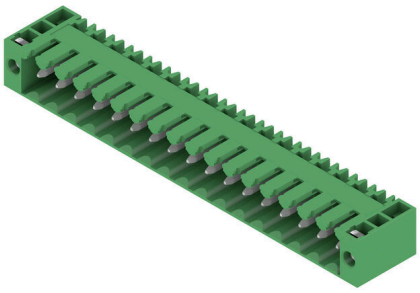
Data sheet

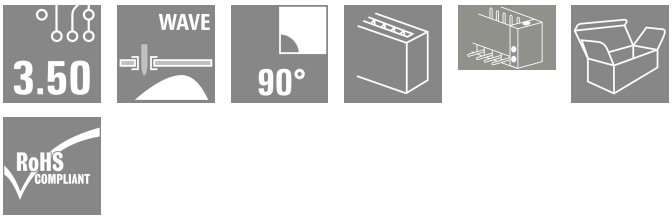
# SL 3.50/17/90F 3.2SN DKGN BX

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

www.weidmueller.com

## Product image






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

| | |
|---|---|
| Version | PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 17, 90°, Solder pin length (l): 3.2 mm, tinned, Signal green, Box |
| Order No. | 1620210000 |
| Type | SL 3.50/17/90F 3.2SN DKGN BX |
| GTIN (EAN) | 4008190153380 |
| Qty. | 20 items |
| Product data | IEC: 320 V / 17 A<br>UL: 300 V / 10 A |
| Packaging | Box |
| Delivery status | Discontinued |
| Available until | 2025-08-31T00:00:00+02:00 |

Creation date 21.01.2026 09:27:23 MEZ

# Data sheet

## SL 3.50/17/90F 3.2SN DKGN BX

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# Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 11.1 mm | Depth (inches) | 0.437 inch |
| Height | 10.7 mm | Height (inches) | 0.4213 inch |
| Height of lowest version | 7.5 mm | Width | 66.5 mm |
| Width (inches) | 2.6181 inch | Net weight | 4.98 g |

### Environmental Product Compliance

| | | |
|---|---|---|
| RoHS Compliance Status | Compliant without exemption | |
| REACH SVHC | No SVHC above 0.1 wt% | |
| Product Carbon Footprint | Cradle to gate | 0.035 kg CO2eq. |

### System specifications

| | | | | |
|---|---|---|---|---|
| Product family | OMNIMATE Signal - series BL/SL 3.50 | | | |
| Type of connection | Board connection | | | |
| Mounting onto the PCB | THT solder connection | | | |
| Pitch in mm (P) | 3.50 mm | | | |
| Pitch in inches (P) | 0.138 " | | | |
| Outgoing elbow | 90° | | | |
| Number of poles | 17 | | | |
| Number of solder pins per pole | 1 | | | |
| 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 | | | |
| Solder eyelet hole diameter (D) | 1.4 mm | | | |
| Solder eyelet hole diameter tolerance (D) | + 0,1 mm | | | |
| L1 in mm | 56.00 mm | | | |
| L1 in inches | 2.205 " | | | |
| Number of rows | 1 | | | |
| Pin series quantity | 1 | | | |
| Touch-safe protection acc. to DIN VDE 57 106 | finger-safe plugged/ back-of-hand-safe unplugged | | | |
| Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged/ IP10 unplugged | | | |
| Volume resistance | ≤5 mΩ | | | |
| Can be coded | Yes | | | |
| Plugging force/pole, max. | 10 N | | | |
| Pulling force/pole, max. | 10 N | | | |
| Tightening torque | Torque type | Mounting screw, PCB | | |
| | Usage information | Tightening torque | min. | 0.1 Nm |
| | | | max. | 0.15 Nm |
| | | Recommended screw | Part number | PTSC KA 2.2X4.5 WN1412 |

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## Technical data

### Material data

| | | | |
|---|---|---|---|
| Insulating material | PBT | Colour | Signal green |
| Colour chart (similar) | RAL 6032 | Insulating material group | IIIa |
| Comparative Tracking Index (CTI) | ≥ 200 | Moisture Level (MSL) | |
| UL 94 flammability rating | V-0 | Contact base material | CuSn |
| Contact material | Cu-alloy | Contact surface | tinned |
| Layer structure of solder connection | 2...4 µm Ni / 5...8 µm Sn glossy | Layer structure of plug contact | 2...4 undefined Ni / 5...8 undefined Sn glossy |
| 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) | 17 A |
| Rated current, max. number of poles (Tu=20°C) | 12 A | Rated current, min. number of poles (Tu=40°C) | 14.5 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 impulse voltage for surge voltage class/ pollution degree II/2 | 2500 V |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV | | |

### Rated data acc. to CSA

| | | | |
|---|---|---|---|
| Institute (CSA) | CSA | Certificate No. (CSA) | 154685-1318353 |
| 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) | 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 | 154.00 mm |
| VPE width | 62.00 mm | VPE height | 57.00 mm |

### 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<br>• Gold-plated contact surfaces on request<br>• Rated current related to rated cross-section & min. No. of poles.<br>• P on drawing = pitch |

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## Technical data

- 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.
- For additional mechanical support for male connectors with screw flange (...F), we recommend an additional cable gland with fastening screws (sheet metal screw ISO 1481-ST 2.2x4.5 C or ISO 7049-ST 2.2x4.5 C – see Accessories). Cable gland only permitted before soldering.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC002637 | ETIM 9.0 | EC002637 |
| ETIM 10.0 | EC002637 | ECLASS 14.0 | 27-46-02-01 |
| ECLASS 15.0 | 27-46-02-01 | | |

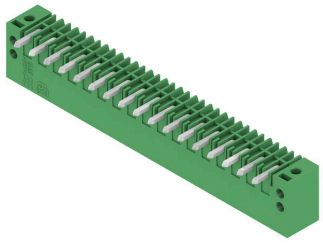
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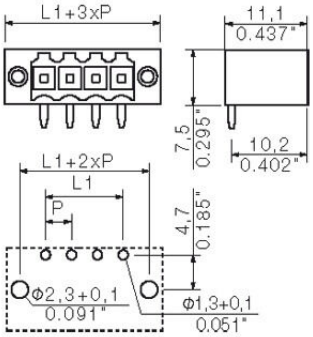
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## Drawings

### Product image



### Dimensional drawing



# SL 3.50/17/90F 3.2SN DKGN BX

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## Accessories

### Additional accessories



No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.
A system is not a system without small but useful details:
- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

### General ordering data

| | | |
|---|---|---|
| Type | BL/SL 3.50 VR BK BX | Version |
| Order No. | 1669300000 | PCB plug-in connector, Accessories, Latches, black, Number of poles: |
| GTIN (EAN) | 4008190428471 | 0 |
| Qty. | 100 ST | |
| Type | BL/SL 3.50 VR OR BX | Version |
| Order No. | 1669310000 | PCB plug-in connector, Accessories, Latches, orange, Number of |
| GTIN (EAN) | 4008190428488 | poles: 0 |
| Qty. | 100 ST | |

### Coding elements



Only connects what is supposed to be connected: the right connection at the right place.
Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation
The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase.
The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.
Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible.
The advantage: no troubleshooting during manufacture and no operational errors by the user.

### General ordering data

| | | |
|---|---|---|
| Type | BL SL 3.5 KO OR | Version |
| Order No. | 1693430000 | PCB plug-in connector, Accessories, Coding element, orange, Number |
| GTIN (EAN) | 4008190867447 | of poles: 1 |
| Qty. | 100 ST | |

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## Accessories

### LED Light guides



Effective:  the link between LED and front panel.
Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.
The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction).
Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.
The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers

The result: simplified manufacturing process, reduced costs and simplified design

### General ordering data

| | | |
|---|---|---|
| Type | SL 3.5 FLA 1.5/8 | Version |
| Order No. | 1597510000 | PCB plug-in connector, Accessories, Flood-light display, Transparent, |
| GTIN (EAN) | 4008190127541 | Number of poles: 1 |
| Qty. | 50 ST | |
| Type | SL 3.5 FLA 2.3/8 | Version |
| Order No. | 1597520000 | PCB plug-in connector, Accessories, Flood-light display, Transparent, |
| GTIN (EAN) | 4008190120566 | Number of poles: 1 |
| Qty. | 50 ST | |
| Type | SL 3.5 FLA 4.0/8 | Version |
| Order No. | 1597530000 | PCB plug-in connector, Accessories, Flood-light display, Transparent, |
| GTIN (EAN) | 4008190075699 | Number of poles: 1 |
| Qty. | 50 ST | |
| Type | SL 3.5 FLA 1.5/1.75/8 | Version |
| Order No. | 1597630000 | PCB plug-in connector, Accessories, Flood-light display, Transparent, |
| GTIN (EAN) | 4008190148386 | Number of poles: 1 |
| Qty. | 50 ST | |
| Type | SL 3.5 FLA 2.3/1.75/8 | Version |
| Order No. | 1597640000 | PCB plug-in connector, Accessories, Flood-light display, Transparent, |
| GTIN (EAN) | 4008190011321 | Number of poles: 1 |
| Qty. | 25 ST | |
| Type | SL 3.5 FLA 4.0/1.75/8 | Version |
| Order No. | 1597650000 | PCB plug-in connector, Accessories, Flood-light display, Transparent, |
| GTIN (EAN) | 4008190027773 | Number of poles: 1 |
| Qty. | 50 ST | |

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## Accessories

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### General ordering data

| | | |
|---|---|---|
| Type | BL SL 3.5 KO SW | Version |
| Order No. | 1610100000 | PCB plug-in connector, Accessories, Coding element, black, Number |
| GTIN (EAN) | 4008190187637 | of poles: 1 |
| Qty. | 100 ST | |