9.0	EC002637		
ETIM 10.0	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	ECLASS 12.0	27-46-02-01		
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01		
ECLASS 15.0	27-46-02-01				
Environmental Product Co	mpliance				
RoHS Compliance Status	Compliant without exempti	on			
REACH SVHC	No SVHC above 0.1 wt%				
Important note					
IDO (''	0 () T				
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized stan- dards 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 variants on request				
	Gold-plated contact surfaces on request				
	Spacing between rows:	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				
		he component itself. Clearance and cr ce with the relevant application stand	reepage distances to other components are to ards.		
			nnectors without breaking capacity (COC). Du or disengaged when live or under load		
	 Long term storage of the months 	product with average temperature of	50 °C and maximum humidity 70%, 36		
Approvals					
ROHS	Conform				

Engineering Data

Catalogues

CAD data - STEP

Catalogues in PDF-format



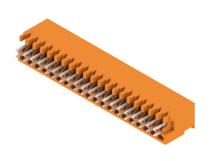
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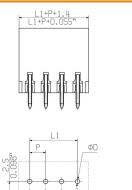
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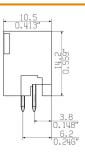
Drawings

Product image



Dimensional drawing







Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

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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.