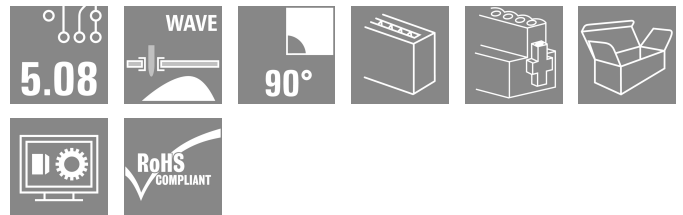
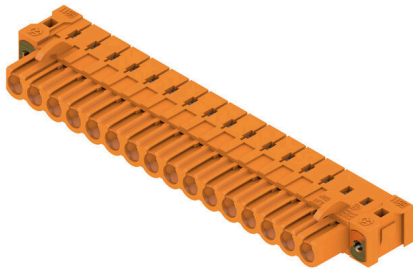


BLL 5.08/16/90FI 3.2SN OR BX

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

www.weidmueller.com

Product image



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

General ordering data

| | |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version | PCB plug-in connector, female header, Inverted flange, THT solder connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box |
| Order No. | 1843890000 |
| Type | BLL 5.08/16/90FI 3.2SN OR BX |
| GTIN (EAN) | 4032248355648 |
| Qty. | 18 items |
| Product data | IEC: 400 V / 23 A UL: 300 V / 15 A |
| Packaging | Box |

BLL 5.08/16/90FI 3.2SN OR BX

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Technical data

Approvals

Approvals



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

Dimensions and weights

| | |
|------------|---------|
| Net weight | 18.83 g |
|------------|---------|

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 0b9f9fbb-9843-4953-ae55-e10a8ae27fe7 |

System specifications

| Product family | OMNIMATE Signal - series BL/SL 5.08 | Type of connection | Board connection |
|--------------------------------------------|----------------------------------------|----------------------------------------------|------------------------------|
| Mounting onto the PCB | THT solder connection | Pitch in mm (P) | 5.08 mm |
| Pitch in inches (P) | 0.200 " | Outgoing elbow | 90° |
| Number of poles | 16 | Number of solder pins per pole | 2 |
| Solder pin length (l) | 3.2 mm | Solder pin length tolerance | +0.1 / -0.3 mm |
| Solder pin dimensions | 0.4 x 1.00 mm | Solder eyelet hole diameter (D) | 1.3 mm |
| Solder eyelet hole diameter tolerance (D) | + 0,1 mm | L1 in mm | 76.20 mm |
| L1 in inches | 3.000 " | Number of rows | 1 |
| Pin series quantity | 1 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch |
| Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged | Protection degree | IP20 |
| Volume resistance | ≤5 mΩ | Can be coded | Yes |
| Plugging cycles | 25 | Plugging force/pole, max. | 5 N |
| Pulling force/pole, max. | 5 N | | |

Material data

| | | | |
|---------------------------------------|----------------------------|---------------------------------------|----------------------------|
| Insulating material | PBT GF | Colour | orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | IIIa |
| Comparative Tracking Index (CTI) | ≥ 200 | Insulation resistance | 108 Ω |
| Moisture Level (MSL) | | UL 94 flammability rating | V-0 |
| Contact material | Copper alloy | Contact surface | tinned |
| Layer structure of solder connection | 4...6 μm Sn hot-dip tinned | Layer structure of plug contact | 4...6 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 |

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 |
| Rated current, max. number of poles (Tu=20°C) | 16 A | Rated current, min. number of poles (Tu=40°C) | 20 A |

Creation date 25.02.2026 01:04:50 MEZ

Catalogue status / Drawings

BLL 5.08/16/90FI 3.2SN OR BX

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Technical data

| | | | |
|---------------------------------------------------------------------------|-------|-----------------------------------------------------------------------|-------------------|
| 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 |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 4 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) | 15 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) | 15 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 | 347.00 mm |
| VPE width | 136.00 mm | VPE height | 30.00 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
 - Gold-plated contact surfaces on request
 - Rated current related to rated cross-section & min. No. of poles.
 - 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 | EC002637 | ETIM 9.0 | EC002637 |
| ETIM 10.0 | EC002637 | ECLASS 14.0 | 27-46-02-01 |
| ECLASS 15.0 | 27-46-02-01 | | |

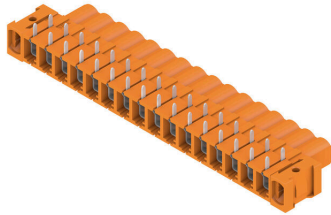
BLL 5.08/16/90FI 3.2SN OR BX

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Germany

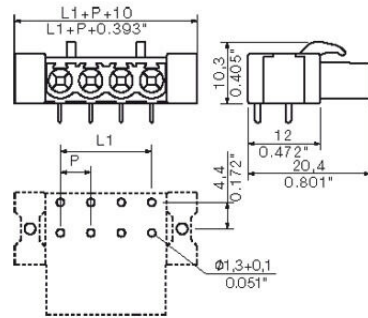
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Drawings

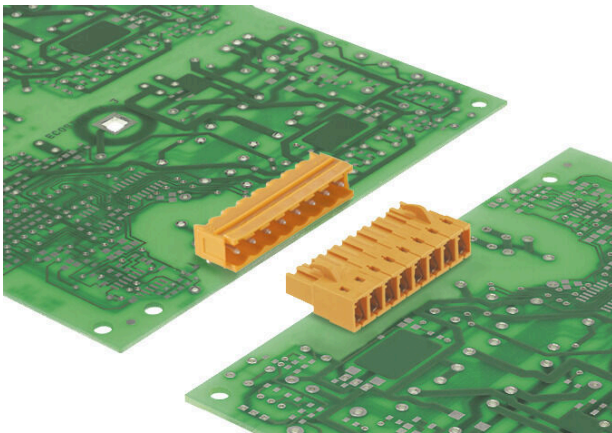
Product image



Dimensional drawing



Example of use



BLL 5.08/16/90FI 3.2SN OR BX

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Accessories

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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 BK BX | Version |
| Order No. | 1545710000 | PCB plug-in connector, Accessories, Coding element, black, Number |
| GTIN (EAN) | 4008190087142 | of poles: 1 |
| Qty. | 50 ST | |
| 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 | |

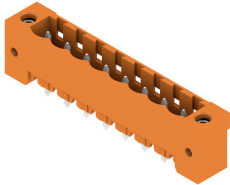
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Counterpart

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SL 5.08HC/180F

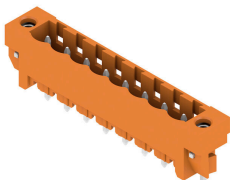


Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

| | | |
|------------|----------------------------|--------------------------------------------------------------------|
| Type | SL 5.08HC/16/180F 3.2SN... | Version |
| Order No. | 1148920000 | PCB plug-in connector, male header, Flange, THT solder connection, |
| GTIN (EAN) | 4032248931903 | 5.08 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm, |
| Qty. | 18 ST | tinned, black, Box |
| Type | SL 5.08HC/16/180F 3.2SN... | Version |
| Order No. | 1147590000 | PCB plug-in connector, male header, Flange, THT solder connection, |
| GTIN (EAN) | 4032248931521 | 5.08 mm, Number of poles: 16, 180°, Solder pin length (l): 3.2 mm, |
| Qty. | 18 ST | tinned, orange, Box |

SL 5.08HC/180LF



Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

| | | |
|------------|----------------------------|-------------------------------------------------------------------|
| Type | SL 5.08HC/16/180LF 3.2S... | Version |
| Order No. | 1149690000 | PCB plug-in connector, male header, Solder flange, THT solder |
| GTIN (EAN) | 4032248932085 | connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length |
| Qty. | 18 ST | (l): 3.2 mm, tinned, black, Box |
| Type | SL 5.08HC/16/180LF 3.2S... | Version |
| Order No. | 1148300000 | PCB plug-in connector, male header, Solder flange, THT solder |
| GTIN (EAN) | 4032248931460 | connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length |
| Qty. | 18 ST | (l): 3.2 mm, tinned, orange, Box |

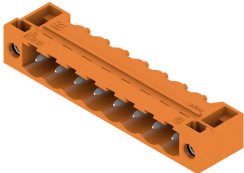
BLL 5.08/16/90FI 3.2SN OR BX

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Counterpart

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SL 5.08HC/90F

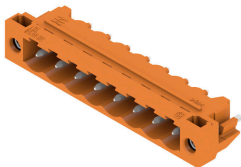


Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

| | | |
|------------|----------------------------|--------------------------------------------------------------------|
| Type | SL 5.08HC/16/90F 3.2SN ... | Version |
| Order No. | 1150240000 | PCB plug-in connector, male header, Flange, THT solder connection, |
| GTIN (EAN) | 4032248936809 | 5.08 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, |
| Qty. | 18 ST | tinned, black, Box |
| Type | SL 5.08HC/16/90F 3.2SN ... | Version |
| Order No. | 1149080000 | PCB plug-in connector, male header, Flange, THT solder connection, |
| GTIN (EAN) | 4032248936281 | 5.08 mm, Number of poles: 16, 90°, Solder pin length (l): 3.2 mm, |
| Qty. | 18 ST | tinned, orange, Box |

SL 5.08HC/90LF



Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

| | | |
|------------|----------------------------|-----------------------------------------------------------------------|
| Type | SL 5.08HC/16/90LF 3.2SN... | Version |
| Order No. | 1150500000 | PCB plug-in connector, male header, Solder flange, THT solder |
| GTIN (EAN) | 4032248105786 | connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l): |
| Qty. | 18 ST | 3.2 mm, tinned, black, Box |
| Type | SL 5.08HC/16/90LF 3.2SN... | Version |
| Order No. | 1149840000 | PCB plug-in connector, male header, Solder flange, THT solder |
| GTIN (EAN) | 4032248936441 | connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l): |
| Qty. | 18 ST | 3.2 mm, tinned, orange, Box |

BLL 5.08/16/90FI 3.2SN OR BX

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Counterpart

SL-SMT 5.08/180F Box



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

| | | |
|------------|----------------------------|-------------------------------------------------------------------|
| Type | SL-SMT 5.08HC/16/180F 3... | Version |
| Order No. | 1820640000 | PCB plug-in connector, male header, Flange, THT/THR solder |
| GTIN (EAN) | 4032248316601 | connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length |
| Qty. | 18 ST | (l): 3.2 mm, tinned, black, Box |

SL-SMT 5.08/180LF Box



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

| | | |
|------------|----------------------------|-------------------------------------------------------------------|
| Type | SL-SMT 5.08HC/16/180LF ... | Version |
| Order No. | 1776502001 | PCB plug-in connector, male header, Solder flange, THT/THR solder |
| GTIN (EAN) | 4032248159383 | connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length |
| Qty. | 18 ST | (l): 1.5 mm, tinned, black, Box |
| Type | SL-SMT 5.08HC/16/180LF ... | Version |
| Order No. | 1838580000 | PCB plug-in connector, male header, Solder flange, THT/THR solder |
| GTIN (EAN) | 4032248348640 | connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length |
| Qty. | 18 ST | (l): 3.2 mm, tinned, black, Box |

SL-SMT 5.08HC/90F Box



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

BLL 5.08/16/90FI 3.2SN OR BX

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Counterpart

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General ordering data

| | | |
|------------|----------------------------|-----------------------------------------------------------------------|
| Type | SL-SMT 5.08HC/16/90F 3... | Version |
| Order No. | 1837770000 | PCB plug-in connector, male header, Flange, THT/THR solder |
| GTIN (EAN) | 4032248347582 | connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l): |
| Qty. | 18 ST | 3.2 mm, tinned, black, Box |

SL-SMT 5.08HC/90LF Box



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

| | | |
|------------|----------------------------|-----------------------------------------------------------------------|
| Type | SL-SMT 5.08HC/16/90LF 1... | Version |
| Order No. | 1775372001 | PCB plug-in connector, male header, Solder flange, THT/THR solder |
| GTIN (EAN) | 4032248157358 | connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SL-SMT 5.08HC/16/90LF 3... | Version |
| Order No. | 1780570000 | PCB plug-in connector, male header, Solder flange, THT/THR solder |
| GTIN (EAN) | 4032248165872 | connection, 5.08 mm, Number of poles: 16, 90°, Solder pin length (l): |
| Qty. | 18 ST | 3.2 mm, tinned, black, Box |

SLDV-THR 5.08/180F



High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

General ordering data

| | | |
|------------|----------------------------|-------------------------------------------------------------------|
| Type | SLDV-THR 5.08/32/180F 3... | Version |
| Order No. | 1866330000 | PCB plug-in connector, male header, Flange, THT/THR solder |
| GTIN (EAN) | 4032248470457 | connection, 5.08 mm, Number of poles: 32, 180°, Solder pin length |
| Qty. | 12 ST | (l): 3.2 mm, tinned, black, Box |

BLL 5.08/16/90FI 3.2SN OR BX

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Counterpart

SLDV-THR 5.08/180FLF

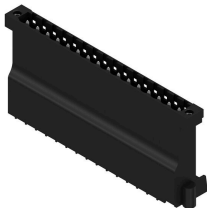


High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

General ordering data

| | | |
|------------|----------------------------|---------------------------------------------------------------------|
| Type | SLDV-THR 5.08/32/180FLF... | Version |
| Order No. | 1866320000 | PCB plug-in connector, male header, Flange / Solder flange, THT/THR |
| GTIN (EAN) | 4032248470440 | solder connection, 5.08 mm, Number of poles: 32, 180°, Solder pin |
| Qty. | 12 ST | length (l): 3.2 mm, tinned, black, Box |

SLH-THR 5.08/180F SN



Extra-high temperature-resistant male header, optimised for the SMT process. Makes a compact 3-row male header when used together with the SLDV-THR.

General ordering data

| | | |
|------------|----------------------------|-------------------------------------------------------------------|
| Type | SLH-THR5.08/16/180F 3.2... | Version |
| Order No. | 1190600000 | PCB plug-in connector, male header, Flange, THT/THR solder |
| GTIN (EAN) | 4032248973415 | connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length |
| Qty. | 10 ST | (l): 3.2 mm, tinned, black, Box |

SLS 5.08/180F



Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

General ordering data

| | | |
|------------|----------------------------|-------------------------------------------------------------------------------|
| Type | SLS 5.08/16/180F SN OR ... | Version |
| Order No. | 1846500000 | PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16, |
| GTIN (EAN) | 4032248362806 | 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm ² , |
| Qty. | 18 ST | Box |

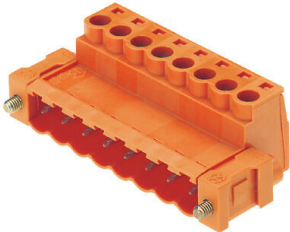
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Counterpart

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SLS 5.08/180FI



Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

General ordering data

| | | |
|------------|----------------------------|------------------------------------------------------------------|
| Type | SLS 5.08/16/180FI SN OR... | Version |
| Order No. | 1846350000 | PCB plug-in connector, male plug, 5.08 mm, Number of poles: 16, |
| GTIN (EAN) | 4032248362639 | 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², |
| Qty. | 18 ST | Box |