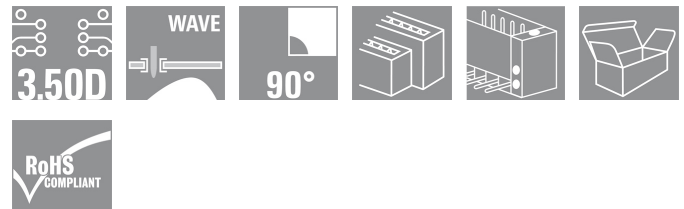


B2L/S2L 3.50 - 2-row series
S2L 3.50/30/90F 3.5SN OR BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-2083
 www.weidmueller.com



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.

- 80 V (IEC) / 150 V (UL)
- 9 A (IEC) / 8 A (UL)

General ordering data

Order No.	1728590000
Type	S2L 3.50/30/90F 3.5SN OR BX
Version	PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 30, 90°, Solder pin length (l): 3.5 mm, tinned, Orange, Box
GTIN (EAN)	4032248040056
Qty.	20 pc(s).
Product data	IEC: 250 V / 10 A UL: 150 V / 10 A
Packaging	Box

Creation date May 30, 2012 9:31:53 AM CEST

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Technical data
Dimensions

Net weight 8.23 g

System parameters

Product family		Mounting onto the PCB	
B2L/S2L 3.50 - 2-row series			Solder connection
Outgoing elbow	90°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	30
Solder pin length (l)	3.5 mm	Pin dimensions	d = 1.0 mm, Octagonal
Can be coded	Yes	Number of rows	1
Number of solder pins per pole	1	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)+ 0,1 mm		L1 in mm	49 mm
L1 in inches	1.929 inch	Touch-safe protection acc. to DIN VDE 0470	IP 10
Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch		


Material data

Insulating material	PBT	Colour	Orange
Insulating material group	IIIa	Flammability class UL 94	V-0
CTI	≥ 200	Contact material	Copper alloy
Contact surface	tinned	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	100 °C	Max. relative humidity during storage	93 %


DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	10 A	Rated current, max. no. of poles (Tu=20°C)	10 A
Rated current, number of poles (Tu=40°C), min	9 A	Rated current, number of poles (Tu=40°C), max.	8.5 A
Rated voltage for surge voltage class / pollution degree III/3	80 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Rated voltage for surge voltage class / pollution degree III/2	125 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated voltage for surge voltage class / pollution degree II/2	250 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 77 A		

CSA rating data

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

UL 1059 rating data

Institute (UR)		Rated voltage (use group B)	150 V
Rated current (use group B)	10 A	Rated voltage (use group C)	50 V
Rated current (use group C)	10 A		

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UNSPSC	30-21-18-10	eClass 4.1	27-26-07-01
eClass 5.1	27-26-07-01	eClass 6.0	27-26-07-04
eClass 7.0	27-44-04-02		

Notes

- Notes
- Additional colours on request
 - Gold-plated contact surfaces on request
 - Spacing between rows: see hole layout
 - Rated current related to rated cross-section and min. No. of poles.
 - P on drg. = 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.

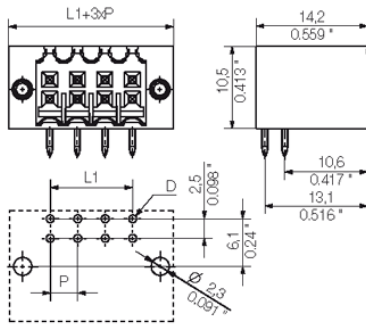
Downloads

- CAD Library (P-CAD Format - ASCII) [S2L-SMT.LIA](#)
- CAD Library (P-CAD Format - Standard) [S2L-SMT.LIB](#)
- [3-D model](#)

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Drawings



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Mating connector (fully pluggable)
B2L 3.50F

Component density redefined: the future standard for signal connection

Maximum connection density in the smallest of spaces - the 2-row B2L raises the bar higher for standard sensor cables up to 1mm² and bridges the gap between insufficient space and more functions.

The result is a connecting solution for standard industrial cables with 1.75 pitch - 30% smaller than an equivalent solution with 2.5 pitch and with 140% the robustness of 3.5 pitch

Dimensions: double the connection density with 3.5mm pitch size

Connection system: tried and tested maintenance-free Weidmüller tension clamp connection

Connection data / Performance:

- 0.20 - 1.0mm² (IEC) / 28 - 18 AWG (UL)
- 80 V / 10 A (IEC) / 150 V / 10 A (UL)
- No. of poles: 4 to 36

The basic application advantages:

Efficient - maximum component density on the PCB
 Suitable for industrial use - minimum dimensions, maximum robustness

Process-optimised - automatic configuration and reflow solders, rapid connection

User-friendly - patented release lever for the easy release of larger numbers of poles

Application-oriented: easy labelling and reliable coding despite compact dimensions

Miniaturisation is more than just a larger number of functions within a small space:

Every reduction in size decreases space requirements and the overall system costs less for the end customer.

Weidmüller fulfils a growing demand in the engineering and industrial automation sectors.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1748290000	B2L 3.50/30/180F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248198580	20 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1748130000	B2L 3.50/30/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248198573	20 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

**B2L/S2L 3.50 - 2-row series
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Mating connector (conditionally pluggable)
B2L 3.50LH


Female connectors with tension clamp connection system enable quick and simple wiring. These female header can be mounted side by side and therefore have a high connection density. The release lever simplifies the separation of the connection in confined spaces. The socket blocks provide space for labelling and can be coded.

- 0.20 - 1.0mm² (IEC) / 28 - 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1748610000	B2L 3.50/30/180LH SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248198627	20 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1748450000	B2L 3.50/30/180LH SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248198610	20 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

**B2L/S2L 3.50 - 2-row series
S2L 3.50/30/90F 3.5SN OR BX**

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Mating connector (conditionally pluggable)
B2L 3.50

Component density redefined: the future standard for signal connection

Maximum connection density in the smallest of spaces - the 2-row B2L raises the bar higher for standard sensor cables up to 1mm² and bridges the gap between insufficient space and more functions.

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Dimensions: double the connection density with 3.5mm pitch size

Connection system: tried and tested maintenance-free Weidmüller tension clamp connection

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- 80 V / 10 A (IEC) / 150 V / 10 A (UL)
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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1747970000	B2L 3.50/30/180 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248198559	20 pc(s).	IEC: 200 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1747890000	B2L 3.50/30/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248198542	20 pc(s).	IEC: 200 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

B2L/S2L 3.50 - 2-row series
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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

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data
1699580000	S2L 3.5 FLA 20/10	PCB plug-in connector, Accessories, Flood-light display, No. of poles: 10	4008190891350	100 pc(s).	

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

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data
1849730000	B2L/S2L 3.5 KO OR	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4032248378197	100 pc(s).	

Data sheet...**B2L/S2L 3.50 - 2-row series
S2L 3.50/30/90F 3.5SN OR BX**

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Accessories

[1849740000](#) B2L/S2L 3.5 KO SW

PCB plug-in connector,
Accessories, Coding
element, Black, No. of
poles: 1

4032248378203 100 pc(s).

