

SLF 5.08/06/180B SN BK BX

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

www.weidmueller.com

Product image


Male plug with PUSH IN wire connection and straight outlet direction, when used with BLF 5.08HC as wire-to-wire application for panel feed-through. 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: 6, 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm², Box |
| Order No. | 1335850000 |
| Type | SLF 5.08/06/180B SN BK BX |
| GTIN (EAN) | 4050118138979 |
| Qty. | 54 items |
| Product data | IEC: 400 V / 25.9 A / 0.2 - 2.5 mm² UL: 300 V / 14 A / AWG 26 - AWG 12 |
| Packaging | Box |

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 30 mm | Depth (inches) | 1.1811 inch |
| Height | 14.2 mm | Height (inches) | 0.5591 inch |
| Net weight | 10.3 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 | PUSH IN with actuator | Pitch in mm (P) | 5.08 mm |
| Pitch in inches (P) | 0.200 " | Conductor outlet direction | 180° |
| Number of poles | 6 | L1 in mm | 25.40 mm |
| L1 in inches | 1.000 " | Number of rows | 1 |
| Pin series quantity | 1 | Rated cross-section | 2.5 mm ² |
| 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 | 10 mm | Screwdriver blade | 0.6 x 3.5 |
| Screwdriver blade standard | DIN 5264 | Plugging cycles | 25 |
| Plugging force/pole, max. | 7 N | Pulling force/pole, max. | 5.5 N |

Material data

| | | | |
|---------------------------------------|----------------------------|---------------------------------------|----------|
| Insulating material | PBT | Colour | black |
| Colour of operational elements | orange | Colour chart (similar) | RAL 9011 |
| Moisture Level (MSL) | | UL 94 flammability rating | V-0 |
| Contact material | Copper 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 | 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. | 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 |

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|---|--|------------------------------|----------------------------|-------|
| Solid, max. H05(07) V-U | 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 | | | |
| Plug gauge in accordance with EN 60999 a x b; ø | 2.8 mm x 2.0 mm | | | |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 0.5 mm ² | |
| | wire end ferrule | Stripping length | nominal | 12 mm |
| | | Recommended wire-end ferrule | H0,5/16 OR | |
| | | Stripping length | nominal | 10 mm |
| | | Recommended wire-end ferrule | H0,5/10 | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 0.75 mm ² | |
| | wire end ferrule | Stripping length | nominal | 12 mm |
| | | Recommended wire-end ferrule | H0,75/16 W | |
| | | Stripping length | nominal | 10 mm |
| | | Recommended wire-end ferrule | H0,75/10 | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 1 mm ² | |
| | wire end ferrule | Stripping length | nominal | 12 mm |
| | | Recommended wire-end ferrule | H1,0/16D R | |
| | | Stripping length | nominal | 10 mm |
| | | Recommended wire-end ferrule | H1,0/10 | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 1.5 mm ² | |
| | wire end ferrule | Stripping length | nominal | 10 mm |
| | | Recommended wire-end ferrule | H1,5/10 | |
| | | Stripping length | nominal | 12 mm |
| | | Recommended wire-end ferrule | H1,5/16 R | |
| Cross-section for conductor connection | Type | fine-wired | | |
| | nominal | 2.5 mm ² | | |
| wire end ferrule | Stripping length | nominal | 10 mm | |
| | Recommended wire-end ferrule | H2,5/14DS BL | | |

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) | 25.9 A |
| Rated current, max. number of poles (Tu=20°C) | 21.7 A | Rated current, min. number of poles (Tu=40°C) | 22.5 A |

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|---|--------|---|-------------------|
| Rated current, max. number of poles (Tu=40°C) | 18.5 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 D / CSA) | 300 V |
| Rated current (Use group B / CSA) | 10 A | Rated current (Use group D / CSA) | 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. | | |

Rated data acc. to UL 1059

| | | | |
|---------------------------------------|--|---------------------------------------|--------|
| 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) | 14 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 | 350.00 mm |
| VPE width | 135.00 mm | VPE height | 38.00 mm |

Type tests

| | | | |
|--|----------------|--|------------------------------|
| Test: Durability of markings | Standard | IEC 61984 section 6.2 and 7.3.2 / 10.11, IEC 60068-2-70 / 12.95 | |
| | Test | mark of origin, type identification, pitch, date clock, type of material | |
| | Evaluation | available | |
| | Test | durability | |
| | Evaluation | passed | |
| Test: Misengagement (Non-interchangeability) | Standard | IEC 61984 section 6.3 and 6.9.1 / 10.11, IEC 60512-13-5 / 02.06 | |
| | Test | 180° turned with coding elements | |
| | Evaluation | passed | |
| | Test | visual examination | |
| | Evaluation | passed | |
| Test: Clampable cross section | Standard | IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11 | |
| | Conductor type | Type of conductor and conductor cross-section | solid 0.5 mm ² |
| | | Type of conductor and conductor cross-section | stranded 0.5 mm ² |
| | | Type of conductor and conductor cross-section | stranded 1.0 mm ² |

Technical data

| | | | |
|---|---|---|---------------------------|
| | | Type of conductor and conductor cross-section | solid 2.5 mm ² |
| | | Type of conductor and conductor cross-section | AWG 26/1 |
| | | Type of conductor and conductor cross-section | AWG 26/19 |
| | | Type of conductor and conductor cross-section | AWG 14/1 |
| | | Type of conductor and conductor cross-section | AWG 14/19 |
| | Evaluation | passed | |
| Test for damage to and accidental loosening of conductors | Standard | IEC 60999-1 section 9.4 / 11.99 | |
| | Requirement | 0.2 kg | |
| | Conductor type | Type of conductor and conductor cross-section | AWG 26/1 |
| | | Type of conductor and conductor cross-section | AWG 26/19 |
| | Evaluation | passed | |
| | Requirement | 0.3 kg | |
| | Conductor type | Type of conductor and conductor cross-section | H05V-U0.5 |
| | | Type of conductor and conductor cross-section | H05V-K0.5 |
| | Evaluation | passed | |
| | Requirement | 0.7 kg | |
| Pull-out test | Conductor type | Type of conductor and conductor cross-section | H07V-K2.5 |
| | | Type of conductor and conductor cross-section | H07V-U2.5 |
| | | Type of conductor and conductor cross-section | AWG 14/1 |
| | | Type of conductor and conductor cross-section | AWG 14/19 |
| | Evaluation | passed | |
| | Standard | IEC 60999-1 section 9.5 / 11.99 | |
| | Requirement | ≥10 N | |
| | Conductor type | Type of conductor and conductor cross-section | AWG 26/1 |
| Type of conductor and conductor cross-section | | AWG 26/19 | |
| Evaluation | passed | | |
| Requirement | ≥20 N | | |
| Conductor type | Type of conductor and conductor cross-section | H05V-U0.5 | |
| | Type of conductor and conductor cross-section | H05V-K0.5 | |

Technical data

| | | |
|----------------|---|-----------|
| Evaluation | passed | |
| Requirement | ≥50 N | |
| Conductor type | Type of conductor and conductor cross-section | H07V-K2.5 |
| | Type of conductor and conductor cross-section | H07V-U2.5 |
| | Type of conductor and conductor cross-section | AWG 14/1 |
| | Type of conductor and conductor cross-section | AWG 14/19 |
| 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
 - Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.
 - The test point can only be used as potential-pickup point.
 - 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 9.0 | EC002638 |
| ETIM 10.0 | EC002638 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 | | |

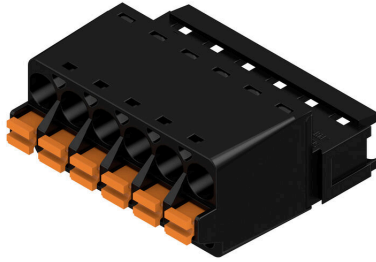
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Drawings

Product image



Dimensional drawing



Graph



Graph



Product benefits



Uncompromising functionality High vibration resistance

Product benefits



Solid PUSH IN contact Safe and durable

Product benefits



Lower assembly costs
Secure in a matter of seconds

Product benefits



Easy handling
No implementation framework necessary

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Accessories

Strain reliefs



For frequent load changes: the "trailer coupling" for plug-in connectors.

The strain relief can do more than just relieve the strain on conductors:

Simply clip onto the plug and

- bundle conductors
- guide cables
- use as a connection and disconnection aid

No damage to the connecting points, clear, tidy wiring and easy to handle.

User advantages: permanent heavy-duty connections for harsh industrial environments and convenient operation ensure improved system availability.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | BLF/SLF 5.08 ZE06 BK | Version |
| Order No. | 2525850000 | PCB plug-in connector, Accessories, Strain relief, black, Number of |
| GTIN (EAN) | 4050118537116 | poles: 6 |
| Qty. | 50 ST | |
| Type | BLF/SLF 5.08 ZE06 OR | Version |
| Order No. | 2525780000 | PCB plug-in connector, Accessories, Strain relief, orange, Number of |
| GTIN (EAN) | 4050118536881 | poles: 6 |
| Qty. | 50 ST | |