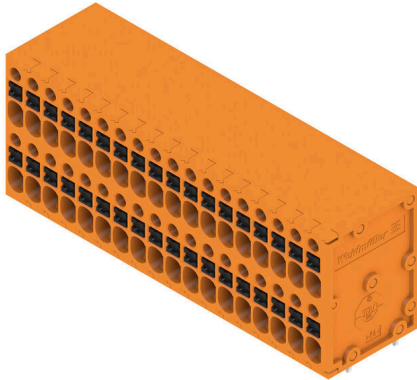


LS2HF 3.50/36/90 3.5SN OR BX

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

www.weidmueller.com

Product image



Double-level PCB terminal for the wave soldering process, with PUSH IN wire connection system. Conductor insertion and slider operation from the same direction (TOP).

- Solid and flexible conductors with wire-end ferrules can just be inserted - done
- When connecting flexible wires without wire-end ferrules, the actuating element is used to open the clamping point
- Intuitive handling thanks to the clear distinction between wire entry and actuating element
- Packed in a box
- Conductor outlet direction 90°

General ordering data

| | |
|--------------|---|
| Version | Printed circuit board terminals, 3.50 mm, Number of poles: 36, 90°, Solder pin length (l): 3.5 mm, orange, PUSH IN with actuator, Clamping range, max.: 1.5 mm ² , Box |
| Order No. | 2001100000 |
| Type | LS2HF 3.50/36/90 3.5SN OR BX |
| GTIN (EAN) | 4050118382945 |
| Qty. | 20 items |
| Product data | IEC: 400 V / 17.5 A / 0.2 - 1.5 mm ² UL: 150 V / 12.5 A / AWG 26 - AWG 16 |
| Packaging | Box |

LS2HF 3.50/36/90 3.5SN OR BX

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

www.weidmueller.com

Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|--------------------------|-------------|-----------------|-------------|
| Depth | 18 mm | Depth (inches) | 0.7087 inch |
| Height | 27.7 mm | Height (inches) | 1.0905 inch |
| Height of lowest version | 24.2 mm | Width | 68 mm |
| Width (inches) | 2.6772 inch | Net weight | 33.52 g |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

System parameters

| | | | |
|--|-----------------------------|--|-----------------------|
| Product family | OMNIMATE Signal - series LS | Wire connection method | PUSH IN with actuator |
| Mounting onto the PCB | THT solder connection | Conductor outlet direction | 90° |
| Pitch in mm (P) | 3.50 mm | Pitch in inches (P) | 0.138 " |
| Number of poles | 36 | Pin series quantity | 2 |
| Fitted by customer | No | Number of rows | 2 |
| Solder pin length (l) | 3.5 mm | Solder pin length tolerance | -0.1 / 0 mm |
| Solder pin dimensions | 1.0 x 0.6 mm | Solder pin dimensions = d tolerance | 0 / -0,05 mm |
| Solder eyelet hole diameter (D) | 1.3 mm | Solder eyelet hole diameter tolerance (D)+ | 0,1 mm |
| Number of solder pins per pole | 1 | Screwdriver blade | 0.4 x 2.5 |
| Stripping length | 8 mm | L1 in mm | 59.50 mm |
| L1 in inches | 2.343 " | 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 |

Material data

| | | | |
|---------------------------------------|------------------|---------------------------------------|--------------|
| Insulating material | PA 66/6 | Colour | orange |
| Colour of operational elements | black | Colour chart (similar) | RAL 2000 |
| Comparative Tracking Index (CTI) | ≥ 600 | Moisture Level (MSL) | |
| UL 94 flammability rating | V-0 | Contact material | Copper alloy |
| Layer structure of solder connection | 4...7 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. | -25 °C |
| Temperature range, installation, max. | 100 °C | | |

Conductors suitable for connection

| | |
|---|---------------------|
| Clamping range, min. | 0.2 mm ² |
| Clamping range, max. | 1.5 mm ² |
| Wire connection cross section AWG, min. | AWG 26 |

LS2HF 3.50/36/90 3.5SN OR BX

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

www.weidmueller.com

Technical data

| | |
|---|----------------------|
| Wire connection cross section AWG, max. | AWG 16 |
| 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. | 0.2 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 0.75 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 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 | wire end ferrule | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H0,25/12 HBL |
| | | | |
| Cross-section for conductor connection | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 0.34 mm ² |
| wire end ferrule | wire end ferrule | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H0,34/12 TK |
| | | | |
| Cross-section for conductor connection | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 0.5 mm ² |
| wire end ferrule | wire end ferrule | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H0,5/14 OR |
| | | | |
| Cross-section for conductor connection | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 0.75 mm ² |
| wire end ferrule | wire end ferrule | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H0,75/14T HBL |
| | | | |
| Cross-section for conductor connection | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 1.5 mm ² |
| wire end ferrule | wire end ferrule | Stripping length | nominal 7 mm |
| | | Recommended wire-end ferrule | H1,5/7 |
| | | | |

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 60947-7-4 | Rated current, min. number of poles (Tu=20°C) | 17.5 A |
| Rated current, max. number of poles (Tu=20°C) | 9 A | Rated current, min. number of poles (Tu=40°C) | 17.5 A |
| Rated current, max. number of poles (Tu=40°C) | 8 A | Rated voltage for surge voltage class / pollution degree II/2 | 400 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 200 V | Rated voltage for surge voltage class / pollution degree III/3 | 160 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 2.5 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV | | |

Rated data acc. to CSA

| | | | |
|-----------------------------------|--------|-----------------------------------|--------|
| Rated voltage (Use group B / CSA) | 150 V | Rated voltage (Use group D / CSA) | 150 V |
| Rated current (Use group B / CSA) | 12.5 A | Rated current (Use group D / CSA) | 12.5 A |

LS2HF 3.50/36/90 3.5SN OR BX

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

www.weidmueller.com

Technical data

| | | | |
|-------------------------------|--------|-------------------------------|--------|
| 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) | E60693 |
| Rated voltage (Use group B / UL 1059) | 150 V | Rated voltage (Use group D / UL 1059) | 150 V |
| Rated current (Use group B / UL 1059) | 12.5 A | Rated current (Use group D / UL 1059) | 12.5 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 16 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Packing

| | | | |
|-----------|-----------|------------|-----------|
| Packaging | Box | VPE length | 275.00 mm |
| VPE width | 135.00 mm | VPE height | 26.00 mm |

Type tests

| | | | |
|---|---|--|------------------------------|
| Test: Durability of markings | Standard | IEC 60947-7-4 section 7.1.4 / 08.13 | |
| | Test | mark of origin, type identification, pitch, date clock | |
| | Evaluation | available | |
| Test for damage to and accidental loosening of conductors | Standard | IEC 60999-1 section 9.4 / 11.99, IEC 60999-1 section 9.5 / 11.99 | |
| | Requirement | 0.2 kg | |
| | Conductor type | Type of conductor and conductor cross-section | stranded 0.2 mm ² |
| | Evaluation | passed | |
| | Requirement | 0.3 kg | |
| | Conductor type | 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 | stranded 0.5 mm ² |
| | | Type of conductor and conductor cross-section | solid 0.5 mm ² |
| Pull-out test | Standard | IEC 60999-1 section 9.4 / 11.99, IEC 60999-1 section 9.5 / 11.99 | |
| | Requirement | ≥10 N | |
| | Conductor type | Type of conductor and conductor cross-section | stranded 0.2 mm ² |
| | Evaluation | passed | |
| | Requirement | ≥20 N | |
| | Conductor type | Type of conductor and conductor cross-section | solid 0.5 mm ² |
| | Evaluation | passed | |
| | Requirement | ≥40 N | |
| Conductor type | Type of conductor and conductor cross-section | stranded 1.5 mm ² | |

LS2HF 3.50/36/90 3.5SN OR BX

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

www.weidmueller.com

Technical data

| | | |
|------------|---|---------------------------|
| | Type of conductor and conductor cross-section | solid 1.5 mm ² |
| 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 variants on request
 - Rated current related to rated cross-section & min. No. of poles.
 - Wire end ferrule without plastic collar to DIN 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - 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 | | |

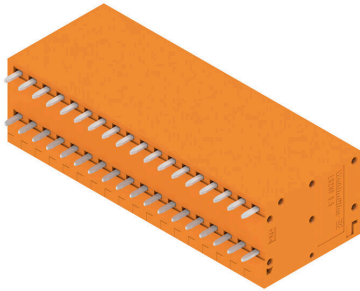
LS2HF 3.50/36/90 3.5SN OR BX

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

www.weidmueller.com

Drawings

Product image



Dimensional drawing



Graph



Product benefits



Fast conductor entry through PUSH IN

Product benefits



Simple and reliable connection

Product benefits



Compact design with 2 levels

Product benefits



Maintenance through test tap