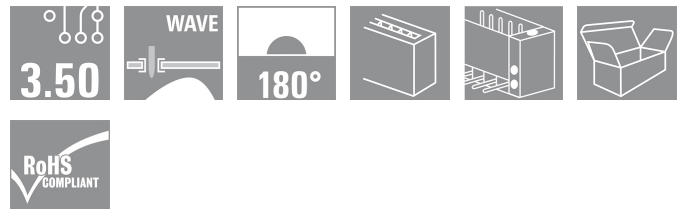
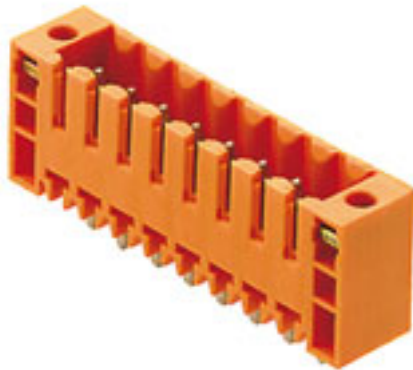


BL/SL 3.50 series
SL 3.50/06/180F 3.2SN OR BX

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



Male connector with 3.50 mm pitch for wave soldering
The male connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in cardboard box.

- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	1607540000
Type	SL 3.50/06/180F 3.2SN OR BX
Version	PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 6, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190177140

BL/SL 3.50 series
SL 3.50/06/180F 3.2SN OR BX

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Technical data
Dimensions

Net weight 1.99 g

System parameters

Product family	BL/SL 3.50 series	Mounting onto the PCB	Solder connection
Outgoing elbow	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	6
Solder pin length (l)	3.2 mm	Pin dimensions	d = 1.2 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	17.5 mm
L1 in inches	0.689 inch	Insulation resistance	10 ³ Ω
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	CuSn
Contact surface	tinned	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	100 °C	Max. relative humidity during storage	80 %

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	17 A	Rated current, max. no. of poles (Tu=20°C)	12 A
Rated current, number of poles (Tu=40°C), min	14.5 A	Rated current, number of poles (Tu=40°C), max.	10 A
Rated voltage for surge voltage class / pollution degree III/3	160 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	160 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	320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 100 A		

CSA rating data

Institute (CSA)		Rated voltage (Use group B)	300 V
Rated current (use group B)	10 A	Rated voltage (use group D)	300 V
Rated current (use group D)	10 A		

UL 1059 rating data

Institute (UR)		Rated voltage (use group B)	300 V
Rated current (use group B)	10 A	Rated voltage (use group D)	300 V
Rated current (use group D)	10 A		

BL/SL 3.50 series
SL 3.50/06/180F 3.2SN OR BX

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Technical data**Classifications**

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 4.1	27-26-07-01	eClass 5.1	27-26-07-04
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.
- 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) [SL.LIA](#)
CAD Library (P-CAD Format - Standard) [SL.LIB](#)
[3-D model](#)

BL/SL 3.50 series
SL 3.50/06/180F 3.2SN OR BX**Weidmüller Interface GmbH & Co. KG**

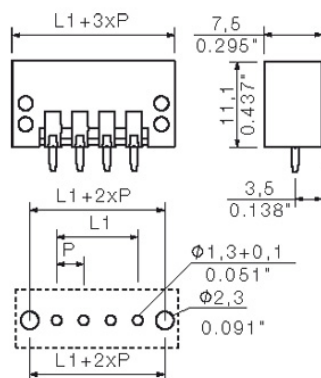
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www.weidmueller.com**Drawings**

BL/SL 3.50 series
SL 3.50/06/180F 3.2SN OR BX

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Mating connector (conditionally pluggable)
BL 3.5/180LH


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1687920000	BL 3.50/06/180LH SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853471
1687690000	BL 3.50/06/180LH SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853242

BL 3.5/90


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1638590000	BL 3.50/06/90 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276133
1638820000	BL 3.50/06/90 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping	4008190276362

BL/SL 3.50 series SL 3.50/06/180F 3.2SN OR BX

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Mating connector (conditionally pluggable)

range, rated connection,
max.: 1.5 mm², Box

BL 3.5/270



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1639740000	BL 3.50/06/270 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277291
1639510000	BL 3.50/06/270 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277062

BL 3.5/180



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1597400000	BL 3.50/06/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190119058
1610180000	BL 3.50/06/180 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping	4008190083458

BL/SL 3.50 series
SL 3.50/06/180F 3.2SN OR BX

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Mating connector (conditionally pluggable)

yoke connection, Clamping
 range, rated connection,
 max.: 1.5 mm², Box

BLIDCB 3.5


Female connectors for fast wiring with IDC system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.35 - 0.5 mm² (IEC) / 22 - 20 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 6 A (IEC) / 7 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1751420000	BLIDCB 3.50/06/- SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174355
1770710000	BLIDCB 3.50/06/- SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174492

BL/SL 3.50 series SL 3.50/06/180F 3.2SN OR BX

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Mating connector (fully pluggable)

BLIDCB 3.5F



Female connectors for fast wiring with IDC system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.35 - 0.5 mm² (IEC) / 22 - 20 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 6 A (IEC) / 7 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1751490000	BLIDCB 3.50/06/-F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174423
1770780000	BLIDCB 3.50/06/-F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174560

BL 3.5/180F



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1615820000	BL 3.50/06/180F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190062538
1606680000	BL 3.50/06/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping	4008190026165

BL/SL 3.50 series SL 3.50/06/180F 3.2SN OR BX

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Mating connector (fully pluggable)

range, rated connection,
max.: 1.5 mm², Box

BL 3.5/270F



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1639970000	BL 3.50/06/270F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277529
1640200000	BL 3.50/06/270F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277765

BL 3.5/90F



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)
1639280000	BL 3.50/06/90F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276829
1639050000	BL 3.50/06/90F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping	4008190276591

BL/SL 3.50 series
SL 3.50/06/180F 3.2SN OR BX

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Mating connector (fully pluggable)

yoke connection, Clamping
range, rated connection,
max.: 1.5 mm², Box

BL/SL 3.50 series SL 3.50/06/180F 3.2SN OR BX

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Accessories

Additional accessories



No task is too small when creating the perfect solution. br />

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 clip-on connection or mounting for male and female connectors

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

General ordering data

Order No.	Type	Version	GTIN (EAN)
1669310000	BL/SL 3.5 VR OR	PCB plug-in connector, Accessories, Latches, Orange, No. of poles: 1	4008190428488
1669300000	BL/SL 3.5 VR SW	PCB plug-in connector, Accessories, Latches, Black, No. of poles: 1	4008190428471

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)
1693430000	BL SL 3.5 KO OR	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190867447

BL/SL 3.50 series
SL 3.50/06/180F 3.2SN OR BX

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Accessories[1610100000](#) BL SL 3.5 KO SW

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

4008190187637

