

BL/SL 3.50 series
SL-SMT 3.50/03/180G 1.5SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

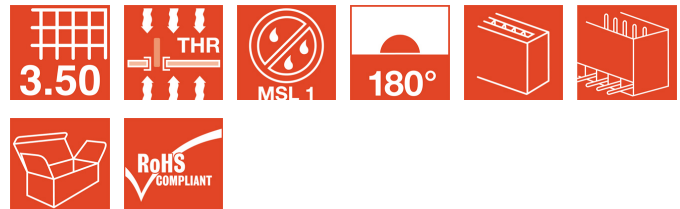
D-32758 Detmold

Germany

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High-temperature-resistant male connector with 3.50 mm pitch for all customary 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 have space for labelling and can be coded.

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

General ordering data

Order No.	1752992001
Type	SL-SMT 3.50/03/180G 1.5SN BK BX
Version	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box
Product data	IEC: 320 V / 15 A UL: 300 V / 10 A
GTIN (EAN)	4032248130917
Qty.	100 pc(s).
Packaging	Box

Creation date March 14, 2012 6:50:05 AM CET

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Technical data
System parameters

Product family	BL/SL 3.50 series	Mounting onto the PCB	Reflow solder connection
Outgoing elbow	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	3
Solder pin length (l)	1.5 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)	1.4 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	7 mm
L1 in inches	0.276 inch	Insulation resistance	10 ³ 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	LCP GF	Colour	Black
Insulating material group	IIIa	Flammability class UL 94	V-0
CTI	≥ 175	Temperature of glow-wire test	960 °C
Duration of glow-wire test	30 s	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)	15 A	Rated current, max. no. of poles (Tu=20°C)	12 A
Rated current, number of poles (Tu=40°C), min	13 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		

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Technical data
Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
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.
 - Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
 - 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

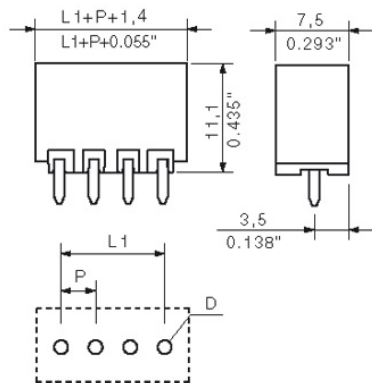
Approvals


Downloads

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

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Drawings

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Mating connector (conditionally pluggable)
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	Product data	GTIN (EAN)	Qty.	Packaging
1639250000	BL 3.50/03/90F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	4008190276799	100 pc(s).	Box
1639020000	BL 3.50/03/90F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	4008190276560	100 pc(s).	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 mm² (IEC) / 28 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

General ordering data

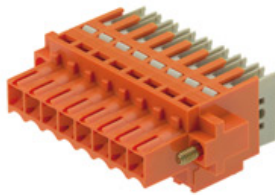
Order No.	Type	Version	Product data	GTIN (EAN)	Qty.	Packaging
1687660000	BL 3.50/03/180LH SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	4008190853211	100 pc(s).	Box
1687890000	BL 3.50/03/180LH SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	4008190853440	100 pc(s).	Box

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Mating connector (conditionally pluggable)

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	Product data	GTIN (EAN)	Qty.	Packaging
1770750000	BLIDCB 3.50/03-F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	4032248174539	10 pc(s).	Box
1751460000	BLIDCB 3.50/03-F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	4032248174393	10 pc(s).	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	Product data	GTIN (EAN)	Qty.	Packaging
1639710000	BL 3.50/03/270 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	4008190277260	100 pc(s).	Box
1639480000	BL 3.50/03/270 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	4008190277031	100 pc(s).	Box

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Mating connector (conditionally pluggable)

connection, Clamping range, UL: 300 V / 8 A /
 rated connection, max.: 1.5 AWG 28 - AWG 14
 mm², Box

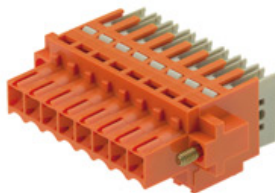
BL 3.5/270F


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	Product data	GTIN (EAN)	Qty.	Packaging
1639940000	BL 3.50/03/270F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	4008190277499	100 pc(s).	Box
1640170000	BL 3.50/03/270F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	4008190277734	100 pc(s).	Box

BLIDCB 3.5F BS


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	Product data	GTIN (EAN)	Qty.	Packaging
1836450000	BLIDCB 3.50/03-FBS SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	IEC: 320 V / 6 A / 0.24032248339051 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20		100 pc(s).	Box

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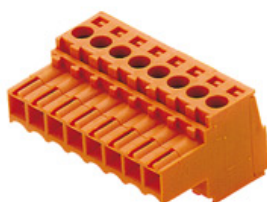
Mating connector (conditionally pluggable)
BL 3.5/180F


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 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	Product data	GTIN (EAN)	Qty.	Packaging
1615790000	BL 3.50/03/180F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	4008190062132	100 pc(s).	Box
1606650000	BL 3.50/03/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	4008190123062	100 pc(s).	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	Product data	GTIN (EAN)	Qty.	Packaging
1597370000	BL 3.50/03/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	4008190169909	100 pc(s).	Box
1615680000	BL 3.50/03/180 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	4008190058906	100 pc(s).	Box

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Mating connector (conditionally pluggable)

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	Product data	GTIN (EAN)	Qty.	Packaging
170680000	BLIDCB 3.50/03/- SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	4032248174461	10 pc(s).	Box
1751390000	BLIDCB 3.50/03/- SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC connection, Clamping range, rated connection, max.: 0.5 mm ² , Box	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	4032248174317	10 pc(s).	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	Product data	GTIN (EAN)	Qty.	Packaging
1638790000	BL 3.50/03/90 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	4008190276331	100 pc(s).	Box
1638560000	BL 3.50/03/90 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	4008190276096	100 pc(s).	Box

BL/SL 3.50 series
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Mating connector (conditionally pluggable)

connection, Clamping range, UL: 300 V / 8 A /
rated connection, max.: 1.5 AWG 28 - AWG 14
mm², Box