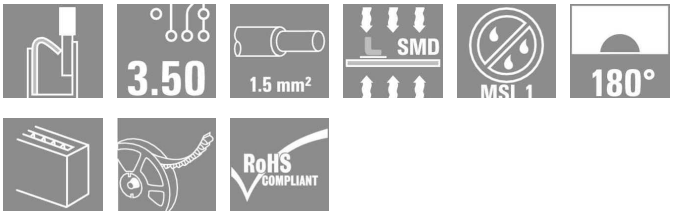
OMNIMATE Signal - series LSF
LSF-SMD 3.50/04/180 SN BK RL

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com





The innovative quick connector - simple, safe and economical:
PCB terminals with spring connection and direct PUSH IN technology. A milestone in connection technology. Amazingly simple and simply amazing in practice:

- Connect and easily detach solid wires or wires with wire-end ferrules without using tools
- Processed automatically in the reflow or vapour phase
- Potentials and clamping points marked clearly by coloured push buttons

World-class design-in and processing phases, and suitable for a vast range of applications.**PCB terminal for fully automatic assembly using reflow soldering (SMD), with PUSH IN wire connections. Conductor inserted and slider operated in same direction (TOP).**

- **Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.**
- **When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point**
- **Intuitive handling – since the wire-entry area and handling area are clearly separated.**
- **Packaged in tape-on-reel**
- **Conductor outlet direction 180°**

General ordering data

Type	LSF-SMD 3.50/04/180 SN BK RL
Order No.	1250380000
Version	PCB terminal, 3.50 mm, No. of poles: 4, 180°, tinned, Black, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm², Tape
GTIN (EAN)	4050118041187
Qty.	180 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	Tape

Erstellungs-Datum December 20, 2013 7:54:18 AM CET

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Technische Daten

Dimensions and weights

Net weight	3.212 g

System characteristics

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN spring connection
Mounting onto the PCB	Reflow solder connection	Conductor outlet direction	180°
Pitch in mm (P)	3.5 mm	Pitch in inches (P)	0.138 inch
No. of poles	4	Fitted by customer	No
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	10.5 mm	L1 in inches	0.414 inch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	LCP GF	Colour	Black
UL 94 flammability rating	V-0	CTI	≥ 175
Contact material	Cu-Leg	Contact surface	tinned
Contact base material	Cu-Leg		

Connectable conductors

Clamping range, rated connection, min.	0.13 mm²	Clamping range, rated connection, max.	1.5 mm²
Wire connection cross section AWG, min.	AWG 24	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm²	Solid, max. H05(07) V-U	1.5 mm²
Flexible, min. H05(07) V-K	0.2 mm²	Flexible, max. H05(07) V-K	1.5 mm²
w. wire end ferrule, DIN 46228 pt 1, min	0.25 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm²

DIN IEC rating data

Rated current, min. no. of poles (TU=20°C)	17.5 A	Rated current, max. no. of poles (Tu=20°C)	16 A
Rated current, number of poles (Tu=40°C), min	17.5 A	Rated current, number of poles (Tu=40°C), max.	14 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 classpollution degree II/2	2.5 kV
Rated impulse voltage for surge voltage classpollution degree III/2	2.5 kV	Rated impulse voltage for surge voltage classcontamination degree III/3	2.5 kV
Short-time withstand current resistance	3 x 1s with 80 A		

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CSA rating data

Institute (CSA)		Rated voltage (Use group B)	300 V
Rated current (use group B)	10 A	Rated voltage (use group D)	300 V
Rated current (use group D)	10 A	Wire cross-section, AWG, min.	AWG 24
Wire cross-section, AWG, max.	AWG 16		

UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	12 A
Rated voltage (use group D)	300 V	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	eClass 6.2	27-26-11-01
eClass 7.1	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.

Approvals

Approvals



ROHS	Conform

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Zeichnungen

