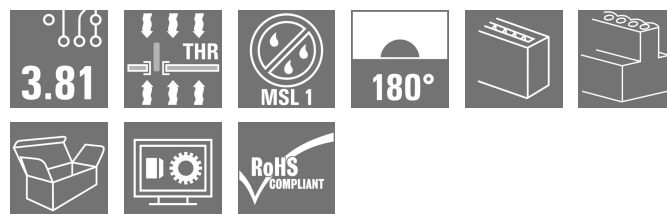
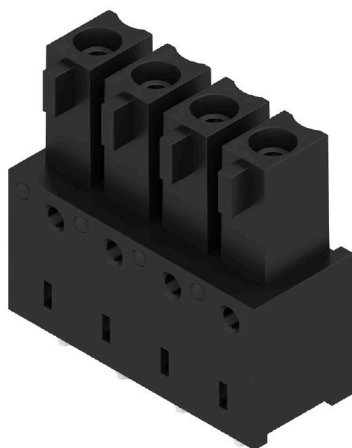


BCL-SMT 3.81/04/180 1.5SN BK BX
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com
Product image


The inverted BCL-SMT socket block for the PCB offers three significant advantages:

- The BCL-SMT offers touch-safe security on the PCB which makes it ideal for live, current-carrying outputs.
- The BCL-SMT widens the range of applications with board-to-board connections between component assemblies.
- The BCL-SMT is reflow-compatible and can be seamlessly integrated into the automatic assembly and soldering process.

Two outlet directions give you a choice of position and thus more design flexibility.

- 180° standing
- 90° recumbent

Two housing variants are available for the BCL-SMT:

- Without flange
- With inverted solder flange ("LFI", with nut)
 - Fastened to PCB without additional screw
 - Fastened with screw to the SCZ FI

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

General ordering data

| | |
|--------------|--|
| Version | PCB plug-in connector, female header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): 1.5 mm, tinned, black, Box |
| Order No. | 1976520000 |
| Type | BCL-SMT 3.81/04/180 1.5SN BK BX |
| GTIN (EAN) | 4032248679003 |
| Qty. | 50 items |
| Product data | IEC: 320 V / 17.5 A UL: 300 V / 10 A |
| Packaging | Box |

BCL-SMT 3.81/04/180 1.5SN BK BX

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

www.weidmueller.com

Technical data**Approvals**

Approvals



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

Dimensions and weights

| | |
|------------|--------|
| Net weight | 1.88 g |
|------------|--------|

Environmental Product Compliance

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

System specifications

| | | | |
|--|-------------------------------------|--|------------------|
| Product family | OMNIMATE Signal - series BC/SC 3.81 | Type of connection | Board connection |
| Mounting onto the PCB | THT/THR solder connection | Pitch in mm (P) | 3.81 mm |
| Pitch in inches (P) | 0.150 " | Outgoing elbow | 180° |
| Number of poles | 4 | Number of solder pins per pole | 2 |
| Solder pin length (l) | 1.5 mm | Solder pin length tolerance | 0 / -0,02 mm |
| Solder pin dimensions | d = 0.8 mm | Solder pin dimensions = d tolerance | +0,05 / -0,05 mm |
| Solder eyelet hole diameter (D) | 1.2 mm | Solder eyelet hole diameter tolerance (D) | + 0,1 mm |
| Outside diameter of solder pad | 1.9 mm | Template aperture diameter | 1.6 mm |
| L1 in mm | 11.43 mm | L1 in inches | 0.450 " |
| 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 |
| Volume resistance | ≤5 mΩ | Can be coded | Yes |
| Plugging force/pole, max. | 9.5 N | Pulling force/pole, max. | 6 N |

Material data

| | | | |
|---------------------------------------|--------------------------------|---------------------------------------|--------------------------------|
| Insulating material | LCP GF | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulating material group | Illa |
| Comparative Tracking Index (CTI) | ≥ 175 | Moisture Level (MSL) | 1 |
| UL 94 flammability rating | V-0 | Contact material | Cu-alloy |
| Contact surface | tinned | Layer structure of solder connection | 1...3 µm Ni / 2...4 µm Sn matt |
| Layer structure of plug contact | 1...3 µm Ni / 2...4 µm Sn matt | Storage temperature, min. | -40 °C |
| Storage temperature, max. | 70 °C | Operating temperature, min. | -50 °C |
| Operating temperature, max. | 120 °C | Temperature range, installation, min. | -25 °C |
| Temperature range, installation, max. | 120 °C | | |

Rated data acc. to IEC

| | | | |
|---|------------------------|---|--------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 17.5 A |
| Rated current, max. number of poles (Tu=20°C) | 15.4 A | Rated current, min. number of poles (Tu=40°C) | 17.5 A |

BCL-SMT 3.81/04/180 1.5SN BK BX

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Technical data

| | | | |
|---|--------|---|-------------------|
| Rated current, max. number of poles (Tu=40°C) | 13.8 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 voltage for surge voltage class / pollution degree III/3 | 160 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 2.5 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV | Short-time withstand current resistance | 3 x 1 s with 76 A |

Rated data acc. to CSA

| | | | |
|-----------------------------------|-------|-----------------------------------|------|
| Rated voltage (Use group B / CSA) | 300 V | Rated voltage (Use group C / CSA) | 50 V |
| Rated current (Use group B / CSA) | 11 A | Rated current (Use group C / CSA) | 11 A |

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) | 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 | 125.00 mm |
| VPE width | 94.00 mm | VPE height | 26.00 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 | <ul style="list-style-type: none"> 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 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| ETIM 8.0 | EC002637 | ETIM 9.0 | EC002637 |
| ETIM 10.0 | EC002637 | ECLASS 9.0 | 27-44-04-02 |
| ECLASS 9.1 | 27-44-04-02 | ECLASS 10.0 | 27-44-04-02 |
| ECLASS 11.0 | 27-46-02-01 | ECLASS 12.0 | 27-46-02-01 |
| ECLASS 13.0 | 27-46-02-01 | ECLASS 14.0 | 27-46-02-01 |
| ECLASS 15.0 | 27-46-02-01 | | |

BCL-SMT 3.81/04/180 1.5SN BK BX

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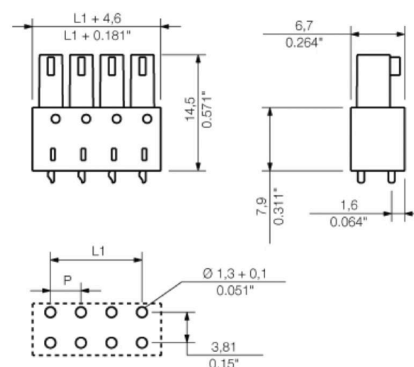
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Drawings

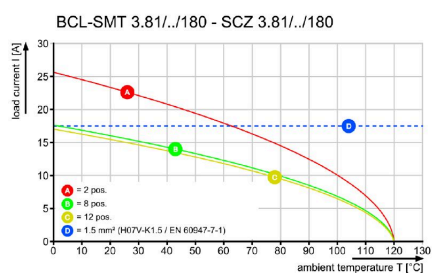
Product image



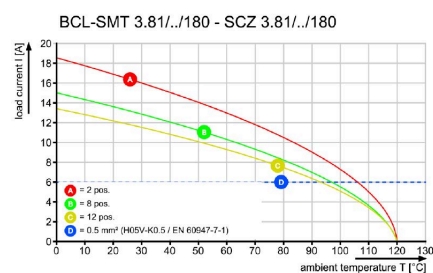
Dimensional drawing



Graph



Graph



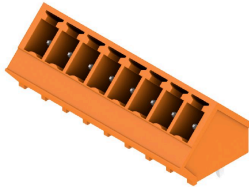
BCL-SMT 3.81/04/180 1.5SN BK BX

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Counterpart

SC 3.81/135G



The SC pin header with 135° wire outlet direction: the 135° angle exists between the plugging direction and the solder pin. The wire outlet direction is then diagonal or 45° to the PCB.

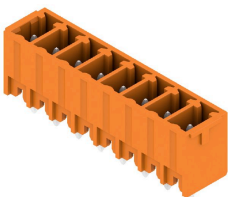
- More freedom when designing components and devices.
- Easy access and a high component density when multiple interfaces are arranged in parallel within a single plugging area
- The housing design is application-friendly because of the additional optional wire outlet direction.
- Available in closed (G) and screw flange (F) versions.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SC 3.81/04/135G 3.2SN B... | Version |
| Order No. | 1976420000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248684526 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |
| Type | SC 3.81/04/135G 3.2SN G... | Version |
| Order No. | 1976030000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248684373 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, Pale green, Box |
| Type | SC 3.81/04/135G 3.2SN O... | Version |
| Order No. | 1975800000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248684168 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, orange, Box |

SC 3.81/180G



The SC pin header has a perpendicular (standing) plugging direction in relation to the PCB. It is available in closed (G) and screw flange (F) versions.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SC 3.81/04/180G 3.2SN O... | Version |
| Order No. | 1942860000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248654734 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, orange, Box |
| Type | SC 3.81/04/180G 3.2SN G... | Version |
| Order No. | 1793630000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248230754 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): |
| Qty. | 108 ST | 3.2 mm, tinned, Pale green, Box |

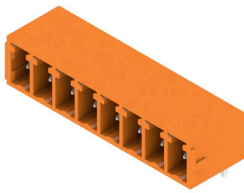
BCL-SMT 3.81/04/180 1.5SN BK BX

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Counterpart

| | | |
|------------|----------------------------|---|
| Type | SC 3.81/04/180G 3.2SN B... | Version |
| Order No. | 1793540000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248230457 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

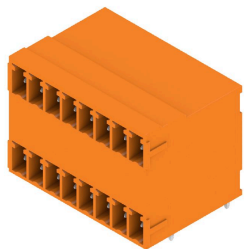
SC 3.81/90G

The SC pin header has a parallel (recumbent) plugging direction in relation to the PCB. It is available in closed (G) and screw flange (F) versions.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors. They support a flood-light display and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SC 3.81/04/90G 3.2SN OR... | Version |
| Order No. | 1942070000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248655502 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): |
| Qty. | 108 ST | 3.2 mm, tinned, orange, Box |
| Type | SC 3.81/04/90G 3.2SN GN... | Version |
| Order No. | 1793260000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248227730 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): |
| Qty. | 108 ST | 3.2 mm, tinned, Pale green, Box |
| Type | SC 3.81/04/90G 3.2SN BK... | Version |
| Order No. | 1793150000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248227648 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): |
| Qty. | 108 ST | 3.2 mm, tinned, black, Box |

SCD 3.81/90G

Two-tier SCD pin header for wave soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 90° (recumbent)
- Connections at the same level and with access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

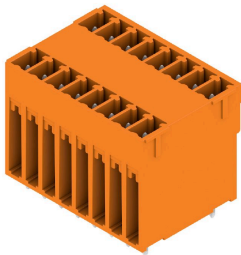
| | | |
|------------|----------------------------|--|
| Type | SCD 3.81/08/90G 3.2SN B... | Version |
| Order No. | 1973120000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248682683 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 100 ST | 3.2 mm, tinned, black, Box |
| Type | SCD 3.81/08/90G 3.2SN G... | Version |
| Order No. | 1972960000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248682539 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, Light green, Box |

BCL-SMT 3.81/04/180 1.5SN BK BX**Weidmüller Interface GmbH & Co. KG**

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Counterpart

| | | |
|------------|----------------------------|--|
| Type | SCD 3.81/08/90G 3.2SN O... | Version |
| Order No. | 1972810000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248682386 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 72 ST | 3.2 mm, tinned, orange, Box |

SCD 3.81/180G

Two-tier SCD pin header for wave soldering.

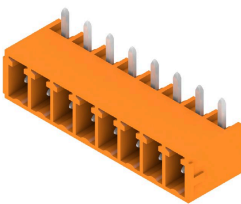
- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 180° (standing).
- Connections at the same level and with access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SCD 3.81/08/180G 3.2SN ... | Version |
| Order No. | 1030280000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248759453 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): |
| Qty. | 72 ST | 3.2 mm, tinned, black, Box |

| | | |
|------------|----------------------------|---|
| Type | SCD 3.81/08/180G 3.2SN ... | Version |
| Order No. | 1029950000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248759057 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): |
| Qty. | 72 ST | 3.2 mm, tinned, orange, Box |

SC 3.81/270G

The SC pin header in 270°-outlet direction: the 270° angle exists between the plugging direction and the solder pin. The plugging direction is then parallel to the PCB. Sockets blocks, however, have an overhead plugging angle.

- More freedom when designing components and devices.
- A high component density when multiple PCBs are arranged in parallel within one housing
- The housing design is application-friendly because of the additional optional wire outlet direction.
- Available in closed (G) and screw flange (F) versions.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SC 3.81/04/270G 3.2SN B... | Version |
| Order No. | 1037890000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248766444 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

BCL-SMT 3.81/04/180 1.5SN BK BX

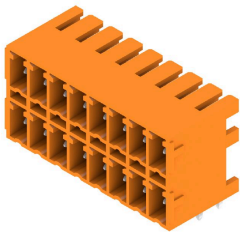
Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

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Counterpart

| | | |
|------------|----------------------------|---|
| Type | SC 3.81/04/270G 3.2SN O... | Version |
| Order No. | 1037520000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248766147 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, orange, Box |

SCDN 3.81/90G



Extra flat two-tier SCDN pin header for wave soldering.

- Two compact interfaces are used with the flat BCF 3.81 (PUSH IN) socket block.
- Available as 90° (recumbent).
- Connections on a single level, allowing access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SCDN 3.81/08/90G 3.2SN ... | Version |
| Order No. | 1040820000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248769674 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |
| Type | SCDN 3.81/08/90G 3.2SN ... | Version |
| Order No. | 1040430000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248769094 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, orange, Box |

SCDV 3.81/180G



Two-tier SCDV pin header for wave soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 180° (standing).
- Connections at two offset levels and open access to each row.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SCDV 3.81/08/180G 3.2SN... | Version |
| Order No. | 1034510000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248763337 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, orange, Box |

BCL-SMT 3.81/04/180 1.5SN BK BX

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Counterpart

SCDV 3.81/90G



Two-tier SCDV pin header for wave soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 90° (recumbent)
- Connections at two offset levels and with open access to each row.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SCDV 3.81/08/90G 3.2SN ... | Version |
| Order No. | 1032450000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248771721 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |
| Type | SCDV 3.81/08/90G 3.2SN ... | Version |
| Order No. | 1032280000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248771578 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, Pale green, Box |
| Type | SCDV 3.81/08/90G 3.2SN ... | Version |
| Order No. | 1032120000 | PCB plug-in connector, male header, closed side, THT solder |
| GTIN (EAN) | 4032248771424 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, orange, Box |

SCD-THR 3.81/90G



High-temperature-resistant two-tier SCD-THR pin header for reflow soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 90° (recumbent)
- Connections at the same level and with access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

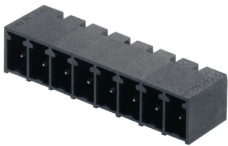
General ordering data

| | | |
|------------|----------------------------|--|
| Type | SCD-THR 3.81/08/90G 1.5... | Version |
| Order No. | 1974050000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248683567 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SCD-THR 3.81/08/90G 3.2... | Version |
| Order No. | 1973750000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248683260 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

BCL-SMT 3.81/04/180 1.5SN BK BX

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

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Counterpart**SC-SMT 3.81/90G Box**

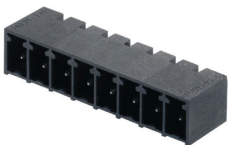
High-temperature-resistant pin header (SC-SMT 90G) in 3.81-mm pitch (0.15 inch)

- Plugging direction parallel to PCB (recumbent)
- Closed (G)
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SC-SMT 3.81/04/90G 1.5S... | Version |
| Order No. | 1862980000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248428083 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SC-SMT 3.81/04/90G 3.2S... | Version |
| Order No. | 1862490000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248427628 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

SC-SMT 3.81/90G Tape

High-temperature-resistant pin header (SC-SMT 90G) in 3.81-mm pitch (0.15 inch)

- Plugging direction parallel to PCB (recumbent)
- Closed (G)
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

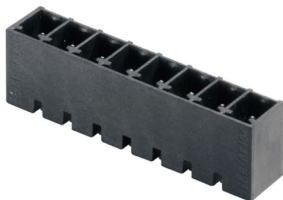
General ordering data

| | | |
|------------|----------------------------|--|
| Type | SC-SMT 3.81/04/90G 1.5S... | Version |
| Order No. | 1863160000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248428359 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): |
| Qty. | 400 ST | 1.5 mm, tinned, black, Tape |
| Type | SC-SMT 3.81/04/90G 3.2S... | Version |
| Order No. | 1862860000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248427796 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): |
| Qty. | 400 ST | 3.2 mm, tinned, black, Tape |

BCL-SMT 3.81/04/180 1.5SN BK BX

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Counterpart**SC-SMT 3.81/180G Box**

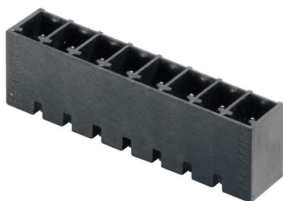
High-temperature-resistant pin header (SC-SMT 180G) in 3.81-mm pitch (0.15 inch)

- Plugging direction is perpendicular to PCB (standing)
- Closed (G) .
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SC-SMT 3.81/04/180G 1.5... | Version |
| Order No. | 1863750000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248428915 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SC-SMT 3.81/04/180G 3.2... | Version |
| Order No. | 1862950000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248428137 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

SC-SMT 3.81/180G Tape

High-temperature-resistant pin header (SC-SMT 180G) in 3.81-mm pitch (0.15 inch)

- Plugging direction is perpendicular to PCB (standing)
- Closed (G) .
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SC-SMT 3.81/04/180G 1.5... | Version |
| Order No. | 1864290000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248429363 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): |
| Qty. | 300 ST | 1.5 mm, tinned, black, Tape |
| Type | SC-SMT 3.81/04/180G 3.2... | Version |
| Order No. | 1863490000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248428571 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): |
| Qty. | 300 ST | 3.2 mm, tinned, black, Tape |

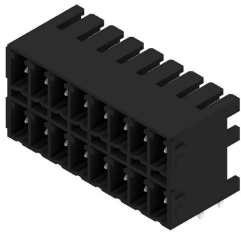
BCL-SMT 3.81/04/180 1.5SN BK BX

Weidmüller Interface GmbH & Co. KG
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Counterpart

SCDN-THR 3.81/90G



Extra flat high-temperature-resistant two-tier SCDN-THR pin header for reflow soldering.

- Two compact interfaces are used with the flat BCF 3.81 (PUSH IN) socket block.
- Available as 90° (recumbent).
- Connections on a single level, allowing access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SCDN-THR 3.81/08/90G 1.... | Version |
| Order No. | 1039290000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248772612 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SCDN-THR 3.81/08/90G 3.... | Version |
| Order No. | 1038970000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248772315 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

SCD-THR 3.81/180G



High-temperature-resistant two-tier SCD-THR pin header for reflow soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 90° (recumbent)
- Connections at the same level and with access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SCD-THR 3.81/08/180G 1.... | Version |
| Order No. | 1031320000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248760350 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SCD-THR 3.81/08/180G 3.... | Version |
| Order No. | 1030970000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248760053 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

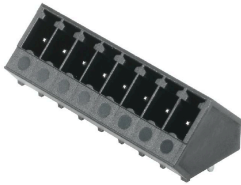
BCL-SMT 3.81/04/180 1.5SN BK BX

Weidmüller Interface GmbH & Co. KG
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Counterpart

SC-SMT 3.81/135G



The high-temperature-resistant SC-SMT pin header with 135° wire outlet direction: the 135° angle exists between the plugging direction and the solder pin. The wire outlet direction is then diagonal or 45° to the PCB.

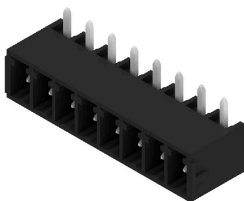
- More freedom when designing components and devices.
- Easy access and a high component density when multiple interfaces are arranged in parallel within a single plugging area
- The housing design is application-friendly because of the additional optional wire outlet direction.
- Available as closed (G) and with solder flange (LF).
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SC-SMT 3.81/04/135G 1.5... | Version |
| Order No. | 1977950000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248685530 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SC-SMT 3.81/04/135G 3.2... | Version |
| Order No. | 1977220000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248685233 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

SC-SMT 3.81/270G



The SC-SMT pin header in 270°-outlet direction: the 270° angle exists between the plugging direction and the solder pin. The plugging direction is then parallel to the PCB. Sockets blocks, however, have an overhead plugging angle.

- More freedom when designing components and devices.
- A high component density when multiple PCBs are arranged in parallel within one housing
- The housing design is application-friendly because of the additional optional wire outlet direction.
- Available in closed (G) and screw flange (F) versions.
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SC-SMT 3.81/04/270G 3.2... | Version |
| Order No. | 1036510000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248765102 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

BCL-SMT 3.81/04/180 1.5SN BK BX

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Counterpart**SCDV-THR 3.81/180G**

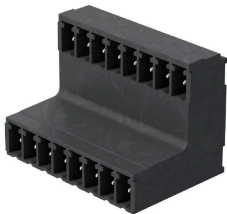
High-temperature-resistant two-tier SCDV-THR pin header for reflow soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 90° (recumbent)
- Connections at two offset levels and open access to each row.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SCDV-THR 3.81/08/180G 1... | Version |
| Order No. | 1035810000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248763900 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SCDV-THR 3.81/08/180G 3... | Version |
| Order No. | 1035490000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248764259 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

SCDV-THR 3.81/90G

High-temperature-resistant two-tier SCDV-THR pin header for reflow soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 90° (recumbent)
- Connections at two offset levels and open access to each row.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SCDV-THR 3.81/08/90G 1... | Version |
| Order No. | 1033840000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248762736 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 1.5 mm, tinned, black, Box |
| Type | SCDV-THR 3.81/08/90G 3... | Version |
| Order No. | 1033520000 | PCB plug-in connector, male header, closed side, THT/THR solder |
| GTIN (EAN) | 4032248762439 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): |
| Qty. | 50 ST | 3.2 mm, tinned, black, Box |

BCL-SMT 3.81/04/180 1.5SN BK BX

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Klingenbergstraße 26

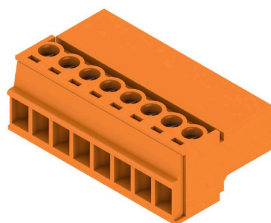
D-32758 Detmold

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Counterpart

SCZ 3.81/180G



The inverted SCZ pin plug with clamping-yoke screw connection is designed for straight wire connections in 3.81-mm pitch. It can be used in two ways:

- for wire-to-wire connections together with the BCZ
- as a mating plug for the touch-safe BCL socket block on the PCB.

The SCZ is available in four different versions:

- Without flange ("G", closed)
- With standard flange ("F", with socket nut)
- With inverted flange ("FI", with screw)
- and with Weidmüller's patented release latch for a tool-free, no-strain disconnect

The SCZ provides space for labelling and can be coded.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SCZ 3.81/04/180G SN BK ... | Version |
| Order No. | 1970030000 | PCB plug-in connector, male plug, 3.81 mm, Number of poles: 4, |
| GTIN (EAN) | 4032248679454 | 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², |
| Qty. | 50 ST | Box |
| Type | SCZ 3.81/04/180G SN GN ... | Version |
| Order No. | 1969780000 | PCB plug-in connector, male plug, 3.81 mm, Number of poles: 4, |
| GTIN (EAN) | 4032248679300 | 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², |
| Qty. | 50 ST | Box |
| Type | SCZ 3.81/04/180G SN OR ... | Version |
| Order No. | 1969560000 | PCB plug-in connector, male plug, 3.81 mm, Number of poles: 4, |
| GTIN (EAN) | 4032248679157 | 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², |
| Qty. | 50 ST | Box |