

## LHF 1 SMT L 1.5SN BK/GY RL

**Weidmüller Interface GmbH & Co. KG**

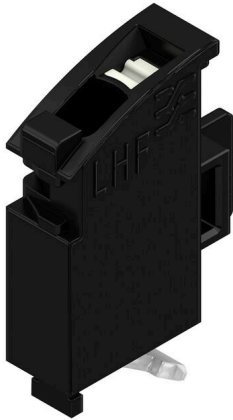
Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 mm <sup>2</sup> , Tape |
| Order No.    | <a href="#">2581750000</a>   |
| Type         | LHF 1 SMT L 1.5SN BK/GY RL   |
| GTIN (EAN)   | 4064675880929  |
| Qty.         | 432 items  |
| Product data | IEC: 400 V / 19.5 A / 0.14 - 1.5 mm <sup>2</sup><br>UL: 300 V / 10 A / AWG 26 - AWG 16   |
| Packaging    | Tape   |

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## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E0693VOL1SEC93             |

## Dimensions and weights

|                          |             |                 |             |
|--------------------------|-------------|-----------------|-------------|
| Depth                    | 23.7 mm     | Depth (inches)  | 0.9331 inch |
| Height                   | 17 mm       | Height (inches) | 0.6693 inch |
| Height of lowest version | 4.3 mm      | Width           | 6.1 mm      |
| Width (inches)           | 0.2402 inch | Net weight      | 1.73 g      |

## Temperatures

|                     |                |                                  |        |
|---------------------|----------------|----------------------------------|--------|
| Ambient temperature | -40 °C...85 °C | 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 Housing - series CH20M6 | Type of connection  | PUSH IN   |
| Wire connection method                     | PUSH IN                          | Pitch in mm (P)     | 0.00 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      |
| Stripping length                           | 10 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 of operational elements | white         | Colour chart (similar)           | RAL 9011       |
| Insulating material group      | IIIa          | Comparative Tracking Index (CTI) | 175 ≤ CTI <250 |
| Insulation resistance          | ≥ 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 <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> |

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|--|------------------------|---|---|
| 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, 0.25 mm <sup>2</sup> min. |                        | w. plastic collar ferrule, DIN 46228 pt 4, 1 mm <sup>2</sup> max. |   |
| 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) |

## 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 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                   |   |        |

## 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

|                                       |        |                                       |  |
|---------------------------------------|--------|---------------------------------------|--|
| Institute (cURus)                     | CURUS  | Certificate No. (cURus)               | E0693VOL1SEC93   |
| 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   |
| Clearance distance, min.              | 0.3 mm | Reference to approval values          | Specifications are maximum values, details - see approval certificate. |

## Material data

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

## General data

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

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**Technical data****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.

**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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**Example of use**

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# 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 thickness (A): 0.4 mm |  |
| GTIN (EAN) | 4050118896527              |  |  |
| Qty.       | 1 ST                       |  |  |
| Type       | SDS 0.4X2.0X60             | Version  |  |
| Order No.  | <a href="#">2749260000</a> | Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade thickness (A): 0.4 mm |  |
| GTIN (EAN) | 4050118895537              |  |  |
| Qty.       | 1 ST                       |  |  |