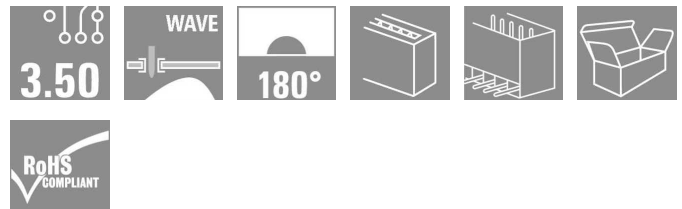


## OMNIMATE Signal - series BL/SL 3.50 SL 3.50/09/180G 3.2SN OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
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Fon: +49 5231 14-0  
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Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

### General ordering data

|              |  |
|--------------|--|
| Type         | SL 3.50/09/180G 3.2SN OR BX  |
| Order No.    | <a href="#">1604540000</a>   |
| Version      | PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 9, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box |
| GTIN (EAN)   | 4008190155643  |
| Qty.         | 50 pc(s).  |
| Product data | IEC: 320 V / 17 A<br>UL: 300 V / 10 A  |
| Packaging    | Box  |

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**Technical data**
**Dimensions and weights**

Net weight 2.62 g

**System parameters**

| Product family                             |                                     | Mounting onto the PCB                        |                              |
|--|-------------------------------------|--|------------------------------|
| Product family                             | OMNIMATE Signal - series BL/SL 3.50 |  | Solder connection            |
| Outgoing elbow                             | 180°                                | Pitch in mm (P)                              | 3.5 mm                       |
| Pitch in inches (P)                        | 0.138 inch                          | No. of poles                                 | 9                            |
| Solder pin length (l)                      | 3.2 mm                              | Solder pin length tolerance                  | +0.1 / -0.3 mm               |
| Solder pin dimensions                      | d = 1.2 mm, Octagonal               | Solder pin dimensions = d tolerance          | 0 / -0,03 mm                 |
| Plugging cycles                            | 25                                  | 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                                     | 28 mm                        |
| L1 in inches                               | 1.102 inch                          | Insulation resistance                        | ≥ 10 <sup>8</sup> 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 |
| Volume resistance                          | 6.00 mΩ                             |  |                              |


**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 %   |

**Rating data acc. to IEC 60664-1 / IEC 61984**

|  |                   |   |        |
|--|-------------------|---|--------|
| 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 class/ contamination degree III/3 | 2.5 kV |
| Rated voltage for surge voltage class / pollution degree III/2 | 160 V             | Rated impulse voltage for surge voltage class/ pollution degree III/2     | 2.5 kV |
| Rated voltage for surge voltage class / pollution degree II/2  | 320 V             | Rated impulse voltage for surge voltage class/ pollution degree II/2      | 2.5 kV |
| Short-time withstand current resistance                        | 3 x 1s with 100 A |   |        |

**CSA rating data**

|                             |   |                             |                |
|-----------------------------|---|-----------------------------|----------------|
| Institute (CSA)             |  | Certificate No. (CSA)       | 154685-1318353 |
| 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           |


**Data sheet**

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**Technical data**

**UL 1059 rating data**

|                             |   |                             |        |
|-----------------------------|---|-----------------------------|--------|
| Institute (UR)              |  | Certificate No. (UR)        | E60693 |
| 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    | ETIM 4.0   | EC002637    |
| ETIM 5.0   | EC002637    | ETIM 6.0   | EC002637    |
| 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          | <ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Gold-plated contact surfaces on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• P on drawing = pitch</li> <li>• 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.</li> </ul> |
| IPC conformity | The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.   |

**Approvals**

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

**Downloads**

|                                       |                        |
|---------------------------------------|------------------------|
| CAD Library (P-CAD Format - ASCII)    | <a href="#">SL.zip</a> |
| CAD Library (P-CAD Format - Standard) | <a href="#">SL.zip</a> |
| <a href="#">3-D model</a>             |                        |

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**Drawings**