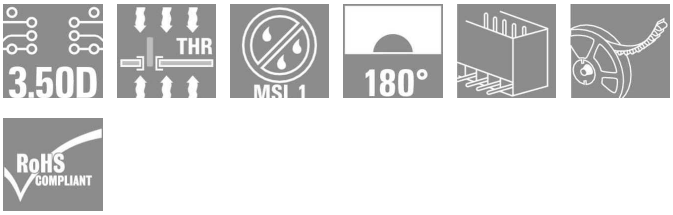
# OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
# S2L-SMT 3.50/12/180G 3.5SN BK RL

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com






High-temperature-resistant, straight, 2-tier male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors can be labelled and coded.

- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

## General ordering data

| | |
|---|---|
| Type | S2L-SMT 3.50/12/180G 3.5SN BK RL |
| Order No. | 1807810000 |
| Version | PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 12, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Tape |
| GTIN (EAN) | 4032248279517 |
| Qty. | 175 pc(s). |
| Product data | IEC: 160 V / 10 A<br>UL: 150 V / 10 A |
| Packaging | Tape |

Erstellungs-Datum January 15, 2014 10:06:16 AM CET

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## Technische Daten

### Dimensions and weights

| | |
|---|---|
| Net weight | 5.623 g |

### System parameters

| | | | |
|---|---|---|---|
| Product family | OMNIMATE Signal - series B2L/S2L 3.50 - 2-row | Mounting onto the PCB | Reflow solder connection |
| Outgoing elbow | 180° | Pitch in mm (P) | 3.5 mm |
| Pitch in inches (P) | 0.138 inch | No. of poles | 12 |
| Solder pin length (l) | 3.5 mm | Pin dimensions | d = 1.0 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 | 17.5 mm | L1 in inches | 0.689 inch |
| 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 | LCP GF | Colour | Black |
| Insulating material group | IIIb | UL 94 flammability rating | V-0 |
| CTI | ≥ 175 | Contact material | Cu-Leg |
| 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 | 93 % |

### DIN IEC rating data

| | | | |
|---|---|---|---|
| Rated current, min. no. of poles (TU=20°C) | 10 A | Rated current, max. no. of poles (Tu=20°C) | 10 A |
| Rated current, number of poles (Tu=40°C), min | 9 A | Rated current, number of poles (Tu=40°C), max. | 8.5 A |
| Rated voltage for surge voltage class pollution degree III/3 | 50 V | Rated impulse voltage for surge voltage classcontamination degree III/3 | 2.5 kV |
| Rated voltage for surge voltage class pollution degree III/2 | 125 V | Rated impulse voltage for surge voltage classpollution degree III/2 | 1.5 kV |
| Rated voltage for surge voltage class pollution degree II/2 | 160 V | Rated impulse voltage for surge voltage classpollution degree II/2 | 1.5 kV |
| Short-time withstand current resistance | 3 x 1s with 77 A | | |

### CSA rating data

| | | | |
|---|---|---|---|
| Institute (CSA) | | Rated voltage (Use group B) | 50 V |
| Rated current (use group B) | 5 A | | |

### UL 1059 rating data

| | | | |
|---|---|---|---|
| Institute (UR) | | Rated voltage (use group B) | 150 V |
| Rated current (use group B) | 10 A | Rated voltage (use group C) | 50 V |
| Rated current (use group C) | 10 A | | |

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## Technische Daten

### Classifications

| | | | |
|---|---|---|---|
| UNSPSC | 30-21-18-10 | eClass 5.1 | 27-26-07-01 |
| 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
- Spacing between rows: see hole layout
- 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

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## Zeichnungen

