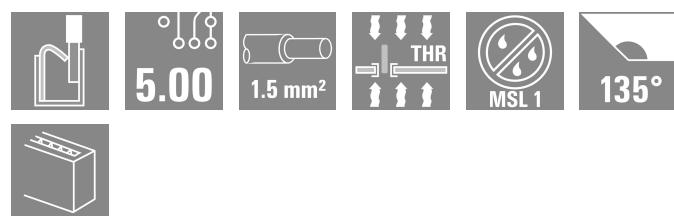


LSF-SMT APL 5.00/03/135 1.5SN BK TU

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

www.weidmueller.com

**Features and benefits:**

- Ethernet-APL compliant
- Space and weight saving design
- Cost-effective alternative to RJ45 and M12 connections
- Available with PUSH IN, SNAP IN, clamping yoke or tension spring connection
- Suitable for THT and THR soldering processes
- 10 Mbit/s communication for long ranges (1000m) according to IEEE 802.3cg-2019
- PoDL remote power supply according to IEEE 802.3bu
- Ethernet-APL is suitable for all IIoT devices and tailored for the process industry

General ordering data

Version	Printed circuit board terminals, 5.00 mm, Number of poles: 3, 135°, Solder pin length (l): 1.5 mm, tinned, black, PUSH IN with push button, Clamping range, max. : 1.5 mm ² , Tube
Order No.	2875090000
Type	LSF-SMT APL 5.00/03/135 1.5SN BK TU
GTIN (EAN)	4064675650409
Qty.	39 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	Tube

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Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	12.7 mm	Depth (inches)	0.5 inch
Height	14.4 mm	Height (inches)	0.5669 inch
Height of lowest version	12.9 mm	Width	14.2 mm
Width (inches)	0.5591 inch	Net weight	3.38 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	3						
Solder pin length (l)	1.5 mm						
Mounting onto the PCB	THT/THR solder connection						
Pitch in inches (P)	0.197 "						
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						
Product family	OMNIMATE Signal - series LSF						
Pitch in mm (P)	5.00 mm						
Protection degree	IP20						
Performance-Category	10 / 100 Mbps						
Soldering process	Reflow soldering, Manual soldering, Wave soldering						
Solder pin dimensions	0.35 x 0.8 mm						
Solder pin length tolerance	<table> <tbody> <tr> <td>Lower tolerance with prefix (reveals minimum)</td> <td>-0.3</td> </tr> <tr> <td>Upper tolerance with prefix (reveals maximum)</td> <td>+0.1</td> </tr> <tr> <td>Tolerance, unit</td> <td>mm</td> </tr> </tbody> </table>	Lower tolerance with prefix (reveals minimum)	-0.3	Upper tolerance with prefix (reveals maximum)	+0.1	Tolerance, unit	mm
Lower tolerance with prefix (reveals minimum)	-0.3						
Upper tolerance with prefix (reveals maximum)	+0.1						
Tolerance, unit	mm						
Solder pin dimensions = d tolerance	<table> <tbody> <tr> <td>Lower tolerance with prefix (reveals minimum)</td> <td>-0.1</td> </tr> <tr> <td>Upper tolerance with prefix (reveals maximum)</td> <td>0</td> </tr> <tr> <td>Tolerance, unit</td> <td>mm</td> </tr> </tbody> </table>	Lower tolerance with prefix (reveals minimum)	-0.1	Upper tolerance with prefix (reveals maximum)	0	Tolerance, unit	mm
Lower tolerance with prefix (reveals minimum)	-0.1						
Upper tolerance with prefix (reveals maximum)	0						
Tolerance, unit	mm						
Tolerance of solder pin position	± 0.1 mm						

Electrical properties

Volume resistance	1.60 mΩ
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Material data

Insulating material	LCP GF	Colour	black
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
Contact surface	tinned	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

Packing

Packaging	Tube	VPE length	555.00 mm
VPE width	21.00 mm	VPE height	17.00 mm

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
		Type of conductor and conductor cross-section AWG 16/19
	Evaluation	passed
Test for damage to and accidental loosening of conductors	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

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Technical data

Pull-out test	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
	Evaluation	AWG 16/19
	Requirement	passed
	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Evaluation	passed
	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
		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	<ul style="list-style-type: none"> 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.

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Technical data

- 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

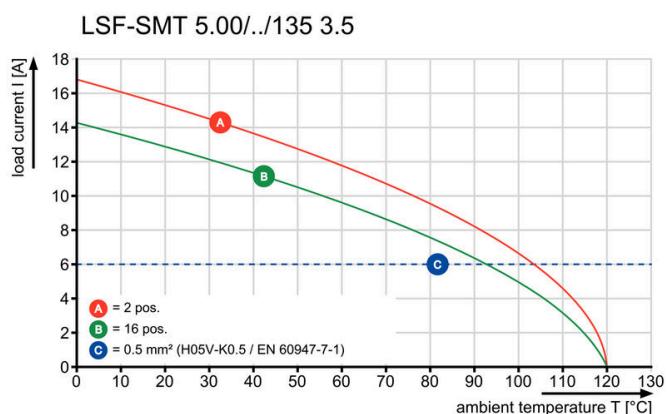
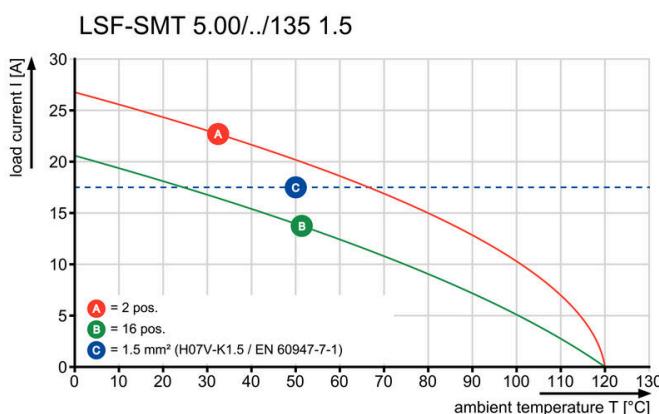
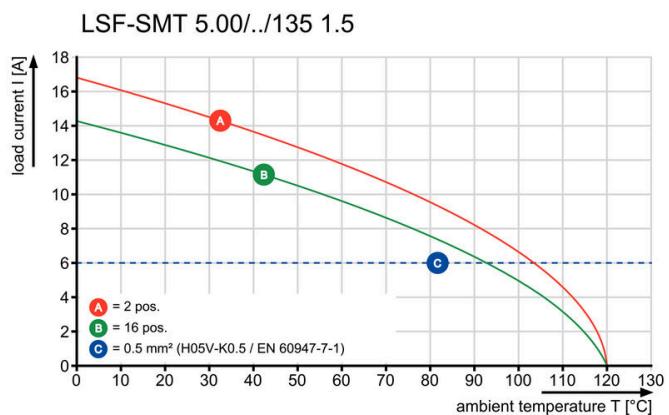
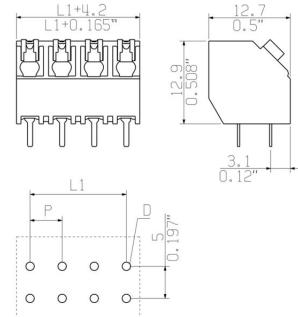
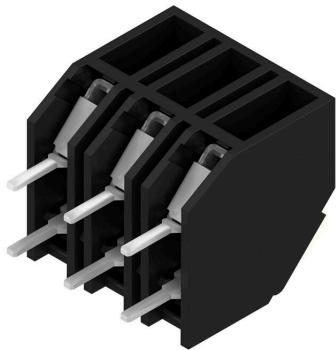
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

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Drawings



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Drawings