

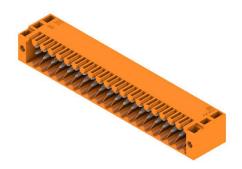


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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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, Flange, THT solder connection, 3.50 mm, Number of poles: 40, 90°, Solder pin length (I): 3.5 mm, tinned, orange, Box
Order No.	<u>2559420000</u>
Type	S2L 3.50/40/90F 3.5SN OR BX
GTIN (EAN)	4050118599190
Qty.	24 items
Product data	IEC: 250 V / 10 A UL: 150 V / 10 A
	UL: 150 V / 10 A
Packaging	Вох



S2L 3.50/40/90F 3.5SN OR BX



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Technical data

Approvals

ROHS	Conform		
Dimensions and weights	S		
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	77 mm
Width (inches)	3 0315 inch	Net weight	10.54 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	90°			
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 (D	D)+ 0,1 mm			
L1 in mm	66.50 mm			
L1 in inches	2.620 "			
Pin series quantity	2			
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plug	gged		
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			
Tightening torque	Torque type	Mounting screw, PCB		_
	Usage information	Tightening torque	min.	0.1 Nm
			max.	0.15 Nm
		Recommended screw	Part	PTSC KA
			number	2.2X4.5
				<u>WN1412</u>

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	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

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Technical data

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
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
Packing			
Packaging	Box	VPE length	338.00 mm
VPE width	130.00 mm	VPE height	27.00 mm
Important note			
IPC conformity	recognized standards and n	re developed, manufactured and delivered a orms and comply with the assured propert n accordance with IPC-A-610 "Class 2". Fu t.	ies in the data sheet resp.
Notes	Additional variants on recGold-plated contact surfaSpacing between rows: s	uest ces on request	

Classifications

	· · ·		
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		

· Rated current related to rated cross-section & min. No. of poles.

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.
For additional mechanical support for male connectors with screw flange (...F), we recommend an additional cable gland with fastening screws (sheet metal screw ISO 1481-ST 2.2x4.5 C or ISO 7049-ST 2.2x4.5 C – see Accessories). Cable gland only permitted before soldering.
In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or

Long term storage of the product with average temperature of 50 °C and maximum humidity

• Diameter of solder eyelet D = 1.3+0.1 mm

disengaged when live or under load

• P on drawing = pitch

70%, 36 months

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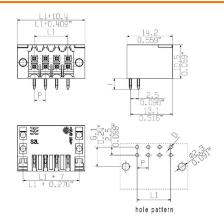
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Drawings

Product image



Dimensional drawing



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Accessories

LED Light guides



Effective: the link between LED and front panel. Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.

The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.

The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers
 The result: simplified manufacturing process, reduced costs and simplified design

General ordering data

Туре	S2L/S2C 3.5 FLA 20/10	Version
Order No.	<u>1699580000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190891350	Number of poles: 10
Qty.	100 ST	
Туре	S2L/S2C 3.5 FLA 20/10 S	Version
Type Order No.	S2L/S2C 3.5 FLA 20/10 S 1814590000	Version PCB plug-in connector, Accessories, Flood-light display, Transparent,
	1814590000	

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

 Type
 B2L/S2L 3.50 KO BK BX
 Version

 Order No.
 1849740000
 PCB plug-in connector, Accessories, Coding element, black, Number

 GTIN (EAN)
 4032248378203
 of poles: 1

 Qty.
 100 ST

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Accessories

Type B2L/S2L 3.50 KO OR BX
Order No. 1849730000

4032248378197

GTIN (EAN) 4032248378 Qty. 100 ST Version

PCB plug-in connector, Accessories, Coding element, orange, Number

of poles: 1

Additional accessories



No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs ensure reliable pick-up from diagnostic sockets
- Cross-connectors ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements divide a large number of male connectors into several separate socket connector channels
- Locks and clips optional vibration-resistant clipon connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

General ordering data

Type PTSC KA 2.2X4.5 WN1412
Order No. 1610740000
GTIN (EAN) 4008190039523
Qty. 100 ST

Version

PCB plug-in connector, Accessories, Mounting screw, Number of

poles: 1

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