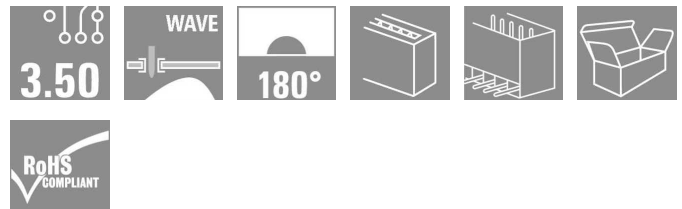
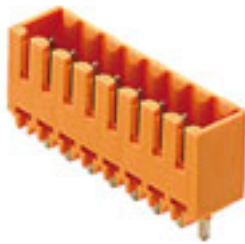


**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
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Male header with 3.50 mm pitch for wave soldering

- Plugging direction angled to the PCB (135°)
- Housing variant: screw flange (F)
- Packaged in cardboard box (BX)
- Male header can be coded

250 V (IEC) / 300 V (UL)  
17 A (IEC) / 10 A (UL)

**General ordering data**

Type	SL 3.50/10/180G 3.2SN OR BX
Order No.	<a href="#">1604550000</a>
Version	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190111663
Qty.	50 pc(s).
Product data	IEC: 320 V / 17 A UL: 300 V / 10 A
Packaging	Box

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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**Technical data**
**Dimensions and weights**

Net weight 2.39 g

**System parameters**

Product family		Mounting onto the PCB	
	OMNIMATE Signal - series BL/SL 3.50		Solder connection
Outgoing elbow	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	10
Solder pin length (l)	3.2 mm	Pin dimensions	d = 1.2 mm, Octagonal
Can be coded	Yes	Number of solder pins per pole	1
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)	+ 0.1 mm
L1 in mm	31.5 mm	L1 in inches	1.24 inch
Insulation resistance	10 <sup>3</sup> Ω	Touch-safe protection acc. to DIN VDE 0470	IP 10
Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch		


**Material data**

Insulating material	PBT	Colour	Orange
Insulating material group	IIIa	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	CuSn
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C	Max. relative humidity during storage	80 %

**DIN IEC rating data**

Rated current, min. no. of poles (Tu=20°C)	17 A	Rated current, max. no. of poles (Tu=20°C)	12 A
Rated current, number of poles (Tu=40°C), min	14.5 A	Rated current, number of poles (Tu=40°C), max.	10 A
Rated voltage for surge voltage class / pollution degree III/3	160 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated voltage for surge voltage class / pollution degree II/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 100 A		

**CSA rating data**

Institute (CSA)		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		

**Data sheet**

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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**Technical data**

**UL 1059 rating data**

Institute (UR)



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

**Classifications**

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 5.1	27-26-07-04	eClass 6.2	27-26-07-04
eClass 7.1	27-44-04-02		

**Notes**

Notes

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

**Approvals**

Approvals



ROHS

Conform

**Downloads**

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

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

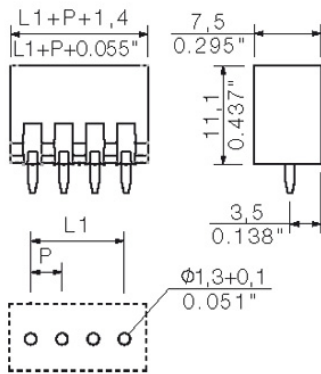
[3-D model](#)

**Data sheet**

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

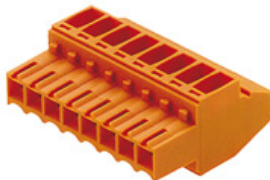
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**Drawings**



**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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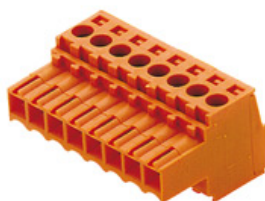
**Mating connector (fully pluggable)**
**BL 3.50/90**


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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/10/90 SN BK BX	<a href="#">1638860000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190276409	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/10/90 SN OR BX	<a href="#">1638630000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190276171	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box

**BL 3.50/180**


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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/10/180 SN OR BX	<a href="#">1597440000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190192013	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/10/180 SN BK BX	<a href="#">1610200000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated	4008190126940	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	Box

## OMNIMATE Signal - series BL/SL 3.50 SL 3.50/10/180G 3.2SN OR BX

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### Mating connector (fully pluggable)

connection, max.: 1.5 mm<sup>2</sup>,  
 Box

#### BL 3.50/270



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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/10/270 SN BK BX	<a href="#">1639780000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190277338	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/10/270 SN OR BX	<a href="#">1639550000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190277109	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	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 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 14.5 A (IEC) / 10 A (UL)

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 3.50/10/180 SN BK BX	<a href="#">1690500000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190329013	50 pc(s).	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 14	Box

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**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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**Mating connector (fully pluggable)**

BLZF 3.50/10/180 SN OR BX	<a href="#">1690270000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190328764 50 pc(s).	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 14
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**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**BL-I/O 3.5/10 NPN LED**


Female header with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronics; used together with male headers in 3.50 mm pitch.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL-I/O 3.50/10F NPN LED SN BK BX	<a href="#">1938010000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm², Box	4032248610228	20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm² UL: 50 V / 5 A / AWG 24 - AWG 16	Box
2014-05-20T08:00:00 BL-I/O 3.50/10F NPN LED SN LTGY BX	<a href="#">1965950000</a>		PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm², Box	4032248657711	20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm² UL: 50 V / 5 A / AWG 24 - AWG 16

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**BL 3.50/180F**


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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/10/180F SN OR BX	<a href="#">1606720000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190062422	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/10/180F SN BK BX	<a href="#">1615860000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190063269	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**BL-I/O 3.5/30 F PNP LED**


Female header with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronics; used together with male headers in 3.50 mm pitch.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL-I/O 3.50/30FP PNP LED SN BK BX	<a href="#">1789100000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248208036	20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box
BL-I/O 3.50/30F PNP	<a href="#">1965970000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°	4032248657735	20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box

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## OMNIMATE Signal - series BL/SL 3.50 SL 3.50/10/180G 3.2SN OR BX

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### Mating connector (conditionally pluggable)

LED SN LTGY BX		PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box			
BL-I/O 3.50/30F PNP LED SN BK BX	<a href="#">1789110000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248208043 20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box
2014-05-20T08:00:00Z	<a href="#">1965990000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248657759 20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	

### BL-I/O 3.5/10



Female header with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronics; used together with male headers in 3.50 mm pitch.

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL-I/O 3.50/10F SN BK BX	<a href="#">1779880000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248165209 20 pc(s).		IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box
BL-I/O 3.50/10FP SN BK BX	<a href="#">1779870000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection,	4032248165193 20 pc(s).		IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box

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**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**

Clamping range, rated  
connection, max.: 1.5 mm<sup>2</sup>,  
Box

2014-05-20T08:00:00Z	BLI/O 3.50/10/180G 3.2SN LTGY BX	<a href="#">1965890000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	403224865755120 pc(s).	IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box
BL-I/O 3.50/10F SN LTGY BX	<a href="#">1871690000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	403224845119720 pc(s).	IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box	

**BL-I/O 3.5/30**



Female header with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronics; used together with male headers in 3.50 mm pitch.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL-I/O 3.50/30F SN BK BX	<a href="#">1779920000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	403224816524720 pc(s).		IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box
2014-05-20T08:00:00Z	BLI/O 3.50/10/180G 3.2SN LTGY BX	<a href="#">1965930000</a>	PCB plug-in connector, female plug, 3.50 mm,	403224865759920 pc(s).	IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box

**OMNIMATE Signal - series BL/SL 3.50  
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**Mating connector (conditionally pluggable)**

			No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	
BL-I/O 3.50/30F M SN BK BX PRT	<a href="#">1792330000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248225330 20 pc(s).	IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box
BL-I/O 3.50/30FP SN BK BX	<a href="#">1779910000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248165230 20 pc(s).	IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box
BL-I/O 3.50/30F SN LTGY BX	<a href="#">1965910000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248657575 20 pc(s).	IEC: 200 V / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**BL 3.50/180LH**


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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/10/180LH SN OR BX	<a href="#">1687730000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190853280	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/10/180LH SN BK BX	<a href="#">1687960000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190853518	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**BL 3.50/90F**


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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/10/90F SN OR BX	<a href="#">1639090000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190276638	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/10/90F SN BK BX	<a href="#">1639320000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping	4008190276867	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box

## OMNIMATE Signal - series BL/SL 3.50 SL 3.50/10/180G 3.2SN OR BX

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### Mating connector (conditionally pluggable)

range, rated connection,  
max.: 1.5 mm<sup>2</sup>, Box

#### BL 3.50/270F



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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/10/270F SN BK BX	<a href="#">1640240000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190277819	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/10/270F SN OR BX	<a href="#">1640010000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190277567	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box

#### BL-I/O 3.5/30 NPN LED



Female header with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronics; used together with male headers in 3.50 mm pitch.

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL-I/O 3.50/30F NPN LED SN BK BX	<a href="#">1938020000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248610235	20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box

Creation date July 1, 2014 5:14:54 PM CEST

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**

2014-05-20	BLI/O 3.50/10F NPN LED SN LTGY BX	<a href="#">1965980000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248657742 20 pc(s).	IEC: / 2.2 A / 0.2 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16
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**BL-I/O 3.5/10 F PNP LED**



Female header with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronics; used together with male headers in 3.50 mm pitch.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL-I/O 3.50/10F PNP LED SN LTGY BX	<a href="#">1965940000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248657605 20 pc(s).		IEC: / 2.2 A / 0.2 - 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	Box
2014-05-20	BLI/O 3.50/10F PNP LED SN LTGY BX	<a href="#">1965960000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4032248657728 20 pc(s).	IEC: / 2.2 A / 0.2 1 mm <sup>2</sup> UL: 50 V / 5 A / AWG 24 - AWG 16	

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/10/180G 3.2SN OR BX**

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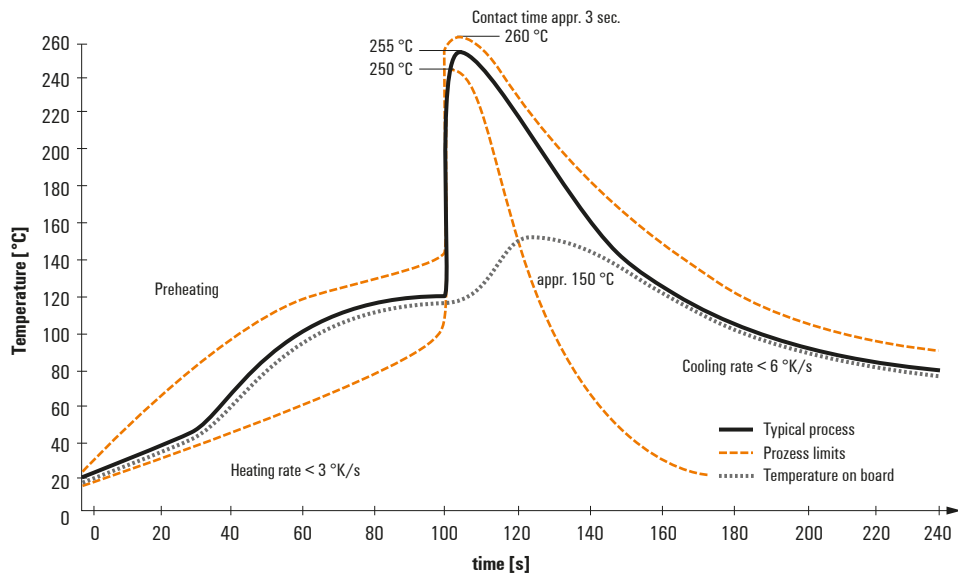
**Mating connector (conditionally pluggable)**

				AWG
				16
BL-I/O <a href="#">1789080000</a> 3.50/10FP PNP LED SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm², Box	4032248208012 20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm² UL: 50 V / 5 A / AWG 24 - AWG 16	Box
BL-I/O <a href="#">1789090000</a> 3.50/10F PNP LED SN BK BX	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm², Box	4032248208029 20 pc(s).	IEC: / 2.2 A / 0.2 - 1 mm² UL: 50 V / 5 A / AWG 24 - AWG 16	Box

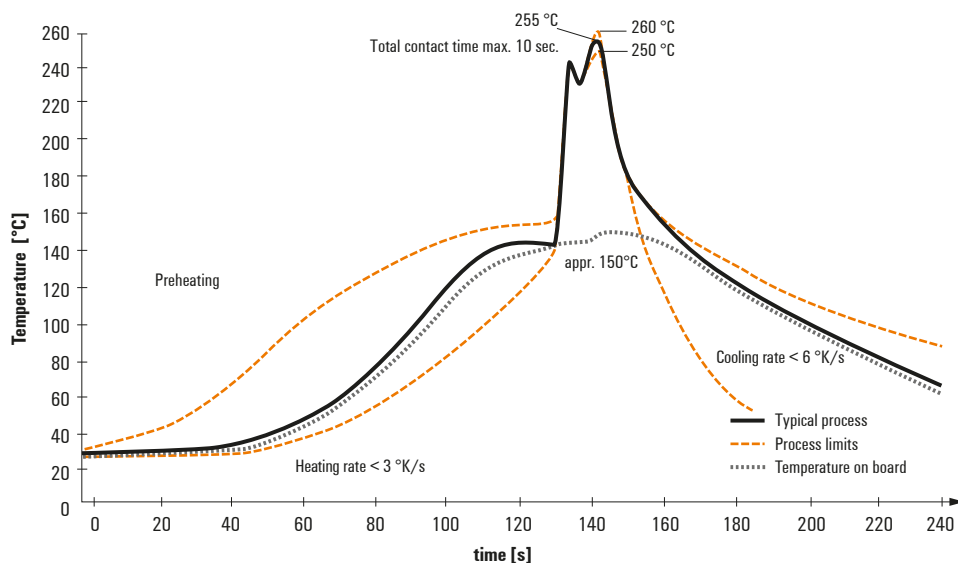
## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.


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