

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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1



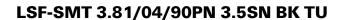
Your special benefits

- Cost-effective alternative to RJ45 and M12 connections
- Ethernet-compliant data transmission e.g. for PROFINET applications (Cat. 5, up to 100 Mbps)
- Proven PUSH IN wire connection
- Suitable for THT (LMF) and THR (LSF-SMT)soldering process
- \bullet Suitable for data transmission according to ISO / IEC 11801-1; DIN EN 50173-1 (VDE 0800-173-1) and ANSI/ TIA-568-B.2-10
- Wide range of applications for all IIoT devices

General ordering data

Version	Printed circuit board terminals, 3.81 mm, Number of poles: 4, 90°, Solder pin length (I): 3.5 mm, tinned, black, PUSH IN with push button, Clamping range, max.: 1.5 mm², Tube
Order No.	<u>2639530000</u>
Туре	LSF-SMT 3.81/04/90PN 3.5SN BK TU
GTIN (EAN)	4050118657296
Qty.	35 items
Product data	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 12 A / AWG 28 - AWG 14
Packaging	Tube







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Technical data

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Approvals (ESSUS

ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	14.75 mm	Depth (inches)	0.5807 inch
Height	12 mm	Height (inches)	0.4724 inch
Height of lowest version	8.5 mm	Net weight	2.87 g

Temperatures

Continuous operating temp., max. 120 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System specifications

Number of poles	4
Solder pin length (I)	3.5 mm
Mounting onto the PCB	THT/THR solder connection
Pitch in inches (P)	0.150 "
Side termination, characteristic	closed side
Solder eyelet hole diameter tolerance	(D)+ 0,1 mm
Transmission rate	10 / 100 Mbps
Number of solder pins per pole	2
Solder eyelet hole diameter (D)	1.1 mm
Category	Cat. 5
Product family	OMNIMATE Signal - series LSF
Pitch in mm (P)	3.81 mm
Protection degree	IP20
Performance-Category	Cat. 5 10 / 100 Mbps
Soldering process	Reflow soldering, Manual soldering, Wave soldering
Solder pin dimensions	0.35 x 0.8 mm
Solder pin length tolerance	Lower tolerance with prefix (reveals minimum) -0.3
	Upper tolerance with prefix (reveals maximum) 0
	Tolerance, unit mm
Solder pin length tolerance	0 / -0.3 mm
Solder pin dimensions = d tolerance	Lower tolerance with prefix (reveals minimum) -0.1
	Upper tolerance with prefix (reveals maximum) 0
	Tolerance, unit mm

Electrical properties

Volume resistance	$1.60~\text{m}\Omega$





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Material data

LCP GF	Colour	black
RAL 9011	Insulating material group	Illa
≥ 175	Moisture Level (MSL)	1
V-0	Contact material	Copper alloy
tinned	Layer structure of solder connection	46 µm Sn matt
-40 °C	Storage temperature, max.	70 °C
-50 °C	Operating temperature, max.	120 °C
-30 °C	Temperature range, installation, max.	120 °C
	RAL 9011 ≥ 175 V-0 tinned -40 °C -50 °C	RAL 9011 Insulating material group ≥ 175 Moisture Level (MSL) V-0 Contact material tinned Layer structure of solder connection -40 °C Storage temperature, max. -50 °C Operating temperature, max.

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	1.5 mm ²
Wire connection cross section AWG, min.	AWG 28
Wire connection cross section AWG, max.	AWG 14
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 min.	4, 0.25 mm ²
	4.0.75

w. plastic collar ferrule, DIN 46228 pt 4, 0.75 mm²

max. w. wire end ferrule, DIN 46228 pt 1, 0.25 mm²

w. wire end ferrule, DIN 46228 pt 1, 1.5 mm² max.

Clampable conductor	r

min.

Cross-section for conductor connection	Туре	fine-wired
	nominal	0.25 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H0,25/12 HBL
Cross-section for conductor connection	Туре	fine-wired
	nominal	0.34 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H0,34/12 TK
Cross-section for conductor connection	Туре	fine-wired
	nominal	0.5 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H0,5/14 OR
Cross-section for conductor connection	Туре	fine-wired
	nominal	0.75 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H0,75/14T HBL

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P)

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	17.5 A

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4

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Technical data

Rated current, max. number of poles 14 A (Tu=40°C)	Rated voltage for surge voltage class / 320 V pollution degree II/2
Rated voltage for surge voltage class / 160 V pollution degree III/2	Rated voltage for surge voltage class / 160 V pollution degree III/3
Rated impulse voltage for surge voltage 2.5 kV class/ pollution degree II/2	Rated impulse voltage for surge voltage 2.5 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 2.5 kV class/ contamination degree III/3	Short-time withstand current resistance 3 x 1s with 80 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	12 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

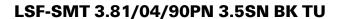
Packaging	Tube	VPE length	557.00 mm
VPE width	20.00 mm	VPE height	15.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03	
	Test	mark of origin, type identification, pitch, durability	
	Evaluation	available	
	Test	approval marking UL	
	Evaluation	on packaging label	
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02	
	Conductor type	Type of conductor solid 0.14 mm ² and conductor cross-section	
		Type of conductor stranded 0.14 mm ² and conductor cross-section	
		Type of conductor solid 1.5 mm ² and conductor cross-section	
		Type of conductor stranded 1.5 mm ² and conductor cross-section	
		Type of conductor AWG 24/1 and conductor cross-section	
		Type of conductor AWG 24/19 and conductor cross-section	
		Type of conductor AWG 16/1 and conductor cross-section	

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		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
loosening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor stranded 0.25 mm ² and conductor cross-section
		Type of conductor solid 0.5 mm ² and conductor cross-section
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	Type of conductor solid 1.5 mm ² and conductor cross-section
		Type of conductor stranded 1.5 mm ² and conductor cross-section
		Type of conductor AWG 16/1 and conductor cross-section
		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation passed	
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥10 N
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥20 N
	Conductor type	Type of conductor stranded 0.25 mm ² and conductor cross-section
		Type of conductor H05V-U0.5 and conductor cross-section
	Evaluation	passed
	Requirement	≥40 N
	Conductor type	Type of conductor H07V-U1.5 and conductor cross-section
		Type of conductor H07V-K1.5 and conductor cross-section
		Type of conductor AWG 16/1 and conductor cross-section





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Technical data

	Type of conductor AWG 16/19 and conductor cross-section	
Evaluation	passed	

Important note

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
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 recommended.
- \bullet Long term storage of the product with average temperature of 50 $^{\circ}\text{C}$ and maximum humidity 70%, 36 months

Classifications

ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 9.0	27-44-04-01
ECLASS 9.1	27-44-04-01	ECLASS 10.0	27-44-04-01
ECLASS 11.0	27-46-01-01	ECLASS 12.0	27-46-01-01
ECLASS 13.0	27-46-01-01	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		



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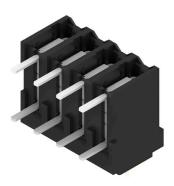
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Drawings

Product image



LSF-SMT 3.81/04/90PN 3.5SN BK TU

Dimensioned drawing

