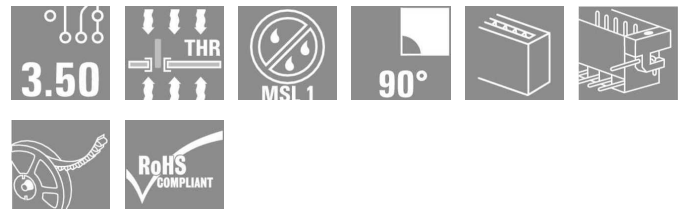


OMNIMATE Signal - series BL/SL 3.50 SL-SMT 3.50/03/90LF 1.5SN BK RL

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Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com



High-temperature-resistant male header, 3.50 mm pitch.

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

General ordering data

Type	SL-SMT 3.50/03/90LF 1.5SN BK RL
Order No.	1805320000
Version	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, No. of poles: 3, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Tape (Ø 330 mm); Rs = 10 ⁹ - 10 ¹² Ω
GTIN (EAN)	4032248269570
Qty.	385 pc(s).
Product data	IEC: 320 V / 15 A UL: 300 V / 10 A
Packaging	Tape (Ø 330 mm); Rs = 10 ⁹ - 10 ¹² Ω

OMNIMATE Signal - series BL/SL 3.50 SL-SMT 3.50/03/90LF 1.5SN BK RL

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Technical data

Dimensions and weights

Net weight	2.62 g
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System specifications

Product family	OMNIMATE Signal - series BL/SL 3.50	Type of connection	Solder connection
Mounting onto the PCB	THT/THR 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)	1.5 mm	Solder pin length tolerance	0 / -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)	1.4 mm
Solder eyelet hole diameter tolerance (D)+	0.1 mm	Outside diameter of solder pad	2.3 mm
Template aperture diameter	2.1 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	4.50 mΩ
Can be coded	Yes	Plugging cycles	25
push-in force/pole	4 N	Withdrawal force per pole	4 N
Packaging	Tape (Ø 330 mm); Rs = 10 ⁹ - 10 ¹² Ω		

Material data

Insulating material	LCP GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	≥ 175	Insulation resistance	≥ 10 ⁸ Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	CuSn	Contact surface	tinned
Layer structure of solder connection	2-3 µm Ni / 5-7 µm Sn	Layer structure of plug contact	2-3 µm Ni / 5-7 µm Sn
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)	15 A
Rated current, max. no. of poles (Ta = 20°C)	12 A	Rated current, min. no. of poles (Ta = 40°C)	13 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

**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/90LF 1.5SN BK RL**

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Technical data**Rated data acc. to CSA**

Institute (CSA)



Certificate No. (CSA)

200039-1176845

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

- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 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

OMNIMATE Signal - series BL/SL 3.50 SL-SMT 3.50/03/90LF 1.5SN BK RL

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Technical data

Downloads

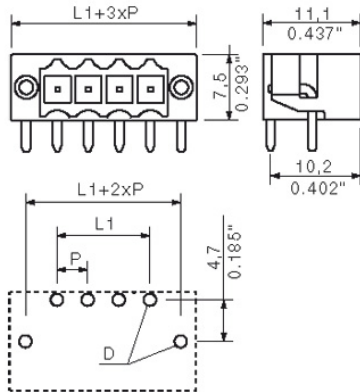
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN FL DRIVES DE
Engineering Data	SL-SMT.zip
SMT white paper	Download Whitepaper

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Drawings

Dimensional drawing



Example of use



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Mating connector (fully 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 mm ² , Box	4032248174539	10 pc(s).
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, rated connection, max.: 0.5 mm ² , Box	4032248174393	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 3.50/03/90F 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 mm ² , Box	4008190276799	108 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-SMT 3.50/03/90LF 1.5SN BK RL

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Mating connector (fully pluggable)

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
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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 plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190961718	102 pc(s).
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

OMNIMATE Signal - series BL/SL 3.50 SL-SMT 3.50/03/90LF 1.5SN BK RL

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Mating connector (fully 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	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 3.50/270F



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-SMT 3.50/03/90LF 1.5SN BK RL

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Mating connector (fully pluggable)BL [1640170000](#)

3.50/03/270F

SN BK BX

PCB plug-in connector, 4008190277734 108 pc(s).
female plug, 3.50 mm, No.
of poles: 3, 270°, Clamping
yoke connection, Clamping
range, rated connection,
max.: 1.5 mm², Box

IEC: 320 V / 12 A / 0.2 - 1.5 mm² Box
UL: 300 V / 8 A / AWG 28 - AWG 14

OMNIMATE Signal - series BL/SL 3.50 SL-SMT 3.50/03/90LF 1.5SN BK RL

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Mating connector (conditionally pluggable)

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, max.: 0.5 mm², Box	4032248174317	10 pc(s).
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).

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	4008190277031	174 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-SMT 3.50/03/90LF 1.5SN BK RL

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Mating connector (conditionally pluggable)

		range, rated connection, max.: 1.5 mm ² , Box			
BL	1639710000	PCB plug-in connector,	4008190277260 174 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/03/270		female plug, 3.50 mm, No.		UL: 300 V / 8 A / AWG 28 - AWG 14	
SN BK BX		of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , 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	1638560000	PCB plug-in connector,	4008190276096 174 pc(s).		IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/03/90		female plug, 3.50 mm, No.			UL: 300 V / 8 A / AWG 28 - AWG 14	
SN OR BX		of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box				
BL	1638790000	PCB plug-in connector,	4008190276331 174 pc(s).		IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
3.50/03/90		female plug, 3.50 mm, No.			UL: 300 V / 8 A / AWG 28 - AWG 14	
SN BK BX		of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box				

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,	4032248339051	100 pc(s).

OMNIMATE Signal - series BL/SL 3.50

SL-SMT 3.50/03/90LF 1.5SN BK RL

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Mating connector (conditionally pluggable)

No. of poles:
 3, 90°/270°,
 IDC terminal,
 Clamping range,
 rated connection,
 max.: 0.5 mm²,
 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 DKGX 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 mm ² , Box	4008190009274	174 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/03/180 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 mm ² , Box	4008190169909	174 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/03/180 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 mm ² , Box	4008190058906	174 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² 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, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190157159	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A /	

OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/90LF 1.5SN BK RL

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Mating connector (conditionally pluggable)

					AWG
					28
					-
					AWG
					14
BL	1740631001	PCB plug-in connector,	4008190961527 174 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm²	Box
3.50/03/180		female plug, 3.50 mm, No.		UL: 300 V / 10 A / AWG 28 - AWG 14	
SN OR BX PRT		of poles: 3, 180°, Clamping			
		yoke connection, Clamping			
		range, rated connection,			
		max.: 1.5 mm², Box			

OMNIMATE Signal - series BL/SL 3.50 SL-SMT 3.50/03/90LF 1.5SN BK RL

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Accessories

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 OR	1693430000	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190867447	100 pc(s).		Box
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-SMT 3.50/03/90LF 1.5SN BK RL

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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

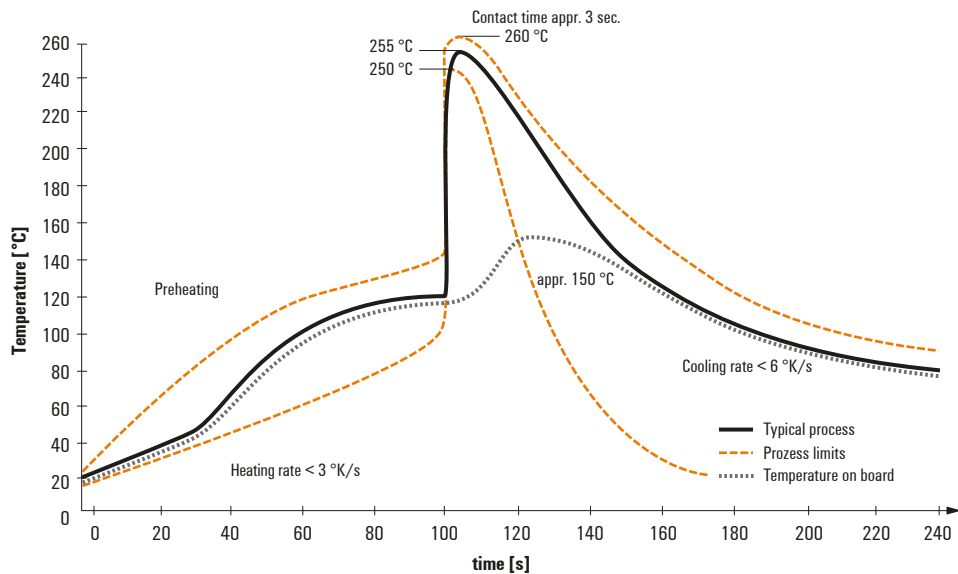
General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL 3.5 FLA 2.3/1.75/8	1597640000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	400819001132125	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	400819014838650	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	400819002777350	pc(s).		Box
SL 3.5 FLA 2.3/8	1597520000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	400819012056650	pc(s).		Box
SL 3.5 FLA 4.0/8	1597530000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	400819007569950	pc(s).		Box
SL 3.5 FLA 1.5/8	1597510000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	400819012754150	pc(s).		Box

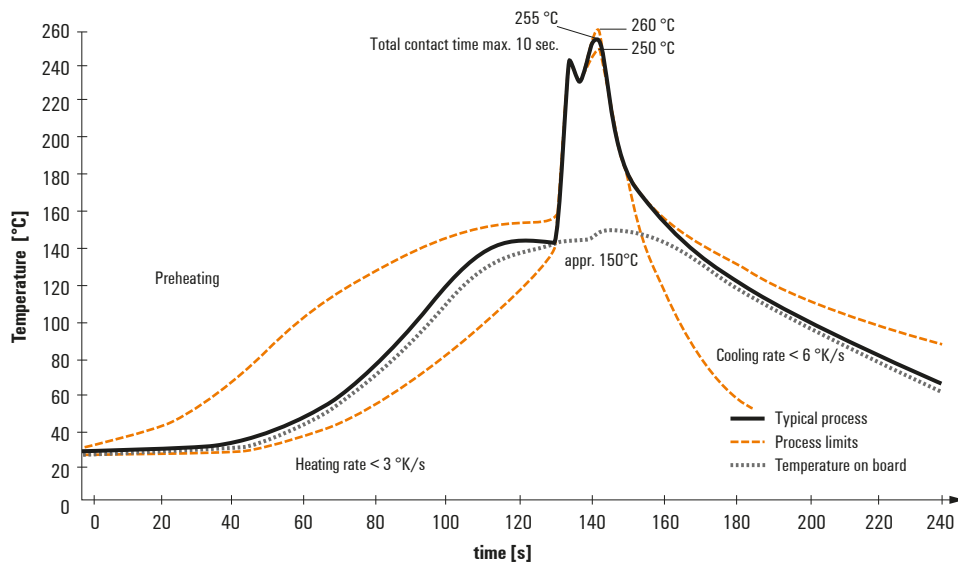
Recommended wave soldering profiles

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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:

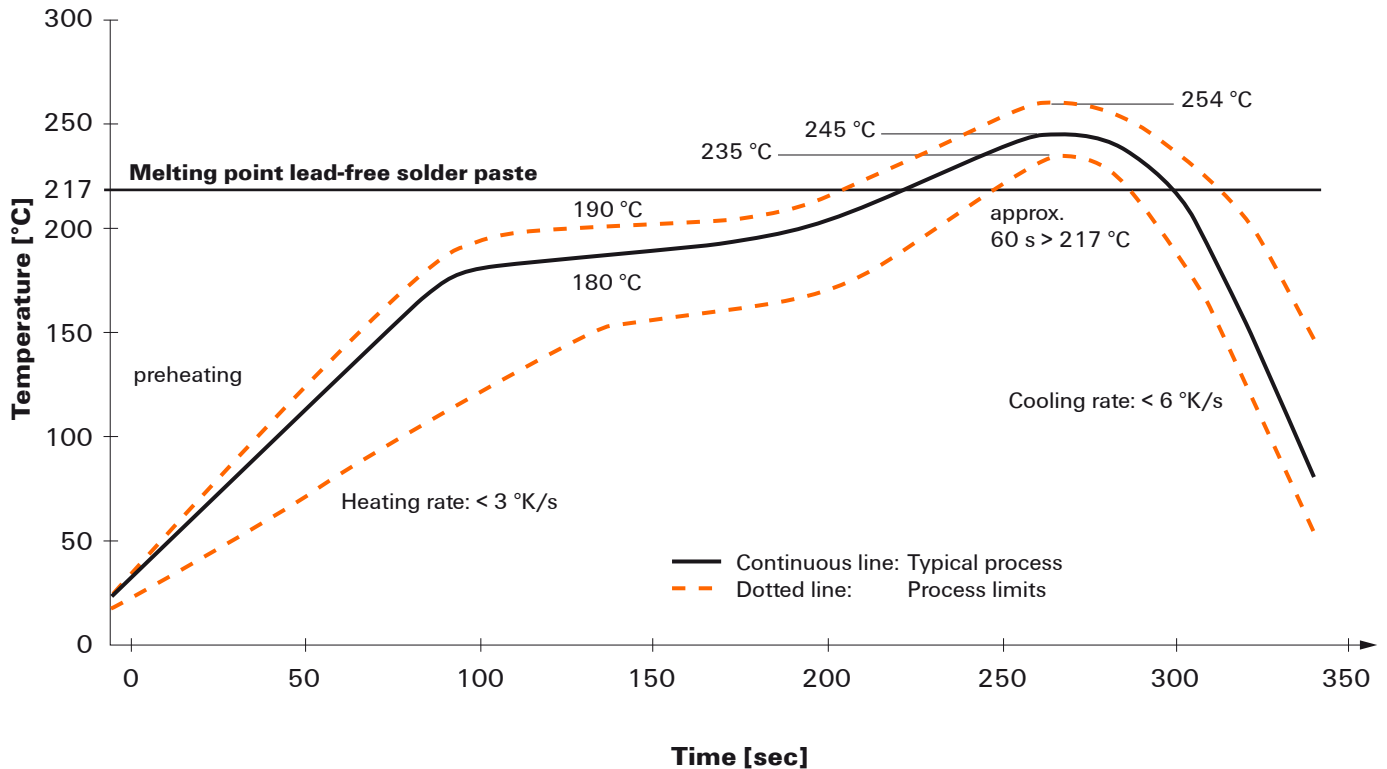
- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

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.

We reserve the right to make technical changes.

Recommended reflow soldering profile

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Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3\text{K/s}$. In parallel the solder paste is 'activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at $\geq -6\text{K/s}$ solder is cured. Board and components cool down while avoiding cold cracks.

