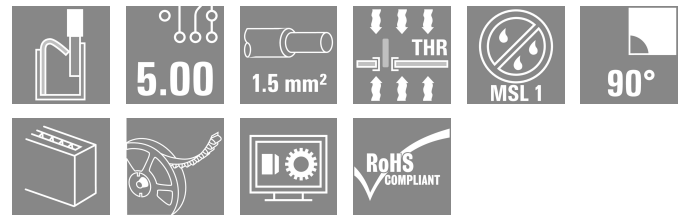
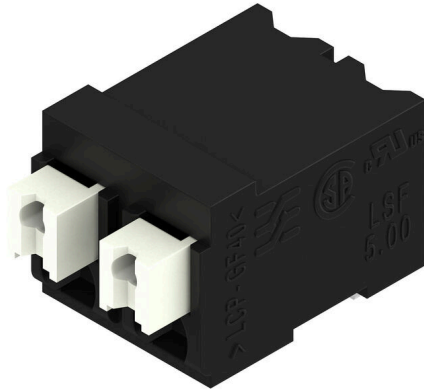


LSF-SMT 5.00/02/90 1.5SN BK RL

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Product image



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.

General ordering data

Version	Printed circuit board terminals, 5.00 mm, Number of poles: 2, 90°, Solder pin length (l): 1.5 mm, black, PUSH IN with push button, Clamping range, max.: 1.5 mm ² , Tape
Order No.	1876240000
Type	LSF-SMT 5.00/02/90 1.5SN BK RL
GTIN (EAN)	4032248466719
Qty.	265 items
Product data	IEC: 500 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 12 A / AWG 28 - AWG 14
Packaging	Tape

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	14.75 mm	Depth (inches)	0.5807 inch
Height	10 mm	Height (inches)	0.3937 inch
Height of lowest version	8.5 mm	Width	9.2 mm
Width (inches)	0.3622 inch	Net weight	2.25 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 parameters

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN with push button
Mounting onto the PCB	THT/THR solder connection	Conductor outlet direction	90°
Pitch in mm (P)	5.00 mm	Pitch in inches (P)	0.197 "
Number of poles	2	Pin series quantity	1
Fitted by customer	No	Number of rows	1
Solder pin length (l)	1.5 mm	Solder pin length tolerance	0 / -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	5.00 mm	L1 in inches	0.197 "
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Protection degree	IP20	Volume resistance	1.60 mΩ

Material data

Insulating material	LCP GF	Colour	black
Colour of operational elements	white	Colour chart (similar)	RAL 9011
Insulating material group	IIIa	Comparative Tracking Index (CTI)	≥ 175
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Copper alloy	Layer structure of solder connection	4...6 μm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-30 °C	Temperature range, installation, max.	120 °C

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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 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

Clampable conductor	Cross-section for conductor connection	Type	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		Type	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		Type	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		Type	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 60947-7-4	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	17.5 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=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

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Technical data

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1664286
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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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

ESD Level packaging	static dissipative	Packaging	Tape
VPE length	332.00 mm	VPE width	332.00 mm
VPE height	39.00 mm	Tape depth (T2)	13.00 mm
Tape width (W)	32 mm	Tape pocket depth (K0)	12.50 mm
Tape pocket height (AO)	14.40 mm	Tape pocket width (B0)	9.50 mm
Tape pocket separation (P1)	20.00 mm	Tape hole separation (E)	1.75 mm
Tape pocket separation (F)	14.20 mm	Tape reel diameter \varnothing (A)	330 mm
Surface resistance	Rs = 109 - 1012 Ω		

Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03	
	Test	mark of origin, type identification, pitch, approval marking UL, durability	
	Evaluation	available	
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 and conductor cross-section	solid 0.14 mm ²
		Type of conductor and conductor cross-section	stranded 0.14 mm ²
		Type of conductor and conductor cross-section	solid 1.5 mm ²
		Type of conductor and conductor cross-section	stranded 1.5 mm ²
		Type of conductor and conductor cross-section	AWG 24/1
		Type of conductor and conductor cross-section	AWG 26/19
		Type of conductor and conductor cross-section	AWG 16/1

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		Type of conductor and conductor cross-section	AWG 16/19	
Test for damage to and accidental loosening of conductors	Evaluation	passed		
	Standard	DIN EN 60999-1 section 9.4 / 12.00		
	Requirement	0.2 kg		
	Conductor type	Type of conductor and conductor cross-section	AWG 24/1	
		Type of conductor and conductor cross-section	AWG 24/19	
	Requirement	0.3 kg		
	Conductor type	Type of conductor and conductor cross-section	stranded 0.25 mm ²	
		Type of conductor and conductor cross-section	solid 0.5 mm ²	
	Evaluation	passed		
	Requirement	0.4 kg		
Conductor type	Type of conductor and conductor cross-section	solid 1.5 mm ²		
	Type of conductor and conductor cross-section	stranded 1.5 mm ²		
	Type of conductor and conductor cross-section	AWG 16/1		
	Type of conductor and conductor cross-section	AWG 16/19		
Pull-out test	Evaluation	passed		
	Standard	DIN EN 60999-1 section 9.5 / 12.00		
	Requirement	≥10 N		
	Conductor type	Type of conductor and conductor cross-section	AWG 24/1	
		Type of conductor and conductor cross-section	AWG 24/19	
	Evaluation	passed		
	Requirement	≥20 N		
	Conductor type	Type of conductor and conductor cross-section	stranded 0.25 mm ²	
		Type of conductor and conductor cross-section	H05V-K0.5	
	Evaluation	passed		
Requirement	≥40 N			
Conductor type	Type of conductor and conductor cross-section	H07V-U1.5		
	Type of conductor and conductor cross-section	H07V-K1.5		
	Type of conductor and conductor cross-section	AWG 16/1		

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Technical data

	Type of conductor and conductor cross-section	AWG 16/19
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.
 - Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

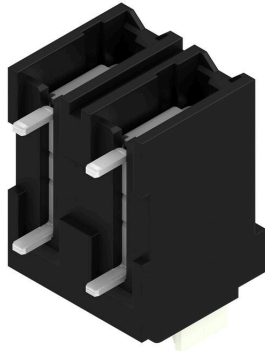
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Drawings

Product image



Dimensional drawing



Graph



Graph



Dimensional drawing



Dimensional drawing

