

**S2L 3.50/04/90G 3.5SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

**Product image**

Angled, two-tier pin header available as closed-sided or with flange (open-sided pin headers on request). Pin headers with 3.5mm pins are designed for wave soldering and are packaged in a box. They can be screwed on to the PCB. The pin 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: 4, 90°, Solder pin length (l): 3.5 mm, tinned, black, Box
Order No.	<a href="#">2941910000</a>
Type	S2L 3.50/04/90G 3.5SN BK BX
GTIN (EAN)	4099986712218
Product data	IEC: 160 V / 10 A UL: 150 V / 10 A
Packaging	Box

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**Technical data****Approvals**

RoHS	Conform
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**Dimensions and weights**

Depth	14.2 mm	Depth (inches)	0.5591 inch
Height	14 mm	Height (inches)	0.5512 inch
Height of lowest version	10.5 mm	Width	8.4 mm
Width (inches)	0.3307 inch	Net weight	1.14 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	Mounting onto the PCB	THT solder connection
Pitch in mm (P)	3.50 mm	Pitch in inches (P)	0.138 "
Outgoing elbow	90°	Number of poles	4
Number of solder pins per pole	1	Solder pin length (l)	3.5 mm
Solder pin dimensions	d = 1.0 mm, Octagonal	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)± 0.1 mm		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 cycles	25
Plugging force/pole, max.	5 N	Pulling force/pole, max.	4 N

**Material data**

Insulating material	PBT GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
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	2...3 µm Ni / 5...7 µm Sn glossy
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, 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	160 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	1.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	1.5 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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**Technical data****Rated data acc. to CSA**

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

Packaging	Box	VPE length	352.00 mm
VPE width	139.00 mm	VPE height	26.00 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 products can be evaluated on request.
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## Notes

- Additional variants 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.
- 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
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

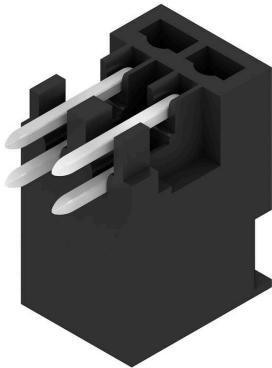
**Classifications**

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

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**Drawings****Product image****Dimensional drawing**