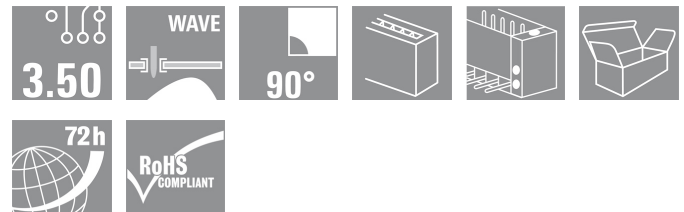
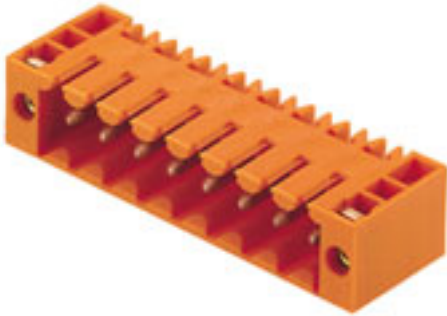


BL/SL 3.50 series
SL 3.50/04/90F 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-2083
 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.	1607060000
Type	SL 3.50/04/90F 3.2SN OR BX
Version	PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 4, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190131661
Qty.	100 pc(s).
Product data	IEC: 320 V / 17 A UL: 300 V / 10 A
Packaging	Box

Creation date May 30, 2012 9:27:56 AM CEST

**BL/SL 3.50 series
SL 3.50/04/90F 3.2SN OR BX**

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Technical data
Dimensions

Net weight 1.62 g

System parameters

Product family	BL/SL 3.50 series	Mounting onto the PCB	Solder connection
Outgoing elbow	90°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	4
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	10.5 mm
L1 in inches	0.413 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 3.50/04/90F 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

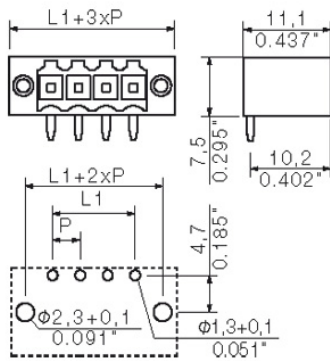
- Notes
- Additional colours on request
 - Gold-plated contact surfaces on request
 - Rated current related to rated cross-section and min. No. of poles.
 - P on drg. = pitch
 - Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance 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](#)

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Drawings

**BL/SL 3.50 series
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Mating connector (fully pluggable)
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)	Qty.	Product data	Packaging
1640180000	BL 3.50/04/270F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277741	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
1639950000	BL 3.50/04/270F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277505	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

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

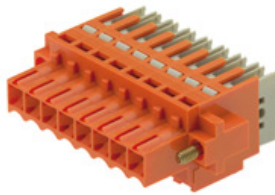
Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1639030000	BL 3.50/04/90F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276577	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
1639260000	BL 3.50/04/90F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping	4008190276805	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

**BL/SL 3.50 series
SL 3.50/04/90F 3.2SN OR BX**

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Mating connector (fully pluggable)

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

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)	Qty.	Product data	Packaging
1770760000	BLIDCB 3.50/04/-F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174546	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box
1751470000	BLIDCB 3.50/04/-F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174409	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box

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)	Qty.	Product data	Packaging
1606660000	BL 3.50/04/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190174620	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
1615800000	BL 3.50/04/180F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping	4008190062279	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**BL/SL 3.50 series
SL 3.50/04/90F 3.2SN OR BX****Weidmüller Interface GmbH & Co. KG**
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Fax: +49 5231 14-2083
www.weidmueller.com**Mating connector (fully pluggable)**

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

**BL/SL 3.50 series
SL 3.50/04/90F 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)	Qty.	Product data	Packaging
168790000	BL 3.50/04/180LH SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853457	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
168767000	BL 3.50/04/180LH SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853228	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	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)	Qty.	Product data	Packaging
175140000	BLIDCB 3.50/04/- SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174331	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box
177069000	BLIDCB 3.50/04/- SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC connection, Clamping	4032248174478	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box

**BL/SL 3.50 series
SL 3.50/04/90F 3.2SN OR BX**

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Mating connector (conditionally pluggable)

range, rated connection,
 max.: 0.5 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)	Qty.	Product data	Packaging
1639720000	BL 3.50/04/270 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277277	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
1639490000	BL 3.50/04/270 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277048	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

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)	Qty.	Product data	Packaging
1615690000	BL 3.50/04/180 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190059033	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
1597380000	BL 3.50/04/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping	4008190111489	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**BL/SL 3.50 series
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Mating connector (conditionally pluggable)

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

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)	Qty.	Product data	Packaging
1638800000	BL 3.50/04/90 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276348	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
1638570000	BL 3.50/04/90 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276119	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

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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
1597640000	SL 3.5 FLA 2.3/1.75/8	PCB plug-in connector, Accessories, Flood-light display, No. of poles: 1	4008190011321	25 pc(s).	
1597510000	SL 3.5 FLA 1.5/8	PCB plug-in connector, Accessories, Flood-light display, No. of poles: 1	4008190127541	50 pc(s).	
1597520000	SL 3.5 FLA 2.3/8	PCB plug-in connector, Accessories, Flood-light display, No. of poles: 1	4008190120566	50 pc(s).	
1597530000	SL 3.5 FLA 4.0/8	PCB plug-in connector, Accessories, Flood-light display, No. of poles: 1	4008190075699	50 pc(s).	
1597630000	SL 3.5 FLA 1.5/1.75/8	PCB plug-in connector, Accessories, Flood-light display, No. of poles: 1	4008190148386	50 pc(s).	
1597650000	SL 3.5 FLA 4.0/1.75/8	PCB plug-in connector, Accessories, Flood-light display, No. of poles: 1	4008190027773	50 pc(s).	

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Accessories
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
1693430000	BL SL 3.5 KO OR	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190867447	100 pc(s).	
1610100000	BL SL 3.5 KO SW	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190187637	100 pc(s).	

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 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)	Qty.	Product data
1669310000	BL/SL 3.5 VR OR	PCB plug-in connector, Accessories, Latches, Orange, No. of poles: 1	4008190428488	100 pc(s).	

Data sheet...**BL/SL 3.50 series**
SL 3.50/04/90F 3.2SN OR BX**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
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Fon: +49 5231 14-0
Fax: +49 5231 14-2083
www.weidmueller.com**Accessories**[1669300000](#) BL/SL 3.5 VR SWPCB plug-in connector, 4008190428471 100 pc(s).
Accessories, Latches, Black,
No. of poles: 1

