

**System pitch 3.50 mm (0.138 inch)
SL-SMT 3.50/04/90G 3.2SN BK BX**

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www.weidmueller.com



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.	1841650000
Part designation	SL-SMT 3.50/04/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.50 mm, No. of poles: 4, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248352807
Qty.	100 pc(s).
Packaging	Box

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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	4	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	10.5 mm
L1 in inch	0.413 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](#)

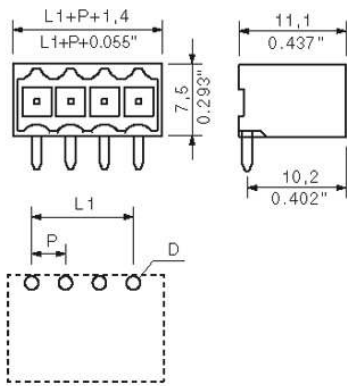
[3D model](#)

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
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, max.: 1.5 mm ² , Box	4008190277277	100 pc(s).	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, max.: 1.5 mm ² , Box	4008190277048	100 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
1750810000	BLIDC 3.50/04/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/180°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248146109	100 pc(s).	Box

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Counterpart

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
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, max.: 1.5 mm ² , Box	4008190059033	100 pc(s).	Box
1606540000	BL 3.50/04/180 SN DKGX BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190000936	100 pc(s).	Box
1620470000	BL 3.50/04/180 SN GY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190157456	100 pc(s).	Box
1740641001	BL 3.50/04/180 SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190961541	100 pc(s).	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 yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190111489	100 pc(s).	Box

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Counterpart

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
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, max.: 1.5 mm ² , Box	4008190276348	100 pc(s).	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, max.: 1.5 mm ² , Box	4008190276119	100 pc(s).	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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1751400000	BLIDCB 3.50/04/- SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248174331	10 pc(s).	Box
1770690000	BLIDCB 3.50/04/- SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248174478	10 pc(s).	Box

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Counterpart

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
1687900000	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, max.: 1.5 mm ² , Box	4008190853457	100 pc(s).	Box
1687670000	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, max.: 1.5 mm ² , Box	4008190853228	100 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
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 range, max.: 1.5 mm ² , Box	4008190276805	100 pc(s).	Box
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, max.: 1.5 mm ² , Box	4008190276577	100 pc(s).	Box

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Counterpart

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
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, max.: 1.5 mm ² , Box	4008190277741	100 pc(s).	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, max.: 1.5 mm ² , Box	4008190277505	100 pc(s).	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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1740731001	BL 3.50/04/180F SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190961732	100 pc(s).	Box
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, max.: 1.5 mm ² , Box	4008190174620	100 pc(s).	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 yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190062279	100 pc(s).	Box

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Counterpart

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

BLIDC 3.5F 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
1771110000	BLIDC 3.50/04/180F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/180°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248146826	100 pc(s).	Box
1751110000	BLIDC 3.50/04/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/180°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248146659	100 pc(s).	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.	Part designation	Version	GTIN (EAN)	Qty.	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 terminal, Clamping range, max.: 0.5 mm ² , Box	4032248174546	10 pc(s).	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 terminal,	4032248174409	10 pc(s).	Box

Datasheet

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Counterpart

Clamping range, max.: 0.5
mm², Box
