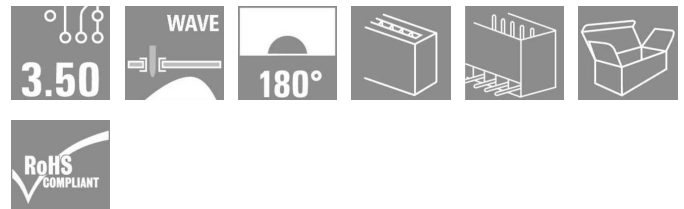


**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/04/180G 3.2SN OR BX**

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Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/04/180G 3.2SN OR BX
Order No.	1604490000
Version	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 4, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190115852
Qty.	100 pc(s).
Product data	IEC: 320 V / 17 A UL: 300 V / 10 A
Packaging	Box

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Technical data**Dimensions and weights**

Net weight	1.052 g
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System parameters

Product family		Mounting onto the PCB	
Product family	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	4
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm
Plugging cycles	25	Can be coded	Yes
Number of solder pins per pole	1	Solder eyelet hole diameter (D)	1.4 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	10.5 mm
L1 in inches	0.413 inch	Insulation resistance	≥ 10 ⁸ 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
Volume resistance	6.00 mΩ		


Material data

Insulating material	PBT	Moisture Level (MSL)	3
Colour	Orange	Insulating material group	IIIa
UL 94 flammability rating	V-0	CTI	≥ 200
Contact material	CuSn	Layer structure of solder connection	5-7 μm Sn glossy
Layer structure of plug contact	5-7 undefined Sn glossy	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
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %		

Rating data acc. to IEC 60664-1 / IEC 61984

Rated current, min. no. of poles (Ta = 20°C)	17 A	Rated current, max. no. of poles (Ta = 20°C)	12 A
Rated current, min. no. of poles (Ta = 40°C)	14.5 A	Rated current, max. no. of poles (Ta = 40°C)	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		

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	154685-1318353
Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	10 A	Rated current (use group D)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Creation date January 25, 2016 11:55:19 AM CET

Catalogue status 15.01.2015 / We reserve the right to make technical changes.

2

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/04/180G 3.2SN OR BX**

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Technical data**Rated data acc. to UL 1059**

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (use group B)	300 V
Rated current (use group B)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (use group D)	300 V
Rated current (use group D)	10 A

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
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
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02

Notes

Notes	<ul style="list-style-type: none"> • 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.
IPC conformity	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

Approvals

Approvals



ROHS

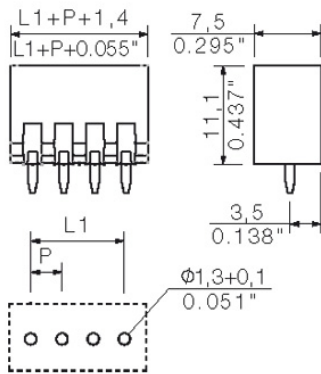
Conform

Downloads

EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer)	Select your download
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 3.50/04/180G 3.2SN OR BX**

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Drawings

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/04/180G 3.2SN OR BX**

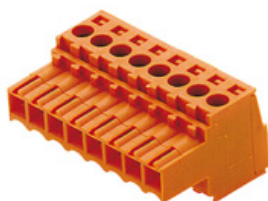
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Mating connector (fully pluggable)
BL 3.50/270


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/04/270 SN OR BX	1639490000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277048	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/04/270 SN BK BX	1639720000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277277	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² 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 provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/04/180 SN BK BX	1615690000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190059033	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/04/180 SN OR BX	1597380000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping	4008190111489	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/04/180G 3.2SN OR BX**

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Mating connector (fully pluggable)

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

BL 3.50/90


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/04/90 SN OR BX	1638570000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276119	132 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/04/90 SN BK BX	1638800000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276348	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

BLIDCB 3.5


Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLIDCB 3.50/04/- SN OR BX	1751400000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174331	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box
2014-05-20T09:00:00 BLIDCB 3.50/04/- SN BK BX	1770690000			PCB plug-in connector, female plug, 3.50 mm,		IEC: 250 V /

Creation date January 25, 2016 11:55:19 AM CET

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Mating connector (fully pluggable)

No. of poles:	6
4, 90°/270°,	A /
IDC terminal,	0.35
Clamping range,	-
rated connection,	0.5
max.: 0.5 mm ² ,	mm ²
Box	UL:
	300
	V /
	7
	A /
	AWG
	22
	-
	AWG
	20

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/04/180G 3.2SN OR BX**

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Mating connector (conditionally pluggable)
BLIDCB 3.5F


Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLIDCB 3.50/04/-F SN OR BX	1751470000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174409	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box
BLIDCB 3.50/04/-F SN BK BX	1770760000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174546	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box

BL 3.50/90F


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/04/90F SN BK BX	1639260000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276805	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/04/90F SN OR BX	1639030000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping	4008190276577	90 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

OMNIMATE Signal - series BL/SL 3.50
SL 3.50/04/180G 3.2SN OR BX

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Mating connector (conditionally pluggable)

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

BL 3.50/270F


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/04/270F SN BK BX	1640180000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	400819027774	190 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/04/270F SN OR BX	1639950000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277505	90 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

BL 3.50/180F


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/04/180F SN OR BX	1606660000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190174620	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/04/180F SN BK BX	1615800000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping	4008190062279	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

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Mating connector (conditionally pluggable)

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

BL 3.50/180LH



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/04/180LH SN OR BX	1687670000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853228	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/04/180LH SN BK BX	1687900000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853457	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

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Accessories

Additional accessories



No task is too small when creating the perfect solution.

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
BL/SL 3.50 VR BK BX	1669300000	PCB plug-in connector, Accessories, Latches, Black, No. of poles: 1	4008190428471	100 pc(s).	
BL/SL 3.50 VR OR BX	1669310000	PCB plug-in connector, Accessories, Latches, Orange, No. of poles: 1	4008190428488	100 pc(s).	

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
BL SL 3.5 KO SW	1610100000	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190187637	100 pc(s).	

Data sheet**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/04/180G 3.2SN OR BX**

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Accessories

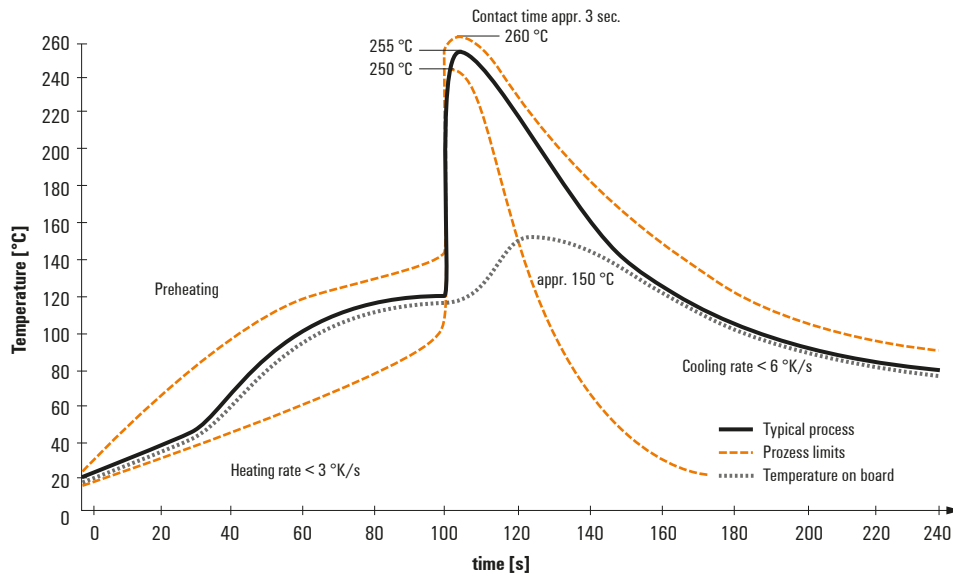
BL SL 3.5 KO [1693430000](#)
OR

PCB plug-in connector, 4008190867447 100 pc(s).
Accessories, Coding
element, Orange, No. of
poles: 1

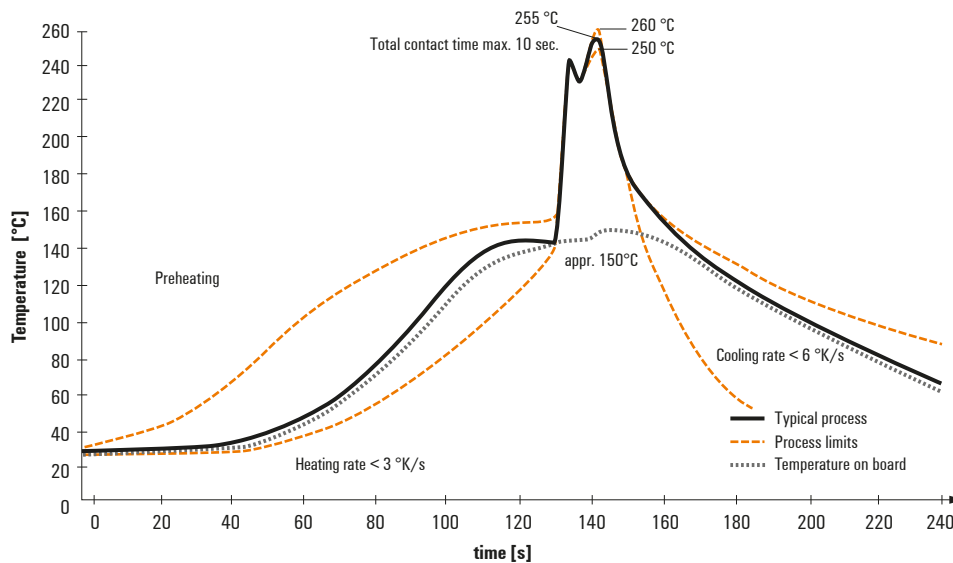
Recommended wave soldering profiles

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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.

Addresses worldwide

Let's connect.

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