

**BL/SL 3.50 series**  
**SL 3.50/08/180G 3.2SN OR BX**
**onlinecomponents.com**  
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

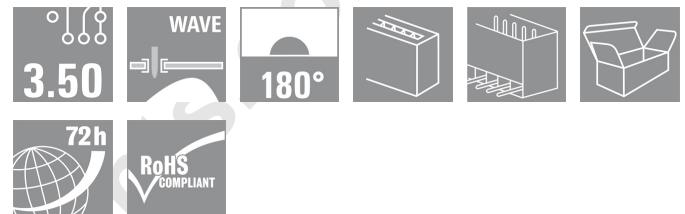
D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-2083

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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.	<a href="#">1604530000</a>
Type	SL 3.50/08/180G 3.2SN OR BX
Version	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 8, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
Product data	IEC: 320 V / 17 A UL: 300 V / 10 A
GTIN (EAN)	4008190090975
Packaging	Box
Qty.	50 pc(s).

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**BL/SL 3.50 series**  
**SL 3.50/08/180G 3.2SN OR BX****Technical data****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	8
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	24.5 mm
L1 in inches	0.965 inch	Insulation resistance	10 <sup>3</sup> Ω
Touch-safe protection acc. to DIN VDE 0470	IP 10	Touch-safe protection acc. to DIN VDE 57106	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		

**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

**BL/SL 3.50 series  
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- 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.

**Approvals**

Approvals

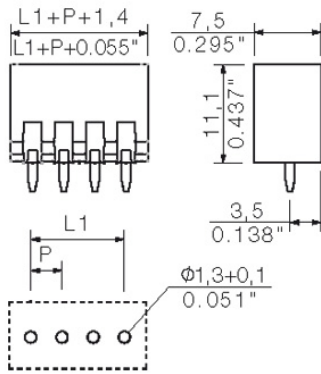
**Downloads**

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

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**Drawings**



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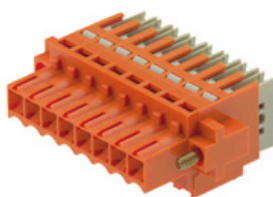
**Mating connector (conditionally pluggable)**
**BL 3.5/180F**


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 mm<sup>2</sup> (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">160670000</a>	BL 3.50/08/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	4008190068257	Box	50 pc(s).
<a href="#">161584000</a>	BL 3.50/08/180F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	4008190063047	Box	50 pc(s).

**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 mm<sup>2</sup> (IEC) / 22 - 20 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 6 A (IEC) / 7 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">175151000</a>	BLIDCB 3.50/08/-F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm <sup>2</sup> , Box	IEC: 250 V / 6 A / 0.35 - 0.5 mm <sup>2</sup> UL: 300 V / 7 A / AWG 22 - AWG 20	4032248174447	Box	10 pc(s).
<a href="#">177080000</a>	BLIDCB 3.50/08/-F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm <sup>2</sup> , Box	IEC: 250 V / 6 A / 0.35 - 0.5 mm <sup>2</sup> UL: 300 V / 7 A / AWG 22 - AWG 20	4032248174584	Box	10 pc(s).

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**Mating connector (conditionally pluggable)**

 rated connection, max.: 0.5  
 mm<sup>2</sup>, Box

**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 mm<sup>2</sup> (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1687940000</a>	BL 3.50/08/180LH SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	4008190853495	Box	50 pc(s).
<a href="#">1687710000</a>	BL 3.50/08/180LH SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	4008190853266	Box	50 pc(s).

**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 mm<sup>2</sup> (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1639300000</a>	BL 3.50/08/90F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	4008190276843	Box	50 pc(s).
<a href="#">1639070000</a>	BL 3.50/08/90F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	4008190276614	Box	50 pc(s).

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**BL/SL 3.50 series**  
**SL 3.50/08/180G 3.2SN OR BX**

**Mating connector (conditionally pluggable)**

connection, Clamping range, UL: 300 V / 8 A /  
 rated connection, max.: 1.5 AWG 28 - AWG 14  
 mm<sup>2</sup>, 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 mm<sup>2</sup> (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1640220000</a>	BL 3.50/08/270F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	4008190277789	Box	50 pc(s).
<a href="#">1639990000</a>	BL 3.50/08/270F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	4008190277543	Box	50 pc(s).

**BL/SL 3.50 series  
SL 3.50/08/180G 3.2SN OR BX**
**Mating connector (fully pluggable)**
**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 mm<sup>2</sup> (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1639530000</a>	BL 3.50/08/270 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> / UL: 300 V / 8 A / AWG 28 - AWG 14	4008190277086	Box	50 pc(s).
<a href="#">1639760000</a>	BL 3.50/08/270 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> / UL: 300 V / 8 A / AWG 28 - AWG 14	4008190277314	Box	50 pc(s).

**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 mm<sup>2</sup> (IEC) / 22 - 20 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 6 A (IEC) / 7 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1751440000</a>	BLIDCB 3.50/08/- SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm <sup>2</sup> , Box	IEC: 250 V / 6 A / 0.35 - 0.5 mm <sup>2</sup> / UL: 300 V / 7 A / AWG 22 - AWG 20	4032248174379	Box	10 pc(s).
<a href="#">1770730000</a>	BLIDCB 3.50/08/- SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm <sup>2</sup> , Box	IEC: 250 V / 6 A / 0.35 - 0.5 mm <sup>2</sup> / UL: 300 V / 7 A / AWG 22 - AWG 20	4032248174515	Box	10 pc(s).

**BL/SL 3.50 series**  
**SL 3.50/08/180G 3.2SN OR BX**

**Mating connector (fully pluggable)**

rated connection, max.: 0.5  
 mm<sup>2</sup>, Box

**BL 3.5/90**



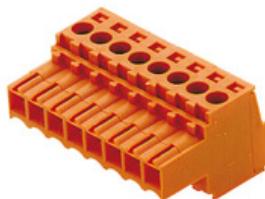
Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They include space for labelling and can be coded.

- 0.20 - 1.5 mm<sup>2</sup> (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1638610000</a>	BL 3.50/08/90 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> / UL: 300 V / 8 A / AWG 28 - AWG 14	4008190276157	Box	50 pc(s).
<a href="#">1638840000</a>	BL 3.50/08/90 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> / UL: 300 V / 8 A / AWG 28 - AWG 14	4008190276386	Box	50 pc(s).

**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 mm<sup>2</sup> (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1615700000</a>	BL 3.50/08/180 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> / UL: 300 V / 10 A / AWG 28 - AWG 14	4008190059910	Box	50 pc(s).
<a href="#">1597420000</a>	BL 3.50/08/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup>	4008190191993	Box	50 pc(s).

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[www.weidmueller.com](http://www.weidmueller.com)**Mating connector (fully pluggable)**connection, Clamping range, UL: 300 V / 10 A /  
rated connection, max.: 1.5 AWG 28 - AWG 14  
mm<sup>2</sup>, Box

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