

**System pitch 3.50 mm (0.138 inch)  
SL-SMT 3.50/03/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
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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.	<a href="#">1841640000</a>
Part designation	SL-SMT 3.50/03/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.50 mm, No. of poles: 3, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248352791
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	3	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	7 mm
L1 in inch	0.276 inch	Insulation resistance	10 <sup>3</sup> 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](#)

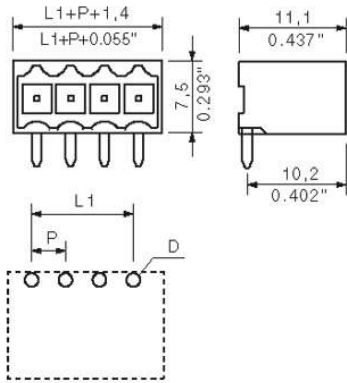
[3D model](#)

**Datasheet**

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**Drawings**



## System pitch 3.50 mm (0.138 inch) SL-SMT 3.50/03/90G 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 mm<sup>2</sup> (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
<a href="#">1639480000</a>	BL 3.50/03/270 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4008190277031	100 pc(s).	Box
<a href="#">1639710000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190277260	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 mm<sup>2</sup> (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
<a href="#">1750800000</a>	BLIDC 3.50/03/180 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/180°, IDC terminal, Clamping range, max.: 0.5 mm <sup>2</sup> , Box	4032248146093	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 mm<sup>2</sup> (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
<a href="#">1606530000</a>	BL 3.50/03/180 SN DKGX BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4008190009274	100 pc(s).	Box
<a href="#">1620460000</a>	BL 3.50/03/180 SN GY BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4008190157159	100 pc(s).	Box
<a href="#">1597370000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190169909	100 pc(s).	Box
<a href="#">1615680000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190058906	100 pc(s).	Box
<a href="#">1740631001</a>	BL 3.50/03/180 SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4008190961527	100 pc(s).	Box

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## Counterpart

### 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 mm<sup>2</sup> (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
<a href="#">1836450000</a>	BLIDCB 3.50/03/-FBS SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm <sup>2</sup> , Box	4032248339051	100 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 mm<sup>2</sup> (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
<a href="#">1638790000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190276331	100 pc(s).	Box
<a href="#">1638560000</a>	BL 3.50/03/90 SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4008190276096	100 pc(s).	Box

## Datasheet

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## Counterpart

### BLIDCB 3.5



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- 0.35 - 0.5 mm<sup>2</sup> (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
<a href="#">1751390000</a>	BLIDCB 3.50/03/- SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm <sup>2</sup> , Box	4032248174317	10 pc(s).	Box
<a href="#">1770680000</a>	BLIDCB 3.50/03/- SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm <sup>2</sup> , Box	4032248174461	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 mm<sup>2</sup> (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
<a href="#">1687890000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190853440	100 pc(s).	Box
<a href="#">1687660000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190853211	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 mm<sup>2</sup> (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
<a href="#">1639250000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190276799	100 pc(s).	Box
<a href="#">1639020000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190276560	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 mm<sup>2</sup> (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
<a href="#">1640170000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190277734	100 pc(s).	Box
<a href="#">1639940000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190277499	100 pc(s).	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 mm<sup>2</sup> (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
<a href="#">1751100000</a>	BLIDC 3.50/03/180F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/180°, IDC terminal, Clamping range, max.: 0.5 mm <sup>2</sup> , Box	4032248146642	100 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 mm<sup>2</sup> (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
<a href="#">1606650000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190123062	100 pc(s).	Box
<a href="#">1740721001</a>	BL 3.50/03/180F SN OR BX PRT	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4008190961718	100 pc(s).	Box
<a href="#">1615790000</a>	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, max.: 1.5 mm <sup>2</sup> , Box	4008190062132	100 pc(s).	Box

### BLIDCB 3.5F



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- 0.35 - 0.5 mm<sup>2</sup> (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
<a href="#">1751460000</a>	BLIDCB 3.50/03/-F SN OR BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, max.: 0.5 mm <sup>2</sup> , Box	4032248174393	10 pc(s).	Box
<a href="#">1770750000</a>	BLIDCB 3.50/03/-F SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal,	4032248174539	10 pc(s).	Box

## Datasheet

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## Counterpart

Clamping range, max.: 0.5  
mm<sup>2</sup>, Box