

**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, 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.	<a href="#">2581750000</a>
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
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
Conductor outlet direction	90°	Number of poles	1
Number of rows	1	Pin series quantity	1
Protection degree	IP20	Stripping length	7 mm
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	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 <sup>2</sup>	Clamping range, max.	1.5 mm <sup>2</sup>
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 <sup>2</sup>	Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Stranded, min. H07V-R	0.14 mm <sup>2</sup>	Stranded, max. H07V-R	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.14 mm <sup>2</sup>	Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	1 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm; 1.9mm	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)

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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

**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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**Downloads**

Engineering Data	<a href="#">CAD data – PCB Reference Layout</a> <a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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## Drawings

### Product image

### Product image

### Example of use



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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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.	<a href="#">2749780000</a>	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade
GTIN (EAN)	4050118896527	thickness (A): 0.4 mm
Qty.	1 pc(s).	

**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.	<a href="#">2749260000</a>	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade
GTIN (EAN)	4050118895537	thickness (A): 0.4 mm
Qty.	1 pc(s).	