OMNIMATE Signal - series LSF
LSF-SMD 3.50/12/180 SN BK RL

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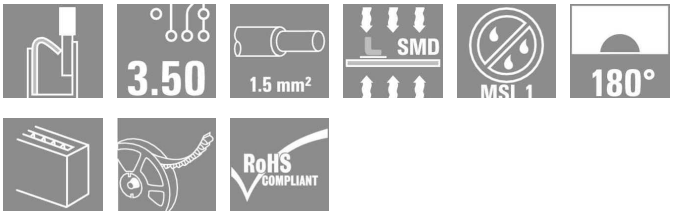

The innovative quick connector - simple, safe and economical:
PCB terminals with spring connection and direct PUSH IN technology. A milestone in connection technology. Amazingly simple and simply amazing in practice:

- 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 3.50/12/180 SN BK RL
Order No.	1250470000
Version	PCB terminal, 3.50 mm, No. of poles: 12, 180°, tinned, Black, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm², Tape
GTIN (EAN)	4050118041064
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 7:56:33 AM CET

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Technische Daten

Dimensions and weights

Net weight	9.636 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	12	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	38.5 mm	L1 in inches	1.518 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

