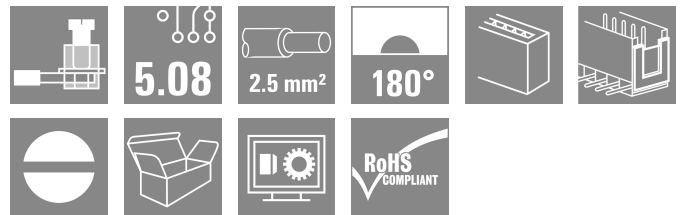
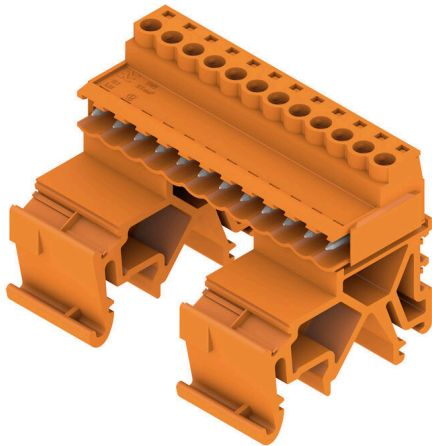


SLS 5.08/12/180TB KF SN OR BX**Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

Male plugs with clamping-yoke screw wire-connect system. With clip-on feet for attaching the male plugs on rail. The male plugs provide space for labelling and can be coded.

General ordering data

| | |
|--------------|--|
| Version | PCB plug-in connector, male plug, 5.08 mm, Number of poles: 12, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box |
| Order No. | 1846170000 |
| Type | SLS 5.08/12/180TB KF SN OR BX |
| GTIN (EAN) | 4032248362455 |
| Qty. | 10 items |
| Product data | IEC: 400 V / 21.5 A / 0.2 - 2.5 mm² UL: 300 V / 14 A / AWG 26 - AWG 12 |
| Packaging | Box |

SLS 5.08/12/180TB KF SN OR BX

Weidmüller Interface GmbH & Co. KG
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Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 22.2 mm | Depth (inches) | 0.874 inch |
| Height | 15.3 mm | Height (inches) | 0.6024 inch |
| Net weight | 33.26 g | | |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

System Parameters

| | | | |
|--|--|-------------------|----------------------------|
| Product family | OMNIMATE Signal - series BL/SL 5.08 | | |
| Type of connection | Field connection | | |
| Wire connection method | Clamping yoke connection | | |
| Pitch in mm (P) | 5.08 mm | | |
| Pitch in inches (P) | 0.200 " | | |
| Conductor outlet direction | 180° | | |
| Number of poles | 12 | | |
| L1 in mm | 55.88 mm | | |
| L1 in inches | 2.200 " | | |
| 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 | | |
| Protection degree | IP20, when fully mounted | | |
| Volume resistance | ≤5 mΩ | | |
| Stripping length | 7 mm | | |
| Screwdriver blade | 0.6 x 3.5 | | |
| Screwdriver blade standard | DIN 5264 | | |
| Plugging cycles | 25 | | |
| Tightening torque | Torque type | Wire connection | |
| | Usage information | Tightening torque | min. 0.4 Nm max. 0.5 Nm |

Material data

| | | | |
|----------------------------------|----------|---------------------------------|----------------------------|
| Insulating material | PBT | Colour | orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | IIIa |
| Comparative Tracking Index (CTI) | ≥ 200 | Moisture Level (MSL) | |
| UL 94 flammability rating | V-0 | Contact material | Cu-alloy |
| Contact surface | tinned | Layer structure of plug contact | 4...8 μm Sn hot-dip tinned |
| Storage temperature, min. | -40 °C | Storage temperature, max. | 70 °C |
| Operating temperature, min. | -50 °C | Operating temperature, max. | 100 °C |

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Technical data

Conductors suitable for connection

| | | | | |
|---|--|------------------------------|------------------------|------|
| Clamping range, min. | 0.13 mm ² | | | |
| Clamping range, max. | 3.31 mm ² | | | |
| Wire connection cross section AWG, min. | AWG 26 | | | |
| Wire connection cross section AWG, max. | AWG 12 | | | |
| Solid, min. H05(07) V-U | 0.2 mm ² | | | |
| Solid, max. H05(07) V-U | 2.5 mm ² | | | |
| Stranded, min. H07V-R | 0.2 mm ² | | | |
| Stranded, max. H07V-R | 2.5 mm ² | | | |
| Flexible, min. H05(07) V-K | 0.2 mm ² | | | |
| Flexible, max. H05(07) V-K | 2.5 mm ² | | | |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm ² min. | | | | |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max. | | | | |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm ² | | | |
| w. wire end ferrule, DIN 46228 pt 1, max. | 2.5 mm ² | | | |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 0.5 mm ² | |
| | wire end ferrule | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H0.5/6 | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 1 mm ² | |
| | wire end ferrule | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H1.0/6 | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 1.5 mm ² | |
| | wire end ferrule | Stripping length | nominal | 7 mm |
| | | Recommended wire-end ferrule | H1.5/7 | |
| Cross-section for conductor connection | Type | fine-wired | | |
| | nominal | 2.5 mm ² | | |
| wire end ferrule | Stripping length | nominal | 7 mm | |
| | Recommended wire-end ferrule | H2.5/7 | | |
| Cross-section for conductor connection | Type | fine-wired | | |
| | nominal | 0.75 mm ² | | |
| wire end ferrule | Stripping length | nominal | 6 mm | |
| | Recommended wire-end ferrule | H0.75/6 | | |
| Reference text | The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrules is to be chosen depending on the product and the rated voltage. | | | |

Rated data acc. to IEC

| | | | |
|--|------------------------|--|--------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 21.5 A |
| Rated current, max. number of poles (Tu=20°C) | 16 A | Rated current, min. number of poles (Tu=40°C) | 18 A |
| Rated current, max. number of poles (Tu=40°C) | 14 A | Rated voltage for surge voltage class / pollution degree II/2 | 400 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 320 V | Rated voltage for surge voltage class / pollution degree III/3 | 250 V |

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Technical data

Rated impulse voltage for surge voltage 4 kV
class/ pollution degree II/2

Rated impulse voltage for surge voltage 4 kV
class/ contamination degree III/3

Rated impulse voltage for surge voltage 4 kV
class/ pollution degree III/2

Rated data acc. to CSA

Rated voltage (Use group B / CSA) 300 V

Rated current (Use group B / CSA) 15 A

Wire cross-section, AWG, min. AWG 26

Rated voltage (Use group D / CSA) 300 V

Rated current (Use group D / CSA) 10 A

Wire cross-section, AWG, max. AWG 12

Rated data acc. to UL 1059

Institute (UR) UR

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

Rated current (Use group B / UL 1059) 14 A

Wire cross-section, AWG, min. AWG 26

Reference to approval values
Specifications are maximum values, details - see approval certificate.

Certificate No. (UR) E60693

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

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

Wire cross-section, AWG, max. AWG 12

Packing

Packaging Box

VPE width 138.00 mm

VPE length 227.00 mm

VPE height 51.00 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
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.
- 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 EC002638

ETIM 10.0 EC002638

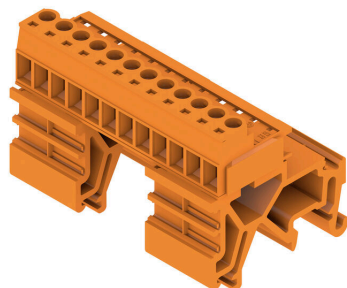
ECLASS 15.0 27-46-02-02

ETIM 9.0 EC002638

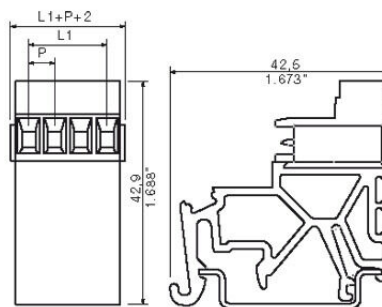
ECLASS 14.0 27-46-02-02

Drawings

Product image

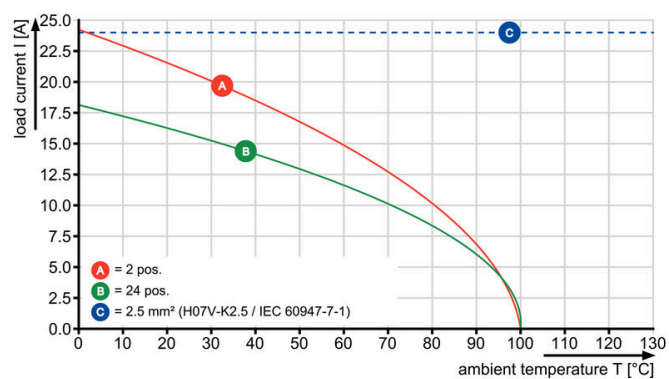


Dimensional drawing



Graph

BLZP 5.08/.../180 - SLS 5.08TB KF



SLS 5.08/12/180TB KF SN OR BX

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Accessories

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 | BLZ/SL KO OR BX | Version |
| Order No. | 1573010000 | PCB plug-in connector, Accessories, Coding element, orange, Number |
| GTIN (EAN) | 4008190048396 | of poles: 1 |
| Qty. | 100 ST | |
| Type | BLZ/SL KO BK BX | Version |
| Order No. | 1545710000 | PCB plug-in connector, Accessories, Coding element, black, Number |
| GTIN (EAN) | 4008190087142 | of poles: 1 |
| Qty. | 50 ST | |

Blocks for PCB mounting



Minor component, major effect:
 Clip-on attachment elements increase the mechanical resilience of the whole plug connection by

- securing the male connectors to the circuit board
- providing a vibration-proof connection between the sockets and the male connectors

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SLA BB4 OR | Version |
| Order No. | 1571720000 | PCB plug-in connector, Accessories, Mounting block, orange, Number |
| GTIN (EAN) | 4008190098995 | of poles: 0 |
| Qty. | 50 ST | |
| Type | SLA BB8 RH OR | Version |
| Order No. | 1446060000 | PCB plug-in connector, Accessories, Mounting block, orange, Number |
| GTIN (EAN) | 4008190084585 | of poles: 0 |
| Qty. | 20 ST | |

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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 | SL AT OR | Version |
| Order No. | 1598300000 | PCB plug-in connector, Accessories, Spacer, orange, Number of poles: |
| GTIN (EAN) | 4008190189266 | 1 |
| Qty. | 100 ST | |
| Type | SL AT SW | Version |
| Order No. | 1770240000 | PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1 |
| GTIN (EAN) | 4032248117710 | |
| Qty. | 100 ST | |