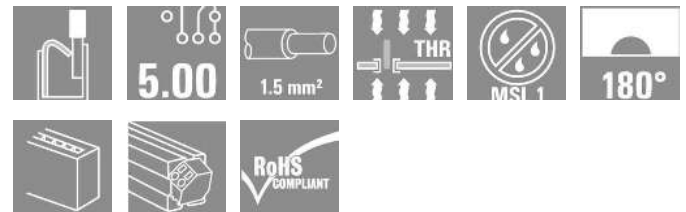


## OMNIMATE Signal - series LSF

### LSF-SMT 5.00/04/180 1.5SN BK TU

**Weidmüller Interface GmbH & Co. KG**  
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 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



PCB terminal for fully automatic assembly in reflow soldering (SMT), with Push In conductor connection system. Conductor inserted and slider operated in same direction (TOP). Packed in box or as tape on reel. Pin lengths optimised at 1.5 mm or 3.5 mm.

- 0.20 - 1.5 mm<sup>2</sup> (IEC) / 24 - 16 AWG (UL)
- 500 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 12 A (UL)

#### General ordering data

Type	LSF-SMT 5.00/04/180 1.5SN BK TU
Order No.	<a href="#">1870160000</a>
Version	PCB terminal, 5.00 mm, No. of poles: 4, 180°, Solder pin length (l): 1.5 mm, tinned, Black, PUSH IN, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Tube; Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω
GTIN (EAN)	4032248447190
Qty.	28 pc(s).
Product data	IEC: 500 V / 17.5 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 12 A / AWG 24 - AWG 16
Packaging	Tube; Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω

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

Net weight	3.75 g
------------	--------

**System parameters**

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN
Mounting onto the PCB	Reflow solder connection	Conductor outlet direction	180°
Pitch in mm (P)	5 mm	Pitch in inches (P)	0.197 inch
No. of poles	4	Fitted by customer	No
Solder pin length (l)	1.5 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.35 x 0.8 mm	Solder pin dimensions = d tolerance	0 / -0.1 mm
Solder eyelet hole diameter (D)	1.1 mm	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm
Number of solder pins per pole	2	Stripping length	8 mm
L1 in mm	15 mm	L1 in inches	0.591 inch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Volume resistance	1.60 mΩ		

**Material data**

Insulating material	LCP GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	≥ 175	Insulation resistance	≥ 10 <sup>8</sup> Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Cu-Leg	Contact surface	tinned
Coating	4-6 μm SN	Tinning type	matt
Layer structure of solder connection	4-6 μm Sn matt	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-30 °C	Temperature range, installation, max.	120 °C

**Conductors suitable for connection**

Clamping range, rated connection, min.	0.13 mm <sup>2</sup>	Clamping range, rated connection, max.	1.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 24	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>	Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>	Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min	0.25 mm <sup>2</sup>	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>

**Rated data acc. to IEC 60664-1 / IEC 61984**

Rated current, min. no. of poles (Ta = 20°C)	17.5 A	Rated current, max. no. of poles (Ta = 20°C)	17.5 A
Rated current, min. no. of poles (Ta = 40°C)	17.5 A	Rated current, max. no. of poles (Ta = 40°C)	15 A
Rated voltage for surge voltage class / pollution degree II/2	500 V	Rated voltage for surge voltage class / pollution degree III/2	320 V
Rated voltage for surge voltage class / pollution degree III/3	250 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV
Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV
Short-time withstand current resistance	3 x 1s with 80 A		

Creation date August 12, 2015 6:34:17 PM CEST

**OMNIMATE Signal - series LSF**  
**LSF-SMT 5.00/04/180 1.5SN BK TU**

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

Institute (CSA)



Certificate No. (CSA)

200039-1664286

Hinweis zu den Zulassungswerten

Angaben sind  
Maximalwerte, Details  
siehe Zulassungs-  
Zertifikat.

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

Wire cross-section, AWG, min.

AWG 24

Wire cross-section, AWG, max.

AWG 16

**Rated data acc. to UL 1059**

Institute (cURus)



Certificate No. (cURus)

E60693

Hinweis zu den Zulassungswerten

Angaben sind  
Maximalwerte, Details  
siehe Zulassungs-  
Zertifikat.

Rated voltage (use group B)

300 V

Rated voltage (use group D)

300 V

Rated current (use group B)

12 A

Rated current (use group D)

10 A

Wire cross-section, AWG, min.

AWG 24

Wire cross-section, AWG, max.

AWG 16

**Classifications**

ETIM 3.0

EC001284

ETIM 4.0

EC002643

ETIM 5.0

EC002643

ETIM 6.0

EC002643

UNSPSC

30-21-18-11

eClass 5.1

27-26-11-01

eClass 6.2

27-26-11-01

eClass 7.1

27-44-04-01

eClass 8.1

27-44-04-01

eClass 9.0

27-44-04-01

**Notes**

Notes

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- 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.
- Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

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.

**Data sheet****OMNIMATE Signal - series LSF**  
**LSF-SMT 5.00/04/180 1.5SN BK TU****Weidmüller Interface GmbH & Co. KG**  
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Approvals



ROHS

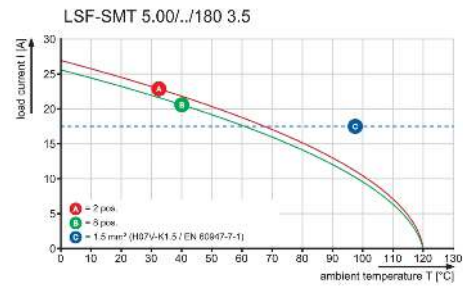
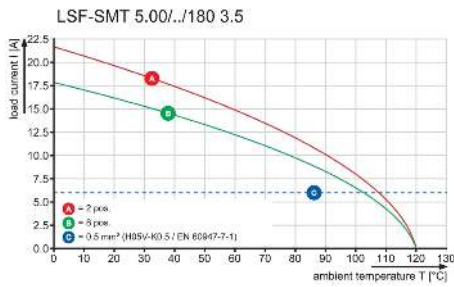
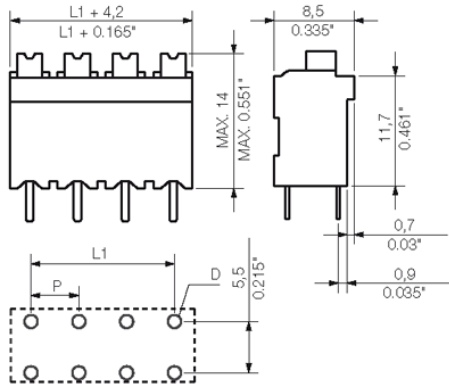
Conform

**Downloads**CAD Library (P-CAD Format - ASCII) [LSF-SMT.zip](#)CAD Library (P-CAD Format - Standard) [LSF-SMT.zip](#)[3-D model](#)

**OMNIMATE Signal - series LSF**  
**LSF-SMT 5.00/04/180 1.5SN BK TU**

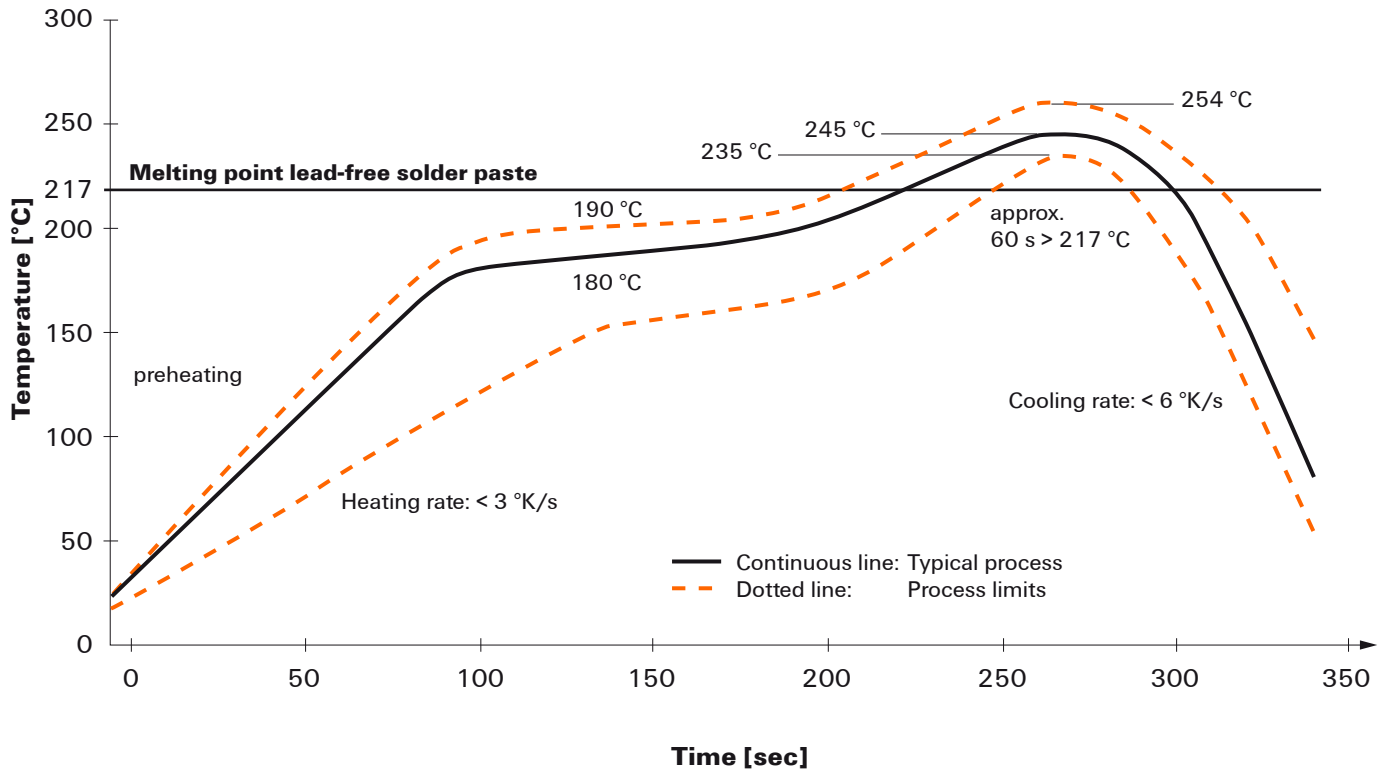
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**Drawings**



## 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  $217^\circ\text{C}$  the paste gets liquid and components and boards begin to connect. The maximum temperature of  $245^\circ\text{C}$  to  $254^\circ\text{C}$  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.

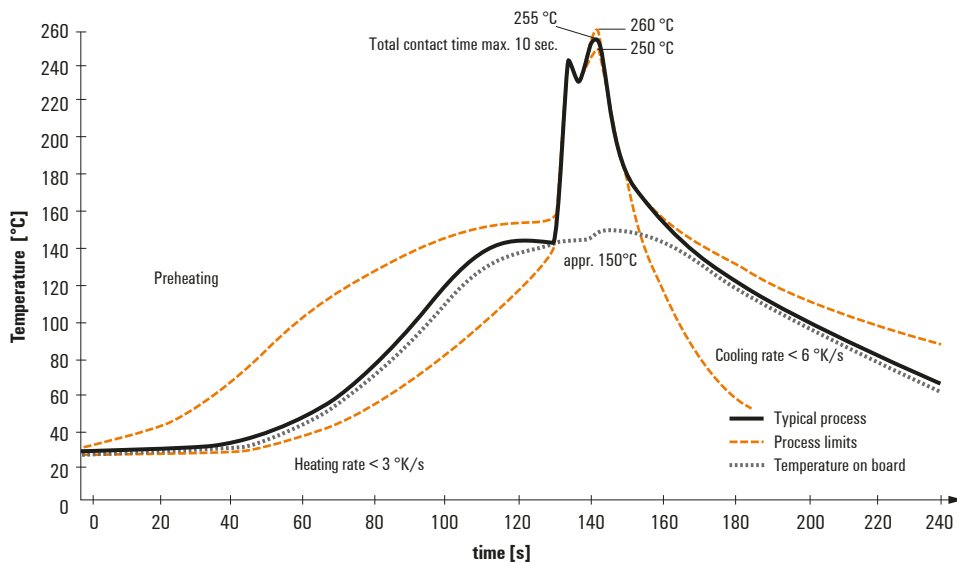
## Recommended wave soldering profiles

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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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