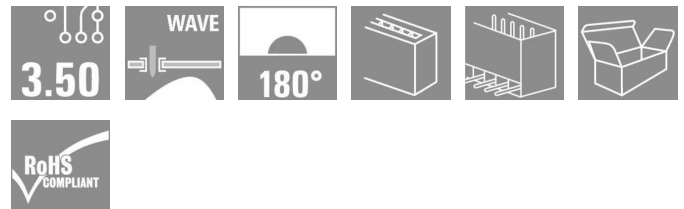


OMNIMATE Signal - series BL/SL 3.50 SL 3.50/06/180G 3.2SN OR BX

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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 3.50/06/180G 3.2SN OR BX
Order No.	1604510000
Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, No. of poles: 6, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190159559
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 3.50/06/180G 3.2SN OR BX**

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Technical data
Dimensions and weights

Net weight 1.51 g

System parameters

Product family		Mounting onto the PCB	
OMNIMATE Signal - series BL/SL 3.50		THT solder connection	
Outgoing elbow	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	6
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	17.5 mm
L1 in inches	0.689 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	Colour	Orange
Insulating material group	IIla	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.		

Data sheet

OMNIMATE Signal - series BL/SL 3.50 SL 3.50/06/180G 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

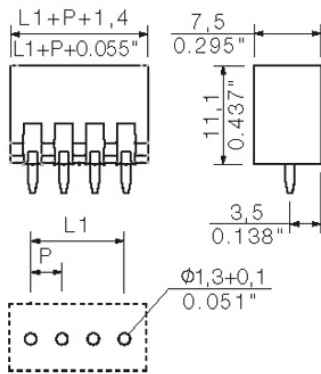
EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer)	Select your download
CAD Library (P-CAD Format - ASCII)	SL.zip
CAD Library (P-CAD Format - Standard)	SL.zip
3-D model	

Data sheet

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/06/180G 3.2SN OR BX**

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Drawings



**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/06/180G 3.2SN OR BX**

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Mating connector (fully pluggable)
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 3.50/06/180 SN BK BX	1610180000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190083458	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/06/180 SN OR BX	1597400000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190119058	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

BL 3.50/90


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 3.50/06/90 SN BK BX	1638820000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276362	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/06/90 SN OR BX	1638590000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping	4008190276133	50 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 3.50/06/180G 3.2SN OR BX**

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Mating connector (fully pluggable)

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

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 3.50/06/270 SN OR BX	1639510000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277062	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/06/270 SN BK BX	1639740000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277291	50 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

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-05-20	BLIDCB 3.50/06/- SN BK BX	1770710000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC terminal, Clamping range, rated connection,	4032248174492	10 pc(s).	IEC: 250 V / 6 A / 0.35 -

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/06/180G 3.2SN OR BX**

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Mating connector (fully pluggable)

max.: 0.5 mm ² ,	0.5
Box	mm ²
	UL:
	300
	V /
	7
	A /
	AWG
	22
	-
	AWG
	20

BLIDCB	1751420000	PCB plug-in connector,	4032248174355 10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ²	Box
3.50/06/- SN		female plug, 3.50 mm, No.		UL: 300 V / 7 A / AWG 22 - AWG 20	
OR BX		of poles: 6, 90°/270°, IDC			
		terminal, Clamping range,			
		rated connection, max.: 0.5			
		mm ² , Box			

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/06/180G 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 provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/06/180F SN BK BX	1615820000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190062538	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/06/180F SN OR BX	1606680000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190026165	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

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 3.50/06/-F SN OR BX	1751490000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174423	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box
2014-05-20T08:00:00 BLIDCB 3.50/06/-F SN BK BX	1770780000		4032248174560	10 pc(s).	IEC: 250 V / 6 A / 0.35	

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/06/180G 3.2SN OR BX**

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Mating connector (conditionally pluggable)

Clamping range,	-
rated connection,	0.5
max.: 0.5 mm ² ,	mm ²
Box	UL:
	300
	V /
	7
	A /
	AWG
	22
	-
	AWG
	20

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 3.50/06/90F SN OR BX	1639050000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276591	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/06/90F SN BK BX	1639280000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276829	50 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 3.50/06/180G 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 provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/06/180LH SN OR BX	1687690000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853242	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/06/180LH SN BK BX	1687920000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853471	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

BL 3.50/270F


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 3.50/06/270F SN BK BX	1640200000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277765	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/06/270F SN OR BX	1639970000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping	4008190277529	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

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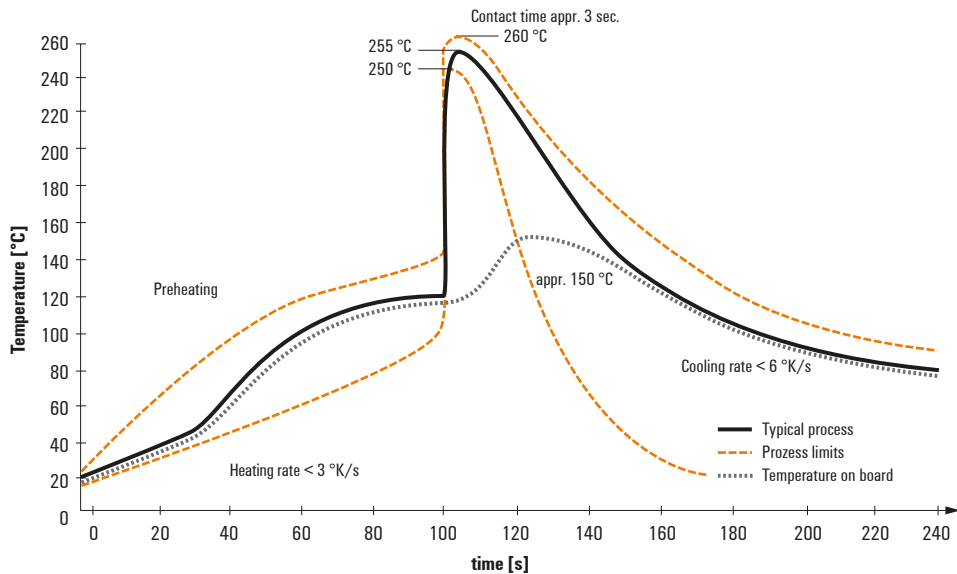
Mating connector (conditionally pluggable)

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

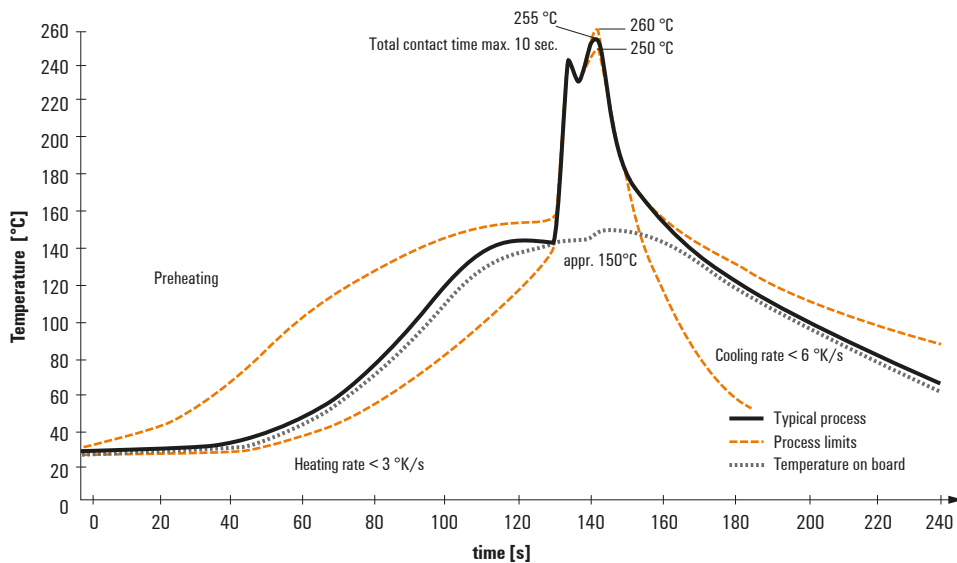
Recommended wave soldering profiles

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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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Let's connect.

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