



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Product image**















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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: 44, 180°, Solder pin length (I): 3.5 mm, tinned, black, Box
Order No.	<u>2559300000</u>
Туре	S2L 3.50/44/180G 3.5SN BK BX
GTIN (EAN)	4050118669183
Qty.	18 items
Product data	IEC: 250 V / 10 A UL: 150 V / 10 A
Packaging	Вох



# S2L 3.50/44/180G 3.5SN BK BX



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# Technical data

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ROHS	Conform		
Dimensions and weights	S		
Depth	10.5 mm	Depth (inches)	0.4134 inch
Height	17.7 mm	Height (inches)	0.6968 inch
Height of lowest version	14.2 mm	Width	78.4 mm
Width (inches)	3.0866 inch	Net weight	0.39 g

#### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## **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)	3.50 mm
Pitch in inches (P)	0.138 "	Outgoing elbow	180°
Number of poles	44	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	73.50 mm	L1 in inches	2.896 "
Number of rows	1	Pin series quantity	2
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plugged	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
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	Moisture Level (MSL)	
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	IEC 60664-1, IEC 61984	Rated current, min. number of poles (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

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Catalogue status / Drawings 2



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# **Technical data**

Rated data acc. to CSA			
Poted voltage (Lies group P. / CCA)	150 V	Poted ourrent (Llee group P. / CCA)	5 A
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
Packing			
Packaging	Box	VPE length	2.00 mm
VPE width	1.00 mm	VPE height	4.00 mm
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 product can be evaluated on request.		
Notes	<ul> <li>Additional variants on request</li> <li>Gold-plated contact surfaces on request</li> <li>Spacing between rows: see hole layout</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>Diameter of solder eyelet D = 1.3+0.1 mm</li> <li>P on drawing = pitch</li> <li>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.</li> <li>In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity</li> </ul>		

## Classifications

EC002637	ETIM 7.0	EC002637
EC002637	ETIM 9.0	EC002637
EC002637	ECLASS 9.0	27-44-04-02
27-44-04-02	ECLASS 10.0	27-44-04-02
27-46-02-01	ECLASS 12.0	27-46-02-01
27-46-02-01	ECLASS 14.0	27-46-02-01
27-46-02-01		
	EC002637 EC002637 27-44-04-02 27-46-02-01 27-46-02-01	EC002637 ETIM 9.0 EC002637 ECLASS 9.0 27-44-04-02 ECLASS 10.0 27-46-02-01 ECLASS 12.0 27-46-02-01 ECLASS 14.0

70%, 36 months

Catalogue status / Drawings 3





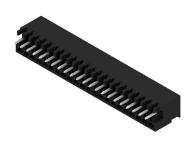
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# **Drawings**

## **Product image**



# **Dimensional drawing**

