



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. The also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

General ordering data

| Version | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, 180°, Clamping yoke connec- tion, Clamping range, max.: 4 mm², Box |
|--------------|---|
| Order No. | 1223800000 |
| Туре | BLZP 5.08HC/04/180F SN GN BX |
| GTIN (EAN) | 4050118007282 |
| Qty. | 60 items |
| Product data | IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12 |
| Packaging | Вох |



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Technical data

Approvals

| Approvals | | KEMA | |
|-----------|-------|-------|-----|
| | C THE | INEUR | 117 |

| ROHS | Conform | |
|-------------------------|-------------------|--|
| UL File Number Search | <u>UL Website</u> | |
| Certificate No. (UR) | E60693 | |
| Certificate No. (cURus) | E60693 | |

Dimensions and weights

| Depth | 20 mm | Depth (inches) | 0.7874 inch |
|------------|----------|-----------------|-------------|
| Height | 16.1 mm | Height (inches) | 0.6339 inch |
| Width | 30.12 mm | Width (inches) | 1.1858 inch |
| Net weight | 7.86 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 | · · · · · · · · · · · · · · · · · · · | | |
| | 5.08 mm | | | |
| Pitch in mm (P) | 0.200 " | | | |
| Pitch in inches (P) | | | | |
| Conductor outlet direction | 180° 4 | | | |
| Number of poles | <u>'</u> | | | |
| L1 in mm | 15.24 mm | | | |
| L1 in inches | 0.600 " | | | |
| Number of rows | 1 | | | |
| Pin series quantity | 1 | | | |
| Rated cross-section | 4 mm ² | | | |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch | | | |
| Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged/ IP10 unplugged | | | |
| Protection degree | IP20 | | | |
| Volume resistance | ≤5 mΩ | | | |
| Can be coded | Yes | | | |
| Stripping length | 7 mm | | | |
| Clamping screw | M 2.5 | | | |
| Screwdriver blade | 0.6 x 3.5, PH 1, PZ 1 | | | |
| Screwdriver blade standard | DIN 5264, ISO 8764/2-PH, ISO 8764/2-F | PZ | | |
| Plugging cycles | 25 | | | |
| Plugging force/pole, max. | 10 N | | | |
| Pulling force/pole, max. | 9 N | | | |
| Tightening torque | Torque type | Wire connection | | |
| | Usage information | Tightening torque | min. | 0.4 Nm |
| | _ | | max. | 0.5 Nm |
| | Torque type | Screw flange | | |
| | Usage information | Tightening torque | min. | 0.2 Nm |
| | | | max. | 0.25 Nm |

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Material data

| Insulating material | PBT | Colour | Pale green |
|---------------------------------------|----------|---------------------------------------|-------------------------|
| Colour chart (similar) | RAL 6021 | Insulating material group | Illa |
| 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 | 48 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 |
| Temperature range, installation, min. | -25 °C | Temperature range, installation, max. | 100 °C |

Conductors suitable for connection

| Clamping range, min. | 0.13 mm ² | | |
|---|--|------|------------|
| Clamping range, max. | 4 mm ² | | |
| Wire connection cross section AWG, min. | AWG 30 | | |
| Wire connection cross section AWG, max. | AWG 12 | | |
| Solid, min. H05(07) V-U | 0.2 mm ² | | |
| Solid, max. H05(07) V-U | 4 mm ² | | |
| Flexible, min. H05(07) V-K | 0.2 mm ² | | |
| Flexible, max. H05(07) V-K | 4 mm ² | | |
| w. plastic collar ferrule, DIN 46228 pt 4 min. | , 0.2 mm² | | |
| w. plastic collar ferrule, DIN 46228 pt 4 max. | , 2.5 mm ² | | |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm ² | | |
| w. wire end ferrule, DIN 46228 pt 1, max. | 4 mm ² | | |
| Plug gauge in accordance with EN 60999 a x b; ø | 2.8 mm x 2.4 mm | | |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |

| 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 |
| | Stripping length | nominal 8 mm |
| | Recommended wire- end ferrule | H0,5/12 OR |
| 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 | <u>H1,5/7</u> |
| Cross-section for conductor connection | Туре | fine-wired |
| | nominal | 2.5 mm ² |
| wire end ferrule | Stripping length | nominal 7 mm |
| | Recommended wire- end ferrule | H2,5/7 |
| | Stripping length | nominal 10 mm |
| | Recommended wire- end ferrule | H2,5/15D BL |





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| Reference text | The outside diameter of the plastic collar should not be larger than the pitch (P), Length of fer 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) | 23 A |

| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 23 A |
|---|------------------------|---|-------------------|
| Rated current, max. number of poles (Tu=20°C) | 18 A | Rated current, min. number of poles (Tu=40°C) | 21 A |
| Rated current, max. number of poles (Tu=40°C) | 16 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 |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 4000 V | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV | Short-time withstand current resistance | 3 x 1s with 120 A |

Rated data acc. to CSA

| Institute (CSA) | CSA | Certificate No. (CSA) | 200039-1121690 |
|-----------------------------------|--------|-----------------------------------|--|
| Rated voltage (Use group B / CSA) | 300 V | Rated voltage (Use group C / CSA) | 50 V |
| Rated voltage (Use group D / CSA) | 300 V | Rated current (Use group B / CSA) | 20 A |
| Rated current (Use group D / CSA) | 20 A | Wire cross-section, AWG, min. | AWG 30 |
| Wire cross-section, AWG, max. | AWG 12 | 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 |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (cURus) | CURUS | Certificate No. (cURus) | 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) | 20 A | Rated current (Use group D / UL 1059) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 12 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Packing

| Packaging | Box | VPE length | 349.00 mm |
|-----------|-----------|------------|-----------|
| VPE width | 139.00 mm | VPE height | 31.00 mm |

Type tests

| Test: Durability of markings | Standard | DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96 |
|--|------------|--|
| | Test | mark of origin, rated voltage, rated cross-section, type of material |
| | Evaluation | available |
| | Test | durability |
| | Evaluation | passed |
| Test: Misengagement (Non- interchangeability) | Standard | DIN EN 60512-13-5 / 11.06, IEC 60512-13-5 / 02.06 |
| | Test | 180° turned with coding elements |
| | Evaluation | passed |
| | Test | visual examination |
| | Evaluation | passed |





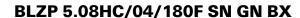
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| Test: Clampable cross section | Standard | DIN EN 60999-1 section 7 and 9.1 / 12.00, DI EN 60947-1 section 8.2.4.5.1 / 12.02 |
|----------------------------------|----------------|--|
| | Conductor type | Type of conductor solid 0.2 mm ² and conductor cross-section |
| | | Type of conductor stranded 0.2 mm ² and conductor cross-section |
| | | Type of conductor solid 2.5 mm ² and conductor cross-section |
| | | Type of conductor stranded 2.5 mm ² and conductor cross-section |
| | | Type of conductor AWG 26/1 and conductor cross-section |
| | | Type of conductor AWG 26/19 and conductor cross-section |
| | Evaluation | passed |
| est for damage to and accidental | Standard | DIN EN 60999-1 section 9.4 / 12.00 |
| posening of conductors | Requirement | 0.2 kg |
| S | Conductor type | Type of conductor AWG 26/1 and conductor cross-section |
| | | Type of conductor AWG 26/19 and conductor cross-section |
| | Evaluation | passed |
| | Requirement | 0.3 kg |
| | Conductor type | Type of conductor solid 0.5 mm ² and conductor cross-section |
| | | Type of conductor stranded 0.5 mm ² and conductor cross-section |
| | Evaluation | passed |
| | Requirement | 0.9 kg |
| | Conductor type | Type of conductor AWG 12/1 and conductor cross-section |
| | | Type of conductor AWG 12/19 and conductor cross-section |
| | Evaluation | passed |
| Pull-out test | Standard | DIN EN 60999-1 section 9.5 / 12.00 |
| | Requirement | ≥10 N |
| | Conductor type | Type of conductor AWG 26/1 and conductor cross-section |
| | | Type of conductor AWG 26/19 and conductor cross-section |
| | Evaluation | passed |
| | Requirement | ≥20 N |
| | Conductor type | Type of conductor H05V-U0.5 and conductor cross-section |
| | | Type of conductor H05V-K0.5 and conductor cross-section |
| | Evaluation | passed |





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| Requirement | ≥60 N |
|----------------|---|
| Conductor type | Type of conductor H07V-U4.0 and conductor cross-section |
| | Type of conductor H07V-K4.0 and conductor cross-section |
| | Type of conductor AWG 12/1 and conductor cross-section |
| | Type of conductor AWG 12/19 and conductor cross-section |
| Evaluation | passed |

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
- · Gold-plated contact surfaces 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 6.0 | EC002638 | ETIM 7.0 | EC002638 |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002638 | ETIM 9.0 | EC002638 |
| ETIM 10.0 | EC002638 | ECLASS 9.0 | 27-44-03-09 |
| ECLASS 9.1 | 27-44-03-09 | ECLASS 10.0 | 27-44-03-09 |
| ECLASS 11.0 | 27-46-02-02 | ECLASS 12.0 | 27-46-02-02 |
| ECLASS 13.0 | 27-46-02-02 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 | | |
| | | | |



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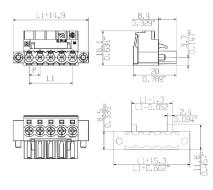
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Drawings

Product image

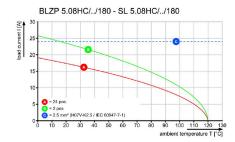


Dimensional drawing



MIN. FRONT PLATE CUT-OUT

Graph





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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

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

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

| Туре | SDS 0.6X3.5X100 | Version |
|------------|-------------------|---|
| Order No. | <u>2749340000</u> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118895568 | thickness (A): 0.6 mm |
| Qty. | 1 ST | |
| Туре | SDIS 0.6X3.5X100 | Version |
| Order No. | <u>2749810000</u> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118897012 | thickness (A): 0.6 mm |
| Qty. | 1 ST | |

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Accessories

Crosshead screwdriver Phillips



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

General ordering data

Туре SDK PH1 X 80 Order No. 2749410000 GTIN (EAN)

Qty.

4050118895636

Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1

Crosshead screwdriver Pozidriv



Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

General ordering data

SDK PZ1 X 80 Туре Order No. 2749440000 GTIN (EAN) 4050118895667 Qty. 1 ST

Version

Version

Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1

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