

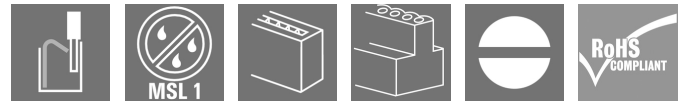
LHF-SMT L 1.5SN BK/GY RL**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image**Naturally, the CH20M system also shows its detailed perfection in the peripheral interface.**

If you are taking into consideration design options, processing, usability, reliability and security, then pin headers and connectors are just as critical in the real world as the entire system.

In every sector, the connection technology is at the top of its class.

- **100% safe** protected against accidental touch
- **100% efficient** fully compatible with reflow soldering
- **100% time and cost savings** During the installation: the quick all-purpose "Multi-Tool" screw head ensures a secure contact, user-friendly operation and less complexity. Additional features, such as the "Wire ready" technology, enable you to minimize wiring costs and increase customer satisfaction.

General ordering data

Version	Printed circuit board terminals, 0.00 mm, Number of poles: 1, 90°, Solder pin length (l): 0.6 mm, tinned, black, PUSH IN, Clamping range, max.: 1.5 mm², Tape
Order No.	2581750000
Type	LHF-SMT L 1.5SN BK/GY RL
GTIN (EAN)	4064675880929
Qty.	432 pc(s).
Product data	IEC: 400 V / 19.5 A / 0.14 - 1.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 16
Packaging	Tape

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Technical data

Dimensions and weights

Depth	23.6 mm	Depth (inches)	0.929 inch
Height	16.9 mm	Height (inches)	0.665 inch
Height of lowest version	4.3 mm	Width	6 mm
Width (inches)	0.236 inch	Net weight	1.73 g

Temperatures

Continuous operating temp., max.	120 °C
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System Parameters

Product family	OMNIMATE Housing - series CH20M6	Wire connection method	PUSH IN
Pitch in mm (P)	0 mm	Conductor outlet direction	90°
Number of poles	1	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged
Protection degree	IP20	Screwdriver blade	0.4 x 0.2
Screwdriver blade standard	DIN 5264, ISO 2380-1, ISO 2380-2		

Material data

Insulating material	LCP	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	175 ≤ CTI < 250	Insulation strength	≥ 1 MΩ
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact surface	tinned	Coating	nickel-plated
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	120 °C

Conductors suitable for connection

Clamping range, min.	0.14 mm ²	Clamping range, max.	1.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.14 mm ²	Solid, max. H05(07) V-U	1.5 mm ²
Stranded, min. H07V-R	0.14 mm ²	Stranded, max. H07V-R	1.5 mm ²
Flexible, min. H05(07) V-K	0.14 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.	1 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
Plug gauge in accordance with EN 60999 a x b; ø		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)
	2.4 mm x 1.5 mm; 1.9mm		

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Technical data

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	19.5 A
Rated current, max. number of poles (Tu=20°C)	19.5 A	Rated current, min. number of poles (Tu=40°C)	17.3 A
Rated current, max. number of poles (Tu=40°C)	17.3 A	Rated voltage for surge voltage class / pollution degree II/2	400 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 data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	50 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	10 A
Rated current (Use group C / CSA)	10 A	Rated current (Use group D / CSA)	300 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 16

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	50 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	10 A
Rated current (Use group C / UL 1059)	10 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 16

Material data

Comparative Tracking Index (CTI)	175 ≤ CTI <250	Insulating material	LCP
Insulating material group	IIIa	UL 94 flammability rating	V-0

General data

Colour	black	Colour chart (similar)	RAL 9011
Protection degree	IP20		

Classifications

ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	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

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

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.
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Approvals

ROHS	Conform
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Catalogue status 13.07.2024 / We reserve the right to make technical changes.

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Technical data

Downloads

Engineering Data	CAD data – PCB Reference Layout CAD data – STEP
Catalogues	Catalogues in PDF-format

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Drawings

Product image

Product image

Example of use



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www.weidmueller.com**Accessories****Slotted screwdriver**

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.4X2.0X60	Version
Order No.	2749260000	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade
GTIN (EAN)	4050118895537	thickness (A): 0.4 mm
Qty.	1 pc(s).	

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Type	SDIS 0.4X2.0X60	Version
Order No.	2749780000	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade
GTIN (EAN)	4050118896527	thickness (A): 0.4 mm
Qty.	1 pc(s).	