# OMNIMATE Signal - series BL/SL 3.50
# SL 3.50/15/90F 3.2SN OR BX

**Weidmüller Interface GmbH & Co. KG**
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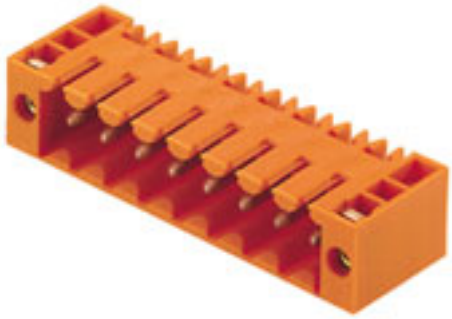

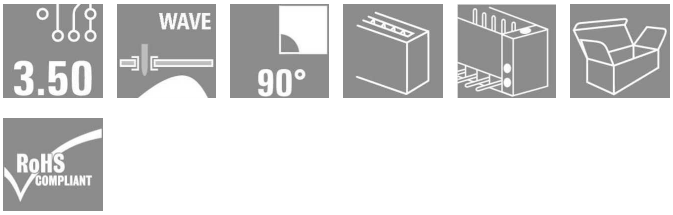


Male header with 3.50 mm pitch for wave soldering

- Plugging direction angled to the PCB (135°)
- Housing variant: screw flange (F)
- Packaged in cardboard box (BX)
- Male header can be coded

250 V (IEC) / 300 V (UL)
17 A (IEC) / 10 A (UL)

## General ordering data

| | |
|---|---|
| Type | SL 3.50/15/90F 3.2SN OR BX |
| Order No. | 1607170000 |
| Version | PCB plug-in connector, male header, Flange, Solder connection, 3.50 mm, No. of poles: 15, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box |
| GTIN (EAN) | 4008190022563 |
| Qty. | 50 pc(s). |
| Product data | IEC: 320 V / 17 A<br>UL: 300 V / 10 A |
| Packaging | Box |

Erstellungs-Datum January 13, 2014 1:00:35 PM CET

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## Technische Daten

### Dimensions and weights

| | |
|---|---|
| Net weight | 5.08 g |

### System parameters

| | | | |
|---|---|---|---|
| Product family | OMNIMATE Signal - series BL/SL 3.50 | Mounting onto the PCB | Solder connection |
| Outgoing elbow | 90° | Pitch in mm (P) | 3.5 mm |
| Pitch in inches (P) | 0.138 inch | No. of poles | 15 |
| Solder pin length (l) | 3.2 mm | Pin dimensions | d = 1.2 mm, Octagonal |
| Can be coded | Yes | Number of solder pins per pole | 1 |
| Solder eyelet hole diameter (D) | 1.3 mm | Solder eyelet hole diameter tolerance (D) | + 0,1 mm |
| L1 in mm | 49 mm | L1 in inches | 1.929 inch |
| Insulation resistance | $10^3$ Ω | Touch-safe protection acc. to DIN VDE 0470 | IP 10 |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch | | |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | PBT | Colour | Orange |
| Insulating material group | IIIa | UL 94 flammability rating | V-0 |
| CTI | ≥ 200 | Contact material | CuSn |
| Contact surface | tinned | Operating temperature, min. | -50 °C |
| Operating temperature, max. | 100 °C | Temperature range, installation, min. | -30 °C |
| Temperature range, installation, max. | 100 °C | Max. relative humidity during storage | 80 % |

### DIN IEC rating data

| | | | |
|---|---|---|---|
| Rated current, min. no. of poles (TU=20°C) | 17 A | Rated current, max. no. of poles (Tu=20°C) | 12 A |
| Rated current, number of poles (Tu=40°C), min | 14.5 A | Rated current, number of poles (Tu=40°C), max. | 10 A |
| Rated voltage for surge voltage class pollution degree III/3 | 160 V | Rated impulse voltage for surge voltage classcontamination degree III/3 | 2.5 kV |
| Rated voltage for surge voltage class pollution degree III/2 | 160 V | Rated impulse voltage for surge voltage classpollution degree III/2 | 2.5 kV |
| Rated voltage for surge voltage class pollution degree II/2 | 320 V | Rated impulse voltage for surge voltage classpollution degree II/2 | 2.5 kV |
| Short-time withstand current resistance | 3 x 1s with 100 A | | |

### CSA rating data

| | | | |
|---|---|---|---|
| Institute (CSA) | | Rated voltage (Use group B) | 300 V |
| Rated current (use group B) | 10 A | Rated voltage (use group D) | 300 V |
| Rated current (use group D) | 10 A | | |

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## Technische Daten

### UL 1059 rating data

| | | | |
|---|---|---|---|
| Institute (UR) |  | Rated voltage (use group B) | 300 V |
| Rated current (use group B) | 10 A | Rated voltage (use group D) | 300 V |
| Rated current (use group D) | 10 A | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 3.0 | EC001284 | UNSPSC | 30-21-18-10 |
| eClass 5.1 | 27-26-07-04 | eClass 6.2 | 27-26-07-04 |
| eClass 7.1 | 27-44-04-02 | | |

### Notes

Notes

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- 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.

### Approvals

Approvals




| | |
|---|---|
| ROHS | Conform |

### Downloads

| | |
|---|---|
| CAD Library (P-CAD Format - ASCII) | SL.zip |
| CAD Library (P-CAD Format - Standard) | SL.zip |

3D Modell

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## Zeichnungen

