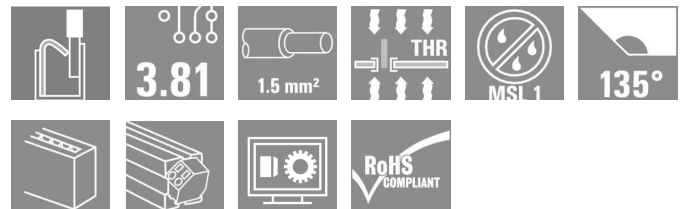


OMNIMATE Signal - series LSF
LSF-SMT 3.81/02/135 3.5SN BK TU

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Product picture



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 mm² (IEC) / 24 - 16 AWG (UL)
- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 12 A (UL)

General ordering data

Type	LSF-SMT 3.81/02/135 3.5SN BK TU
Order No.	1885880000
Version	PCB terminal, 3.81 mm, No. of poles: 2, 135°, Solder pin length (l): 3.5 mm, Black, PUSH IN, Clamping range, rated connection, max.: 1.5 mm ² , Tube; Rs = 10 ⁹ - 10 ¹² Ω
GTIN (EAN)	4032248490790
Qty.	69 pc(s).
Product data	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 12 A / AWG 24 - AWG 16
Packaging	Tube; Rs = 10 ⁹ - 10 ¹² Ω

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Technical data

Dimensions and weights

Net weight 2 g

System parameters

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN
Mounting onto the PCB	THT/THR solder connection	Conductor outlet direction	135°
Pitch in mm (P)	3.81 mm	Pitch in inches (P)	0.15 inch
No. of poles	2	Fitted by customer	No
Solder pin length (l)	3.5 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	3.81 mm	L1 in inches	0.15 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	IIla
CTI	≥ 175	Insulation resistance	≥ 10 ⁸ Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Cu-Leg	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 ²	Clamping range, rated connection, max.	1.5 mm ²
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 ²	Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²

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Technical data

Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

Rated current, max. no. of poles (Ta = 20°C)

16 A

Rated current, max. no. of poles (Ta = 40°C)

14 A

Rated voltage for surge voltage class / pollution degree III/2

160 V

Rated impulse voltage for surge voltage class/ pollution degree II/2

2.5 kV

Rated impulse voltage for surge voltage class/ contamination degree III/3

2.5 kV

Rated current, min. no. of poles (Ta = 20°C)

17.5 A

Rated current, min. no. of poles (Ta = 40°C)

17.5 A

Rated voltage for surge voltage class / pollution degree II/2

320 V

Rated voltage for surge voltage class / pollution degree III/3

160 V

Rated impulse voltage for surge voltage class/ pollution degree III/2

2.5 kV

Short-time withstand current resistance

3 x 1s with 80 A

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1664286

Rated voltage (Use group B)

300 V

Rated current (use group B)

10 A

Wire cross-section, AWG, min.

AWG 24

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

Wire cross-section, AWG, max.

AWG 16

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (use group B)

300 V

Rated current (use group B)

12 A

Wire cross-section, AWG, min.

AWG 24

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

Wire cross-section, AWG, max.

AWG 16

Classifications

ETIM 3.0

EC001284

ETIM 5.0

EC002643

UNSPSC

30-21-18-11

eClass 6.2

27-26-11-01

eClass 8.1

27-44-04-01

eClass 9.1

27-44-04-01

ETIM 4.0

EC002643

ETIM 6.0

EC002643

eClass 5.1

27-26-11-01

eClass 7.1

27-44-04-01

eClass 9.0

27-44-04-01

OMNIMATE Signal - series LSF

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Technical data

Notes

Notes

- Additional push button colours on request
- Operating force of slider max. 40 N
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- 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.

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[EPLAN, WSCAD](#)

SMT white paper

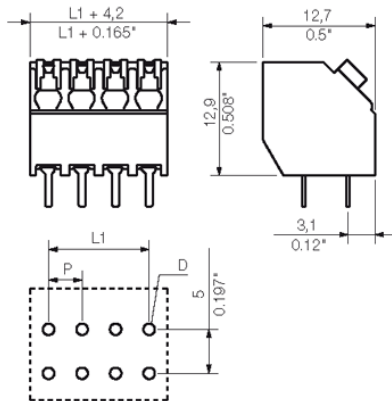
[Download Whitepaper](#)

OMNIMATE Signal - series LSF LSF-SMT 3.81/02/135 3.5SN BK TU

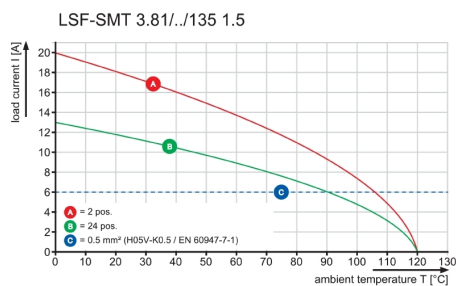
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Drawings

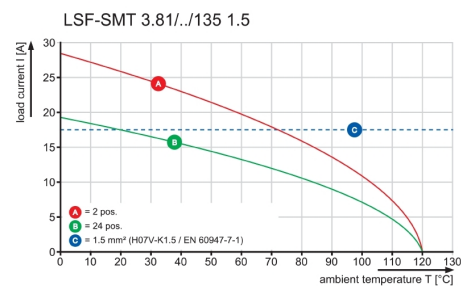
Dimensional drawing



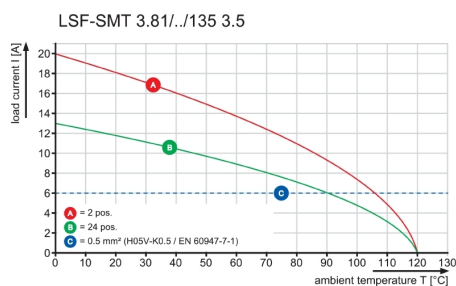
Graph



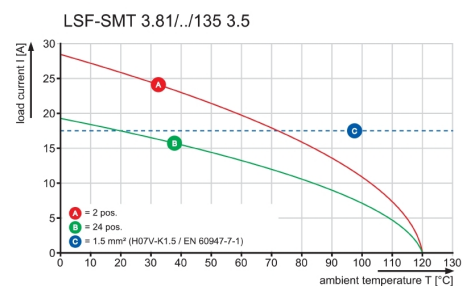
Graph



Graph



Graph



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.

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