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**System pitch 3.50 mm (0.138 inch)
SL-SMT 3.50/06/90G 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.	1841670000
Part designation	SL-SMT 3.50/06/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.50 mm, No. of poles: 6, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248353026
Qty.	50 pc(s).
Packaging	Box

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/06/90G 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	6	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	17.5 mm
L1 in inch	0.689 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](#)

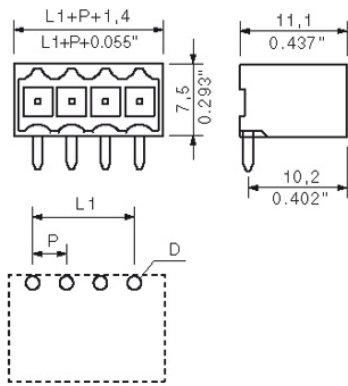
[3D model](#)

Datasheet

**System pitch 3.50 mm (0.138 inch)
SL-SMT 3.50/06/90G 3.2SN BK BX**

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Drawings



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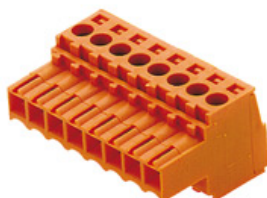
Counterpart
BL 3.5/270


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
1639740000	BL 3.50/06/270 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190277291	50 pc(s).	Box
1639510000	BL 3.50/06/270 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190277062	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
1740661001	BL 3.50/06/180 SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190961596	50 pc(s).	Box
1599430000	BL 3.50/06/180 SN DKGN BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190155179	50 pc(s).	Box
1610180000	BL 3.50/06/180 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190083458	50 pc(s).	Box

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/06/90G 3.2SN BK BX

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Counterpart

		connection, Clamping range, max.: 1.5 mm ² , Box			
1597400000	BL 3.50/06/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190119058	50 pc(s).	Box
1620490000	BL 3.50/06/180 SN GY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190157791	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
1750830000	BLIDC 3.50/06/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/180°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248146123	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
1638820000	BL 3.50/06/90 SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190276362	50 pc(s).	Box

Datasheet

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/06/90G 3.2SN BK BX

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Counterpart

1638590000	BL 3.50/06/90 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4008190276133	50 pc(s).	Box
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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
1770710000	BLIDCB 3.50/06/- SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm², Box	4032248174492	10 pc(s).	Box
1751420000	BLIDCB 3.50/06/- SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm², Box	4032248174355	10 pc(s).	Box

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/06/90G 3.2SN BK BX

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Counterpart

BLDZ 3.5/180



General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1766510000	BLDZ 3.50/06/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 2.08 mm², Box	4032248179817	50 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
1687690000	BL 3.50/06/180LH SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4008190853242	50 pc(s).	Box
1687920000	BL 3.50/06/180LH SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4008190853471	50 pc(s).	Box

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/06/90G 3.2SN BK BX

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Counterpart

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
1639280000	BL 3.50/06/90F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190276829	50 pc(s).	Box
1639050000	BL 3.50/06/90F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190276591	50 pc(s).	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
1639970000	BL 3.50/06/270F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190277529	50 pc(s).	Box
1640200000	BL 3.50/06/270F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190277765	50 pc(s).	Box

System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/06/90G 3.2SN BK BX

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Counterpart

BL 3.5/180F



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- 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
1615820000	BL 3.50/06/180F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190062538	50 pc(s).	Box
1606680000	BL 3.50/06/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190026165	50 pc(s).	Box
1740751001	BL 3.50/06/180F SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4008190961770	50 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
1751490000	BLIDCB 3.50/06/-F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm ² , Box	4032248174423	10 pc(s).	Box
1770780000	BLIDCB 3.50/06/-F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC terminal,	4032248174560	10 pc(s).	Box

Datasheet

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Counterpart

Clamping range, max.: 0.5
mm², Box