

SL-SMT 3.50/05/180G 3.2SN BK BX
Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

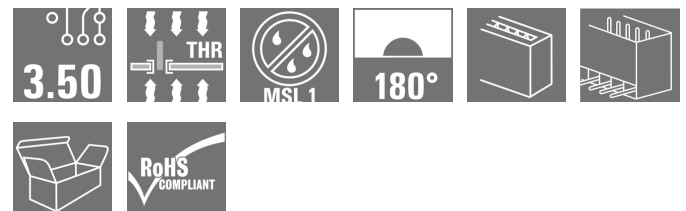
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Product image


Similar to illustration

High-temperature-resistant male header, 3.50 mm pitch.

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**


General ordering data

Article - short description PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.50 mm, Number of poles: 5, 180°, Solder pin length: 3.2 mm, tinned, black, Box

Material number [1842350000](#)

Short text for material SL-SMT 3.50/05/180G 3.2SN BK BX

EAN 4032248353705

Qty. 50 pc(s).

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Technical data

Dimensions and weights

| | | | |
|--------------------------|---------|-----------------|------------|
| Depth | 7.5 mm | Depth (inches) | 0.295 inch |
| Height | 14.3 mm | Height (inches) | 0.563 inch |
| Height of lowest version | 11.1 mm | Net weight | 1.78 g |
| Width | 18.9 mm | Width (inches) | 0.744 inch |

System specifications

| Product family | OMNIMATE Signal - series BL/SL 3.50 | Type of connection | Board connection |
|--|-------------------------------------|--|------------------|
| Mounting onto the PCB | THT/THR solder connection | Pitch in mm | 3.5 mm |
| Pitch in inches | 0.138 inch | Outgoing elbow | 180° |
| Number of poles | 5 | Number of solder pins per pole | 1 |
| Solder pin length | 3.2 mm | Solder pin length tolerance | 0 / -0.3 mm |
| Solder pin dimensions | d = 1.2 mm, Octagonal | Solder pin dimensions = d tolerance | 0 / -0,03 mm |
| Diameter of solder eyelet | 1.4 mm | Tolerance of the diameter of the solder eyelet | + 0,1 mm |
| Outside diameter of solder pad | 2.3 mm | Template aperture diameter | 2.1 mm |
| L1 in mm | 14 mm | L1 in inches | 0.551 inch |
| Number of rows | 1 | Pin series quantity | 1 |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch | Touch-safe protection acc. to DIN VDE 0470 | IP 10 |
| Volume resistance | ≤5 mΩ | Can be coded | Yes |
| Plugging cycles | 25 | Plugging force/pole, max. | 6 N |
| Pulling force/pole, max. | 6 N | | |

Material data

| | | | |
|---------------------------------------|---------------------------|---------------------------------------|---------------------------|
| Insulating material | LCP GF | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulating material group | IIIa |
| Comparative Tracking Index (CTI) | ≥ 175 | Insulation strength | ≥ 10 ⁸ Ω |
| Moisture Level (MSL) | 1 | UL 94 flammability rating | V-0 |
| Contact material | CuSn | Contact surface | tinned |
| Layer structure of solder connection | 2...3 μm Ni / 5...7 μm Sn | Layer structure of plug contact | 2...3 μm Ni / 5...7 μm Sn |
| Storage temperature, min. | -40 °C | Storage temperature, max. | 70 °C |
| Operating temperature, min. | -50 °C | Operating temperature, max. | 100 °C |
| Temperature range, installation, min. | -30 °C | Temperature range, installation, max. | 100 °C |

Rated data acc. to IEC

| | | | |
|---|------------------------|---|-------------------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 15 A |
| Rated current, max. number of poles (Tu=20°C) | 12 A | Rated current, min. number of poles (Tu=40°C) | 13 A |
| Rated current, max. number of poles (Tu=40°C) | 10 A | Rated voltage for surge voltage class / pollution degree II/2 | 320 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 160 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 | Short-time withstand current resistance | 3 x 1s with 100 A |

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Technical data**Rated data acc. to CSA**

Institute (CSA)



Certificate No. (CSA)

200039-1176845

Rated voltage (Use group B / CSA) 300 V

Rated voltage (Use group D / CSA) 300 V

Rated current (Use group B / CSA) 10 A

Rated current (Use group D / CSA) 10 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group B / UL 1059) 10 A

Rated current (Use group D / UL 1059) 10 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Packing

| | | | |
|-----------|-------|------------|-------|
| Packaging | Box | VPE length | 40 mm |
| VPE width | 70 mm | VPE height | 90 mm |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| eClass 9.0 | 27-44-04-02 | eClass 9.1 | 27-44-04-02 |
| eClass 10.0 | 27-44-04-02 | eClass 11.0 | 27460201 |

Approvals

| | |
|-----------------------|--------------|
| Approvals | CSA; EAC; UR |
| ROHS | Conform |
| UL File Number Search | E60693 |

Data sheet

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Technical data

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | Declaration of the Manufacturer |
| Brochure/Catalogue | FL DRIVES EN MB SMT EN FL DRIVES DE MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN |
| Engineering Data | STEP |

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Drawings

Dimensional drawing info@weidmueller.com

