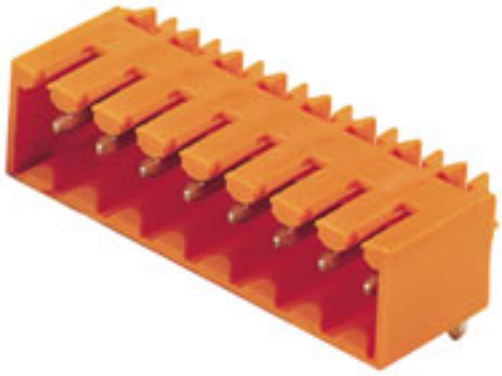
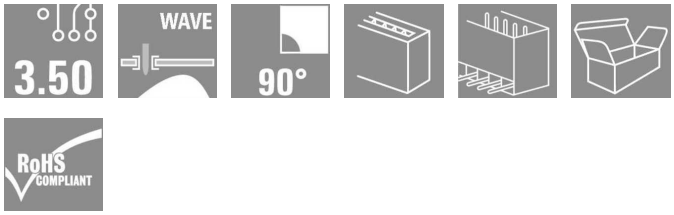
OMNIMATE Signal - series BL/SL 3.50
SL 3.50/03/90G 3.2SN OR BX

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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 3.50/03/90G 3.2SN OR BX
Order No.	1605080000
Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190088538
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	0.877 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 3.50	Type of connection	Solder connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Outgoing elbow	90°
No. of poles	3	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0,03 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	7 mm
L1 in inches	0.276 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Touch-safe protection acc. to DIN VDE 0470	IP 10	Volume resistance	6.00 mΩ
Can be coded	Yes	Plugging cycles	25
push-in force/pole	4 N	Withdrawal force per pole	4 N
Packaging	Box		

Material data

Insulating material	PBT	Colour	Orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
CTI	≥ 200	Insulation resistance	≥ 10^8 Ω
UL 94 flammability rating	V-0	Contact base material	CuSn
Contact material	CuSn	Contact surface	tinned
Layer structure of solder connection	2-4 µm Ni / 5-8 µm Sn glossy	Layer structure of plug contact	2-4 undefined Ni / 5-8 undefined Sn glossy
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		

Rated data acc. to IEC

tested acc. to standard	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 II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 100 A

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Technical data

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.		

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	E60693
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.		

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
eClass 9.1	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.
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

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Technical data

Downloads

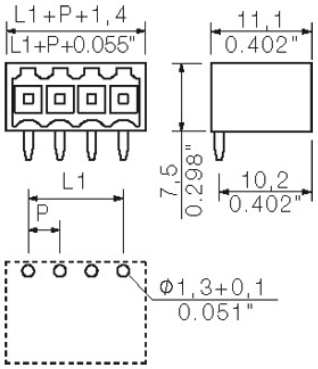
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN FL DRIVES DE
Engineering Data	SL.zip

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Drawings

Dimensional drawing



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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

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued	2014-05-20T00:00:00+02:00	BL 3.50/03/180LH SN BK BX	1687890000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190853440	100 pc(s).
BL 3.50/03/180LH SN OR BX	1687660000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190853211	102 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 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 3.50/03/180F SN OR BX	1606650000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190123062	102 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
Discontinued	2016-04-08T00:00:00+02:00	BL 3.50/03/180F SN OR BX PRT	1740721001	PCB plug-in connector, female	4008190961718	102 pc(s).

OMNIMATE Signal - series BL/SL 3.50
SL 3.50/03/90G 3.2SN OR BX

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Mating connector (conditionally pluggable)

				plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box		
BL 3.50/03/180F SN BK BX	1615790000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190062132	102 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² 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 provide space for labelling and can be coded.

General ordering data

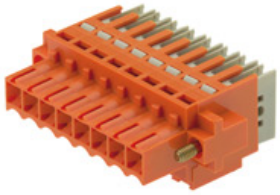
Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/03/90F SN BK BX	1639250000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190276799	108 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/03/90F SN OR BX	1639020000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190276560	108 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

OMNIMATE Signal - series BL/SL 3.50
SL 3.50/03/90G 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

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued	2016-07-08T00:00:00+02:00	BLIDCB 3.50/03/-F SN BK BX	1770750000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm², Box	4032248174539	10 pc(s).
BLIDCB 3.50/03/-F SN OR BX	1751460000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm², Box	4032248174393	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm² UL: 300 V / 7 A / AWG 22 - AWG 20	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 3.50/03/270F SN OR BX	1639940000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190277499	108 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

OMNIMATE Signal - series BL/SL 3.50
SL 3.50/03/90G 3.2SN OR BX

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Mating connector (conditionally pluggable)

BL 3.50/03/270F SN BK BX	1640170000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190277734	108 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

OMNIMATE Signal - series BL/SL 3.50
SL 3.50/03/90G 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 3.50/03/270 SN OR BX	1639480000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190277031	174 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/03/270 SN BK BX	1639710000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190277260	174 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² 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 3.50/03/180 SN BK BX	1615680000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190058906	174 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
Discontinued	BL 3.50/03/180 SN GY BX	1620460000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection,	4008190157159	100 pc(s).	IEC: 320 V / 17 A / 0.2

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Mating connector (fully pluggable)

			Clamping range, rated connection, max.: 1.5 mm², Box		- 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14
BL 3.50/03/180 SN OR BX	1597370000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190169909 174 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/03/180 SN DKGN BX	1606530000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190009274 174 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/03/180 SN OR BX PRT	1740631001	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190961527 174 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 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 pitch. They provide space for labelling and can be coded.

General ordering data

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2016-07-08T00:00:00+02:00	BLIDCB 3.50/03/- SN OR BX	1751390000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, rated connection,	4032248174317	10 pc(s).

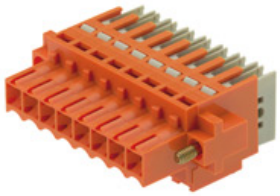
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Mating connector (fully pluggable)

				max.: 0.5 mm², Box		
Discontinued	2014-05-20T00:00:00+02:00	BLIDCB 3.50/03/- SN BK BX	1770680000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm², Box	4032248174461	10 pc(s).

BLIDCB 3.5F BS



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

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued	2010-12-31T00:00:00+01:00	BLIDCB 3.50/03/-FBS SN BK BX	1836450000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm², Box	4032248339051	100 pc(s).

OMNIMATE Signal - series BL/SL 3.50
SL 3.50/03/90G 3.2SN OR BX

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Mating connector (fully pluggable)

BLZF 3.5/180



Female connectors with tension clamp system for connecting cables in 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
BLZF 3.50/03/180 SN OR BX	1690200000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190328696	100 pc(s).	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 26 - 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 3.50/03/90 SN BK BX	1638790000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190276331	174 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/03/90 SN OR BX	1638560000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190276096	174 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

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Accessories

LED Light guides



Effective: the link between LED and front panel.
Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.
The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.
The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers

The result: simplified manufacturing process, reduced costs and simplified design

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL 3.5 FLA 4.0/8	1597530000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190075699	50 pc(s).		Box
SL 3.5 FLA 2.3/8	1597520000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190120566	50 pc(s).		Box
SL 3.5 FLA 2.3/1.75/8	1597640000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190011321	25 pc(s).		Box
SL 3.5 FLA 1.5/1.75/8	1597630000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190148386	50 pc(s).		Box
SL 3.5 FLA 1.5/8	1597510000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190127541	50 pc(s).		Box
SL 3.5 FLA 4.0/1.75/8	1597650000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190027773	50 pc(s).		Box

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Accessories

Additional accessories



No task is too small when creating the perfect solution. br />
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 OR BX	1669310000	PCB plug-in connector, Accessories, Latches, Orange, No. of poles: 1	4008190428488	100 pc(s).	
BL/SL 3.50 VR BK BX	1669300000	PCB plug-in connector, Accessories, Latches, Black, No. of poles: 1	4008190428471	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	Packaging
BL SL 3.5 KO SW	1610100000	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190187637	100 pc(s).		Box

OMNIMATE Signal - series BL/SL 3.50
SL 3.50/03/90G 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

Accessories

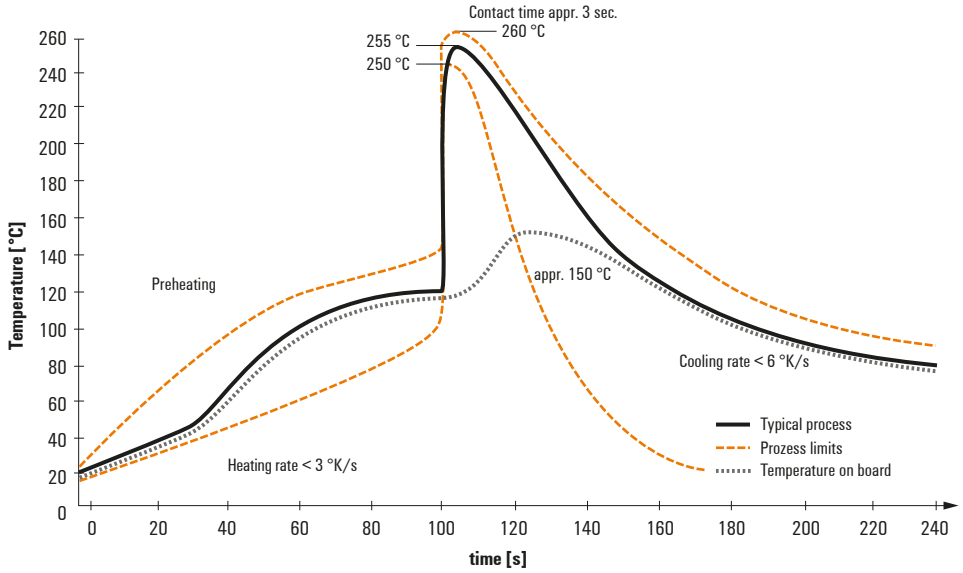
BL SL 3.5 KO OR 1693430000	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190867447 100 pc(s).	Box

Wave Solder Profile

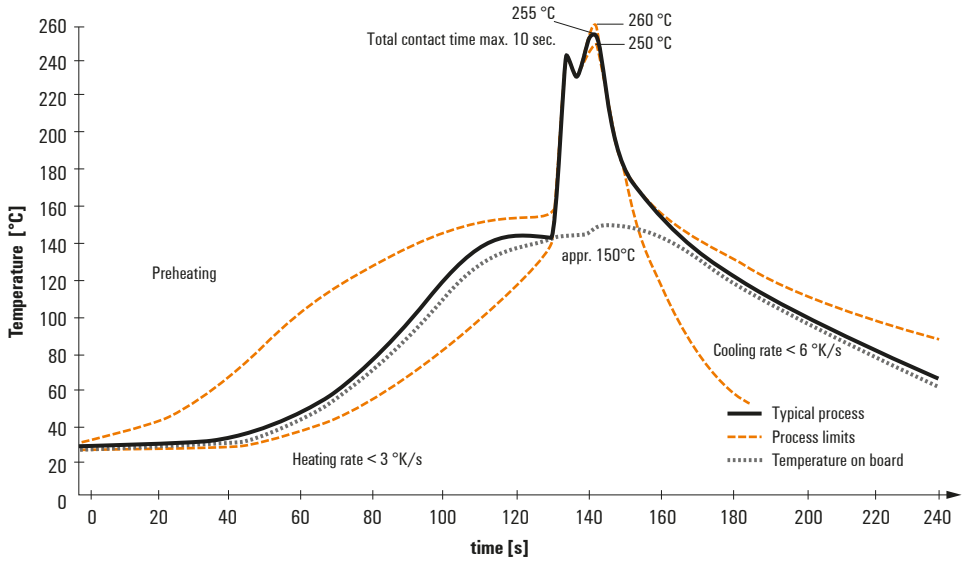
Recommended wave solderding profiles

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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.

We reserve the right to make technical changes.

