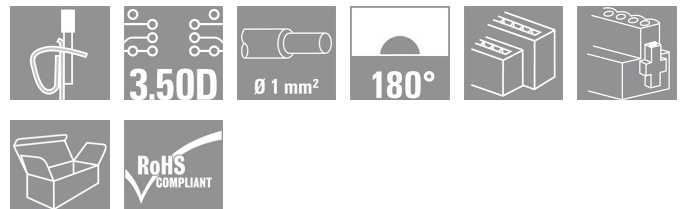


B2L/S2L 3.50 - 2-row series B2L 3.50/30/180F SN OR BX

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



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 1 mm² 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 3.5 mm pitch size

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

Connection data / Performance:

- 0.20 - 1.0 mm² (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.	1748130000
Type	B2L 3.50/30/180F SN OR BX
Version	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
GTIN (EAN)	4032248198573
Qty.	20 pc(s).
Product data	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16
Packaging	Box

Creation date May 30, 2012 9:38:48 AM CEST

B2L/S2L 3.50 - 2-row series
B2L 3.50/30/180F SN OR BX

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Technical data**Dimensions**

Net weight	17.75 g
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System parameters

Product family	B2L/S2L 3.50 - 2-row series	Conductor connection system	Tension clamp connection
Outgoing direction of conductor	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	30
Number of rows	1	Stripping length	7 mm
L1 in mm	49 mm	L1 in inches	1.929 inch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	PBT	Colour	Orange
Colour chart	Similar to RAL 2000	Flammability class UL 94	V-0
Contact material	Copper alloy	Contact surface	tinned
Continuous operating temp., min.	-25 °C	Continuous operating temp., max.	100 °C


Connectable conductors

Clamping range, rated connection, min.	0.08 mm ²	Clamping range, rated connection, max.	1 mm ²
Wire connection cross section AWG, min.	AWG 28	Wire connection cross section AWG, max.	AWG 18
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	1 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.13 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	0.34 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.13 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.34 mm ²

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	10.3 A	Rated current, max. no. of poles (Tu=20°C)	8.7 A
Rated current, number of poles (Tu=40°C), min	8.9 A	Rated current, number of poles (Tu=40°C), max.	7.4 A
Rated voltage for surge voltage class / pollution degree II/2	250 V	Rated voltage for surge voltage class / pollution degree III/2	160 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		

CSA rating data

Institute (CSA)		Rated voltage (Use group B)	300 V
Rated current (use group B)	5 A	Wire cross-section, AWG, min.	AWG 28
Wire cross-section, AWG, max.	AWG 18		

B2L/S2L 3.50 - 2-row series
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Technical data
UL 1059 rating data

Institute (UR)



Rated voltage (use group B)

300 V

Rated current (use group B) 10 A

Rated voltage (use group C) 50 V

Rated current (use group C) 10 A

Wire cross-section, AWG, min. AWG 28

Wire cross-section, AWG, max. AWG 16

Classifications

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

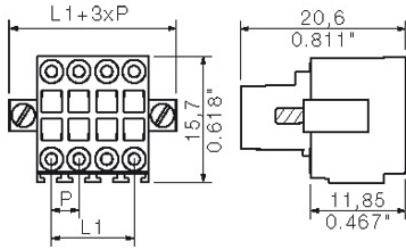
Notes

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drg. = pitch
- We recommend crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
- 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.

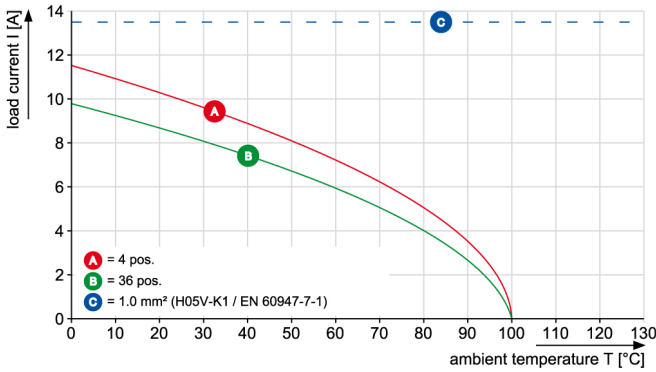
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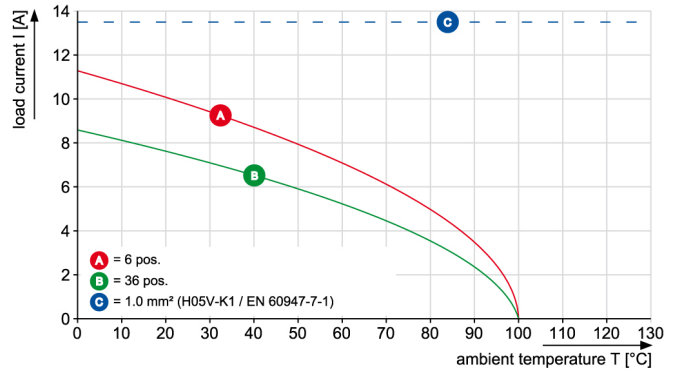
Drawings



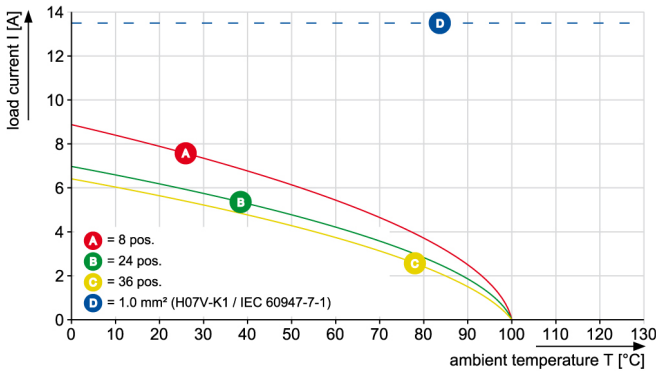
B2L 3.50/./180 - S2L-SMT 3.50/./90



B2L 3.50/./180 - S2L 3.50/./90



B2L 3.50/./180 - S2LD-THR 3.50/./90



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Mating connector (fully pluggable)
S2L-SMT 3.50/90LF Box


High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1794980000	S2L-SMT 3.50/30/90LF 3.2SN BK BX	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.50 mm, No. of poles: 30, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248232437	20 pc(s).	IEC: 160 V / 10 A UL: 150 V / 10 A	Box

S2L-SMT 3.50/180LF Box


High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1795320000	S2L-SMT 3.50/30/180LF 3.5SN BK BX	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.50 mm, No. of poles: 30, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248232833	20 pc(s).	IEC: 160 V / 10 A UL: 150 V / 10 A	Box

**B2L/S2L 3.50 - 2-row series
B2L 3.50/30/180F SN OR BX**

Weidmüller Interface GmbH & Co. KG
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Fax: +49 5231 14-2083
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Mating connector (fully pluggable)
S2L 3.50/180F


Straight 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.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1729550000	S2L 3.50/30/180F 3.5SN OR BX	PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 30, 180°, Solder pin length (l): 3.5 mm, tinned, Orange, Box	4032248040957	20 pc(s).	IEC: 250 V / 10 A UL: 150 V / 10 A	Box

S2L 3.50/90F


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.

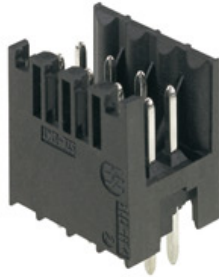
- 80 V (IEC) / 150 V (UL)
- 9 A (IEC / 8 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1728590000	S2L 3.50/30/90F 3.5SN OR BX	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	4032248040056	20 pc(s).	IEC: 250 V / 10 A UL: 150 V / 10 A	Box

**B2L/S2L 3.50 - 2-row series
B2L 3.50/30/180F SN OR BX**

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Mating connector (conditionally pluggable)
S2L-SMT 3.50/180 Box


High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimized for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers can be labelled and coded. (Packaging in tape on request)

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1794810000	S2L-SMT 3.50/30/180 3.5SN BK BX	PCB plug-in connector, male header, open side, Reflow solder connection, 3.50 mm, No. of poles: 30, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248231997	20 pc(s).	IEC: 160 V / 10 A UL: 150 V / 10 A	Box

S2L 3.50/90G


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.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1727950000	S2L 3.50/30/90G 3.5SN OR BX	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 30, 90°, Solder pin length (l): 3.5 mm, tinned, Orange, Box	4032248039449	20 pc(s).	IEC: 250 V / 10 A UL: 150 V / 10 A	Box
1728110000	S2L 3.50/30/90G 3.5SN BK BX	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 30, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248039609	20 pc(s).	IEC: 250 V / 10 A UL: 150 V / 10 A	Box

**B2L/S2L 3.50 - 2-row series
B2L 3.50/30/180F SN OR BX**

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Mating connector (conditionally pluggable)
S2L-SMT 3.50/90G Box


High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1794330000	S2L-SMT 3.50/30/90G 3.2SN BK BX	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 30, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248231508	20 pc(s).	IEC: 160 V / 10 A UL: 150 V / 10 A	Box

S2L-SMT 3.50/180G Box


High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1794650000	S2L-SMT 3.50/30/180G 3.5SN BK BX	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 30, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248231836	20 pc(s).	IEC: 160 V / 10 A UL: 150 V / 10 A	Box

**B2L/S2L 3.50 - 2-row series
B2L 3.50/30/180F SN OR BX**

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Mating connector (conditionally pluggable)
S2L 3.50/180G


Straight 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.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1729070000	S2L 3.50/30/180G 3.5SN BK BX	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 30, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248040506	20 pc(s).	IEC: 250 V / 10 A UL: 150 V / 10 A	Box
1728910000	S2L 3.50/30/180G 3.5SN OR BX	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 30, 180°, Solder pin length (l): 3.5 mm, tinned, Orange, Box	4032248040346	20 pc(s).	IEC: 250 V / 10 A UL: 150 V / 10 A	Box

S2L-SMT 3.50/90 BOX


High-temperature-resistant, straight, 2-tier pin header for all common soldering methods. Optimized for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These pin headers can be labelled and coded. (Packaging in tape on request)

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1794490000	S2L-SMT 3.50/30/90 3.2SN BK BX	PCB plug-in connector, male header, open side, Reflow solder connection, 3.50 mm, No. of poles: 30, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248231676	20 pc(s).	IEC: 160 V / 10 A UL: 150 V / 10 A	Box

**B2L/S2L 3.50 - 2-row series
B2L 3.50/30/180F SN OR BX**

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Accessories

Cover hoods



Effective protection, optimised ergonomics and closed design:

From the strain relief on the connected conductors and the visual/contact protection and the disconnection aid: the optional retrofit hoods perform mechanical, visual and haptic functions.

The two half shells clip together securely, enclose the plug completely and offer the following functions:

- Cable ties or integrated cable clips provide strain relief.
- Marked with dekafix labels or adhesive strips
- Mounting side by side without losing poles or displacing the pitch
- Compatible: suitable for plugs with or without a flange or mounting bracket
- Flexible: 1-3 cable outlets leading in different directions available depending on the size

Weidmüller hoods offer added stability, better identification, complete compatibility and versatility. The result: maximum reliability and user-friendliness in any application.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data
1781680000	B2L 3.50-AH 30 SW	PCB plug-in connector, Accessories, Cover hood, Black, No. of poles: 30	4032248172733	10 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).	
1849740000	B2L/S2L 3.5 KO SW	PCB plug-in connector, Accessories, Coding	4032248378203	100 pc(s).	

Data sheet...

B2L/S2L 3.50 - 2-row series
B2L 3.50/30/180F SN OR BX

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Accessories

element, Black, No. of
poles: 1

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