

System pitch 3.50 mm (0.138 inch)
SL-SMT 3.50/10/90G 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG
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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.	1841710000
Part designation	SL-SMT 3.50/10/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.50 mm, No. of poles: 10, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248353064
Qty.	50 pc(s).
Packaging	Box

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/10/90G 3.2SN BK BX

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Technical data

System parameters

Fitted to PCB	Reflow solder connection	Outgoing elbow	90°
Pitch in mm	3.5 mm	Pitch in inch	0.138 inch
No. of poles	10	Solder pin length	3.2 mm
Can be coded	Yes	No. of rows	1
Number of solder pins per pole	1	Diameter of solder eyelet	1.4 mm
Tolerance of the diameter of the solder eyelet	+ 0,1 mm	L1 in mm	31.5 mm
L1 in inch	1.24 inch	Insulation resistance	10 ³ Ω
Electric shock protection to DIN VDE 0470	IP 10	Electric shock protection to DIN VDE 57 106	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	Highest continuous operating temperature, min.	-25 °C
Highest continuous operating temperature, 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, no. of poles (Tu=40°C), min.	13 A	Rated current, no. of poles (Tu=40°C), max.	10 A
Rated voltage at overvoltage category/pollution degree III/3	160 V	Rated impulse withstand voltage for overvoltage class/pollution severity III/3	2.5 kV
Rated voltage for overvoltage class/pollution severity III/2	160 V	Rated impulse withstand voltage for overvoltage class/pollution severity III/2	2.5 kV
Rated voltage for overvoltage class/pollution severity II/2	320 V	Rated impulse withstand voltage for overvoltage class/pollution severity II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 100 A		

CSA rating data

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

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

Approvals

Approvals institutes	CSA; GOSTME25; UR; ROHS
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Classifications

ETIM 3.0	EC001284	eClass 5.1	27-26-07-04
eClass 6.0	27-26-07-04		

Datasheet

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Technical data

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 = 1.4+0.1 mm
- 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.

Downloads

CAD Library (P-CAD Format - ASCII) [SL-SMT.LIA](#)

CAD Library (P-CAD Format - Standard) [SL-SMT.LIB](#)

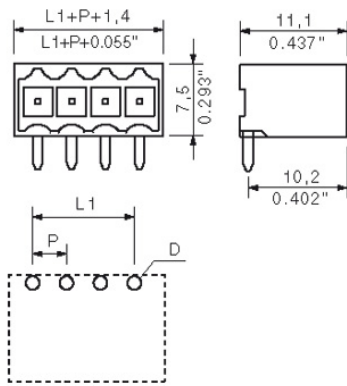
[3D model](#)

Datasheet

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Drawings



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Counterpart

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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1639550000	BL 3.50/10/270 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190277109	50 pc(s).	Box
1639780000	BL 3.50/10/270 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190277338	50 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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1606570000	BL 3.50/10/180 SN DKGN BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190039851	50 pc(s).	Box
1597440000	BL 3.50/10/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190192013	50 pc(s).	Box
1740681001	BL 3.50/10/180 SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke	4008190961633	50 pc(s).	Box

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Counterpart

		connection, Clamping range, max.: 1.5 mm ² , Box			
1620530000	BL 3.50/10/180 SN GY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190158545	50 pc(s).	Box
1610200000	BL 3.50/10/180 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190126940	50 pc(s).	Box

BLIDC 3.5 SN



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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1750870000	BLIDC 3.50/10/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°/180°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248146178	50 pc(s).	Box

BLZF 3.5/180



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

- 0.20 - 1.5 mm² (IEC) / 26 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 14.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1690270000	BLZF 3.50/10/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Box	4008190328764	50 pc(s).	Box

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Counterpart

1690500000	BLZF 3.50/10/180 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Box	4008190329013	50 pc(s).	Box
1690730000	BLZF 3.50/10/180 SN DKGX BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Box	4008190329242	50 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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1638860000	BL 3.50/10/90 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190276409	50 pc(s).	Box
1638630000	BL 3.50/10/90 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190276171	50 pc(s).	Box

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Counterpart

BL-I/O 3.5/30



Female connector with Push In connection as plug-in connection level for decentralised I/O electronics; used in conjunction with male connectors with 3.50 mm pitch.

- 0.20 - 1.5 mm² (IEC) / 22 - 16 AWG (UL)
- 50 V (IEC) / 50 V (UL)
- 2.2 A (IEC) / 5 A (UL)

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1792330000	BL-I/O 3.50/30F M SN BK BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248225330	20 pc(s).	Box
1965930000	BL-I/O 3.50/30FP SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657599	20 pc(s).	Box
1779920000	BL-I/O 3.50/30F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248165247	20 pc(s).	Box
1779910000	BL-I/O 3.50/30FP SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248165230	20 pc(s).	Box
1965910000	BL-I/O 3.50/30F SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657575	20 pc(s).	Box

BL-I/O 3.5/30 NPN LED



Female connector with Push In connection as plug-in connection level for decentralised I/O electronics; used in conjunction with male connectors with 3.50 mm pitch.

- 0.20 - 1.5 mm² (IEC) / 22 - 16 AWG (UL)
- 50 V (IEC) / 50 V (UL)
- 2.2 A (IEC) / 5 A (UL)

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1965980000	BL-I/O 3.50/30F NPN LED SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657742	20 pc(s).	Box

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/10/90G 3.2SN BK BX

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Counterpart

1938020000	BL-I/O 3.50/30F NPN LED SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248610235	20 pc(s).	Box
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BL-I/O 3.5/10 F PNP LED



Female connector with Push In connection as plug-in connection level for decentralised I/O electronics; used in conjunction with male connectors with 3.50 mm pitch.

- 0.20 - 1.5 mm² (IEC) / 22 - 16 AWG (UL)
- 50 V (IEC) / 50 V (UL)
- 2.2 A (IEC) / 5 A (UL)

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1965940000	BL-I/O 3.50/10F PNP LED SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657605	20 pc(s).	Box
1789080000	BL-I/O 3.50/10FP PNP LED SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248208012	20 pc(s).	Box
1789090000	BL-I/O 3.5010F PNP LED SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248208029	20 pc(s).	Box
1965960000	BL-I/O 3.50/10FP PNP LED SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657728	20 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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1687960000	BL 3.50/10/180LH SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke	4008190853518	50 pc(s).	Box

Creation date October 1, 2010 9:20:53 PM CEST

Last update 30.08.2010 / We reserve the right to make technical changes.

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Counterpart

		connection, Clamping range, max.: 1.5 mm ² , Box			
1687730000	BL 3.50/10/180LH SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190853280	50 pc(s).	Box

BL-I/O 3.5/10 NPN LED



Female connector with Push In connection as plug-in connection level for decentralised I/O electronics; used in conjunction with male connectors with 3.50 mm pitch.

- 0.20 - 1.5 mm² (IEC) / 22 - 16 AWG (UL)
- 50 V (IEC) / 50 V (UL)
- 2.2 A (IEC) / 5 A (UL)

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1938010000	BL-I/O 3.50/10F NPN LED SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248610228	20 pc(s).	Box
1965950000	BL-I/O 3.50/10F NPN LED SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657711	20 pc(s).	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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1639320000	BL 3.50/10/90F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190276867	50 pc(s).	Box
1639090000	BL 3.50/10/90F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°, Clamping yoke connection,	4008190276638	50 pc(s).	Box

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/10/90G 3.2SN BK BX

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Counterpart

Clamping range, 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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1640240000	BL 3.50/10/270F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190277819	50 pc(s).	Box
1640010000	BL 3.50/10/270F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190277567	50 pc(s).	Box

BL-I/O 3.5/10



Female connector with Push In connection as plug-in connection level for decentralised I/O electronics; used in conjunction with male connectors with 3.50 mm pitch.

- 0.20 - 1.5 mm² (IEC) / 22 - 16 AWG (UL)
- 50 V (IEC) / 50 V (UL)
- 2.2 A (IEC) / 5 A (UL)

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1779880000	BL-I/O 3.50/10F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248165209	20 pc(s).	Box
1965890000	BL-I/O 3.50/10FP SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657551	20 pc(s).	Box
1779870000	BL-I/O 3.50/10FP SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles:	4032248165193	20 pc(s).	Box

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Counterpart

10, 180°, PUSH IN, Clamping
 range, max.: 1.5 mm², Box

1871690000	BL-I/O 3.50/10F SN LTGY BX	PCB plug-in connector, female	4032248451197	20 pc(s).	Box
plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box					

BL-I/O 3.5/30 F PNP LED



Female connector with Push In connection as plug-in connection level for decentralised I/O electronics; used in conjunction with male connectors with 3.50 mm pitch.

- 0.20 - 1.5 mm² (IEC) / 22 - 16 AWG (UL)
- 50 V (IEC) / 50 V (UL)
- 2.2 A (IEC) / 5 A (UL)

General ordering data

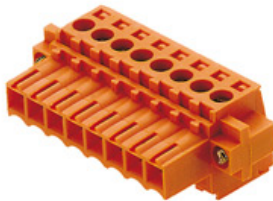
Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1965970000	BL-I/O 3.50/30F PNP LED SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657735	20 pc(s).	Box
1965990000	BL-I/O 3.50/30FP PNP LED SN LTGY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248657759	20 pc(s).	Box
1789110000	BL-I/O 3.50/30F PNP LED SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248208043	20 pc(s).	Box
1789100000	BL-I/O 3.50/30FP PNP LED SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, max.: 1.5 mm ² , Box	4032248208036	20 pc(s).	Box

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Counterpart

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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1606720000	BL 3.50/10/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190062422	50 pc(s).	Box
1701730000	BL 3.50/10/180F SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190908058	50 pc(s).	Box
1615860000	BL 3.50/10/180F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190063269	50 pc(s).	Box