

**System pitch 3.50 mm (0.138 inch)
SL-SMT 3.50/08/90G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-2083
 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.	1841690000
Part designation	SL-SMT 3.50/08/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.50 mm, No. of poles: 8, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248353040
Qty.	50 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	8	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	24.5 mm
L1 in inch	0.965 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](#)

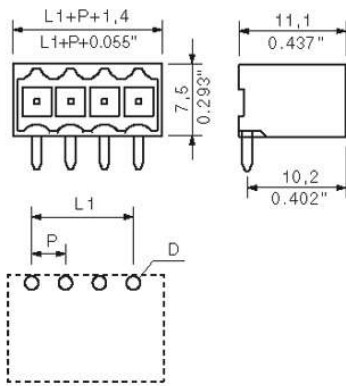
[3D model](#)

Datasheet

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Drawings



System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/08/90G 3.2SN BK BX

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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
1639760000	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, max.: 1.5 mm ² , Box	4008190277314	50 pc(s).	Box
1639530000	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, max.: 1.5 mm ² , Box	4008190277086	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
1750850000	BLIDC 3.50/08/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/180°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248146147	50 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
1597200000	BL 3.50/08/180 SN DKGX BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190122218	50 pc(s).	Box
1740671001	BL 3.50/08/180 SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190961619	50 pc(s).	Box
1597420000	BL 3.50/08/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190191993	50 pc(s).	Box
1615700000	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, max.: 1.5 mm ² , Box	4008190059910	50 pc(s).	Box
1620510000	BL 3.50/08/180 SN GY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190158279	50 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
1638610000	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, max.: 1.5 mm ² , Box	4008190276157	50 pc(s).	Box
1638840000	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, max.: 1.5 mm ² , Box	4008190276386	50 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
1751440000	BLIDCB 3.50/08/- SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248174379	10 pc(s).	Box
1770730000	BLIDCB 3.50/08/- SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248174515	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
1687940000	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, max.: 1.5 mm ² , Box	4008190853495	50 pc(s).	Box
1687710000	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, max.: 1.5 mm ² , Box	4008190853266	50 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
1639300000	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, max.: 1.5 mm ² , Box	4008190276843	50 pc(s).	Box
1639070000	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, max.: 1.5 mm ² , Box	4008190276614	50 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
1640220000	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, max.: 1.5 mm ² , Box	4008190277789	50 pc(s).	Box
1639990000	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, max.: 1.5 mm ² , Box	4008190277543	50 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
1689930000	BL 3.50/08/180F SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190862534	50 pc(s).	Box
1615840000	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, max.: 1.5 mm ² , Box	4008190063047	50 pc(s).	Box
1606700000	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, max.: 1.5 mm ² , Box	4008190068257	50 pc(s).	Box

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Counterpart

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

BLIDCB 3.5F



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- 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
1751510000	BLIDCB 3.50/08/-F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248174447	10 pc(s).	Box
1770800000	BLIDCB 3.50/08/-F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 8, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248174584	10 pc(s).	Box