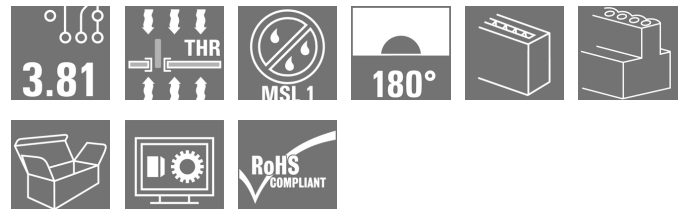


OMNIMATE Signal - series BC/SC 3.81 BCL-SMT 3.81/04/180 1.5SN BK BX

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www.weidmueller.com

Product image



Similar to illustration

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

| | |
|--------------|--|
| Type | BCL-SMT 3.81/04/180 1.5SN BK BX |
| Order No. | 1976520000 |
| 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 |
| GTIN (EAN) | 4032248679003 |
| Qty. | 50 pc(s). |
| Product data | IEC: 320 V / 17.5 A UL: 300 V / 10 A |
| Packaging | Box |

OMNIMATE Signal - series BC/SC 3.81

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

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Technical data

Dimensions and weights

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

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) | 0.15 inch | 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 |
| Tolerance of solder pin position | ± 0.1 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 | 0.45 inch | Number of rows | 1 |
| Pin series quantity | 1 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20 | Volume resistance | ≤ 5mΩ |
| Can be coded | Yes | Plugging cycles | 25 |
| 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 | IIIa |
| Comparative Tracking Index (CTI) | ≥ 175 | Insulation strength | ≥ 10 ⁸ Ω |
| Moisture Level (MSL) | 1 | UL 94 flammability rating | V-0 |
| GWIT | 930 °C | GWFI | 960 °C |
| Contact material | Copper 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. | -25 °C | Storage temperature, max. | 50 °C |
| Max. relative humidity during storage | 70 % | 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 |
| 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 1s with 76 A |


OMNIMATE Signal - series BC/SC 3.81
BCL-SMT 3.81/04/180 1.5SN BK BX

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Technical data
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) |  | 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 | 25 mm |
| VPE width | 90 mm | VPE height | 125 mm |

Classifications

| | | | |
|-------------|-------------|------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| eClass 9.0 | 27-44-04-02 | eClass 9.1 | 27-44-04-02 |
| eClass 10.0 | 27-44-04-02 | UNSPSC | 30-21-18-01 |

Notes

| | |
|----------------|--|
| 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. |
| 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. |

Approvals

| | |
|-----------|---|
| Approvals |  |
| ROHS | Conform |

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Technical data

Downloads

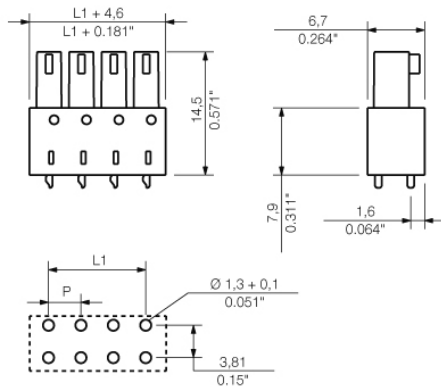
| | |
|---|--|
| Approval/Certificate/Document of Conformity | Declaration of the Manufacturer |
| Brochure/Catalogue | FL DRIVES EN MB SMT EN FL DRIVES DE MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN |
| Engineering Data | EPLAN, WSCAD |
| Engineering Data | STEP |
| White paper surface mount technology | Download Whitepaper |

OMNIMATE Signal - series BC/SC 3.81 BCL-SMT 3.81/04/180 1.5SN BK BX

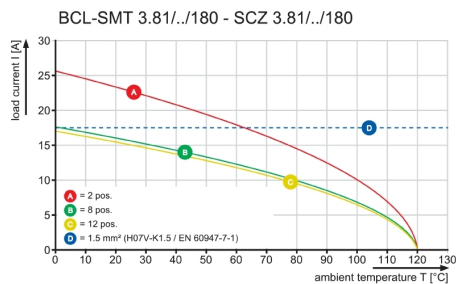
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Drawings

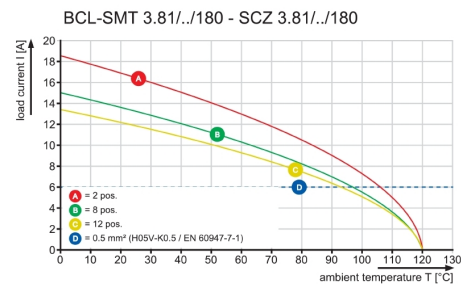
Dimensional drawing



Graph



Graph



OMNIMATE Signal - series BC/SC 3.81 BCL-SMT 3.81/04/180 1.5SN BK BX

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Mating connector (fully pluggable)

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 | Product data | Packaging |
|------------|----------------------------|--|---------------------|-----------|
| Order No. | 1032280000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248771578 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, Pale green, Box | | |
| Type | SCDV 3.81/08/90G 3.2SN ... | Version | Product data | Packaging |
| Order No. | 1032120000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248771424 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, orange, Box | | |
| Type | SCDV 3.81/08/90G 3.2SN ... | Version | Product data | Packaging |
| Order No. | 1032450000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248771721 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 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 | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1036510000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248765102 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |

OMNIMATE Signal - series BC/SC 3.81 BCL-SMT 3.81/04/180 1.5SN BK BX

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Mating connector (fully pluggable)

| Type | SC-SMT 3.81/04/270G 1.5 ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1036850000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248765430 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 mm, tinned, black, Box | | |

| Type | SC-SMT 3.81/04/270G 1.5 ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1036670000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248765287 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 mm, tinned, Pale green, 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 BK ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1793150000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248227648 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |

| Type | SC 3.81/04/90G 3.2SN OR ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1942070000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248655502 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, orange, Box | | |

| Type | SC 3.81/04/90G 3.2SN GN ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1793260000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248227730 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, Pale green, Box | | |

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Mating connector (fully pluggable)

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 | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1037890000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248766444 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |
| Type | SC 3.81/04/270G 3.2SN G ... | Version | Product data | Packaging |
| Order No. | 1037680000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248766291 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, Pale green, Box | | |
| Type | SC 3.81/04/270G 3.2SN O ... | Version | Product data | Packaging |
| Order No. | 1037520000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248766147 | connection, 3.81 mm, Number of poles: 4, 270°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, orange, Box | | |

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 1.5... | Version | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1039290000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248772612 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 mm, tinned, black, Box | | |

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Mating connector (fully pluggable)

| Type | SCDN-THR 3.81/08/90G 3. ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---|-----------|
| Order No. | 1038970000 | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box | IEC: 320 V / 17.5 A UL: 300 V / 11 A | Box |
| GTIN (EAN) | 4032248772315 | | | |
| Qty. | 50 pc(s). | | | |
| Type | SCDN-THR 3.81/08/90G 1. ... | Version | Product data | Packaging |
| Order No. | 1039130000 | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): 1.5 mm, tinned, Pale green, Box | IEC: 320 V / 17.5 A UL: 300 V / 11 A | Box |
| GTIN (EAN) | 4032248772469 | | | |
| Qty. | 50 pc(s). | | | |

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

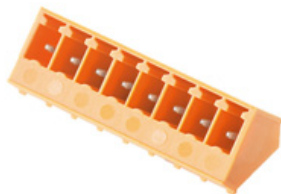
| Type | SC-SMT 3.81/04/180G 3.2 ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---|-----------|
| Order No. | 1863490000 | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): 3.2 mm, tinned, black, Tape | IEC: 320 V / 17.5 A UL: 300 V / 11 A | Tape |
| GTIN (EAN) | 4032248428571 | | | |
| Qty. | 300 pc(s). | | | |
| Type | SC-SMT 3.81/04/180G 1.5 ... | Version | Product data | Packaging |
| Order No. | 1864290000 | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): 1.5 mm, tinned, black, Tape | IEC: 320 V / 17.5 A UL: 300 V / 11 A | Tape |
| GTIN (EAN) | 4032248429363 | | | |
| Qty. | 300 pc(s). | | | |

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Mating connector (fully pluggable)

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 G ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1976030000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248684373 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, Pale green, Box | | |
| Type | SC 3.81/04/135G 3.2SN B ... | Version | Product data | Packaging |
| Order No. | 1976420000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248684526 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |
| Type | SC 3.81/04/135G 3.2SN O ... | Version | Product data | Packaging |
| Order No. | 1975800000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248684168 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 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 3.2 ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1973750000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248683260 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |

OMNIMATE Signal - series BC/SC 3.81 BCL-SMT 3.81/04/180 1.5SN BK BX

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Mating connector (fully pluggable)

| Type | SCD-THR 3.81/08/90G 1.5 ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1974050000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248683567 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 mm, tinned, black, Box | | |

SCDV 3.81/180G



Two-tier SCDV pin header for wave soldering.

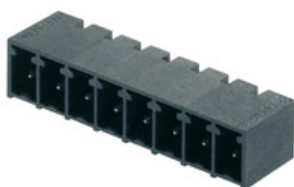
- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 180° (standing).
- Connections at two offset levels and open access to each row.
- Space for labelling and coding
- Packed in cardboard box.

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 | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1034840000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248763634 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |
| Type | SCDV 3.81/08/180G 3.2SN ... | Version | Product data | Packaging |
| Order No. | 1034510000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248763337 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, orange, Box | | |
| Type | SCDV 3.81/08/180G 3.2SN ... | Version | Product data | Packaging |
| Order No. | 1034670000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248763481 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, Pale green, 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 | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1863160000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Tape |
| GTIN (EAN) | 4032248428359 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 400 pc(s). | 1.5 mm, tinned, black, Tape | | |

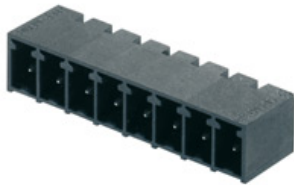
OMNIMATE Signal - series BC/SC 3.81 BCL-SMT 3.81/04/180 1.5SN BK BX

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Mating connector (fully pluggable)

| Type | SC-SMT 3.81/04/90G 3.2S ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1862860000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Tape |
| GTIN (EAN) | 4032248427796 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 400 pc(s). | 3.2 mm, tinned, black, Tape | | |

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 3.2S ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1862490000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248427628 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |
| Type | SC-SMT 3.81/04/90G 1.5S ... | Version | Product data | Packaging |
| Order No. | 1862980000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248428083 | connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 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 3.2S ... | Version | Product data | Packaging |
|------------|-------------------------------|--|---------------------|-----------|
| Order No. | 1033520000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248762439 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |

OMNIMATE Signal - series BC/SC 3.81

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

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 www.weidmueller.com

Mating connector (fully pluggable)

| Type | SCDV-THR 3.81/08/90G 1. ... | Version | Product data | Packaging |
|------------|-----------------------------|--|---|-----------|
| Order No. | 1033840000 | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): 1.5 mm, tinned, black, Box | IEC: 320 V / 17.5 A UL: 300 V / 11 A | Box |
| GTIN (EAN) | 4032248762736 | | | |
| Qty. | 50 pc(s). | | | |
| Type | SCDV-THR 3.81/08/90G 1. ... | Version | Product data | Packaging |
| Order No. | 1033670000 | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): 1.5 mm, tinned, Pale green, Box | IEC: 320 V / 17.5 A UL: 300 V / 11 A | Box |
| GTIN (EAN) | 4032248762583 | | | |
| Qty. | 50 pc(s). | | | |

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 | Product data | Packaging |
|------------|-----------------------------|--|---|-----------|
| Order No. | 1031320000 | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): 1.5 mm, tinned, black, Box | IEC: 320 V / 17.5 A UL: 300 V / 11 A | Box |
| GTIN (EAN) | 4032248760350 | | | |
| Qty. | 50 pc(s). | | | |
| Type | SCD-THR 3.81/08/180G 3. ... | Version | Product data | Packaging |
| Order No. | 1030970000 | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box | IEC: 320 V / 17.5 A UL: 300 V / 11 A | Box |
| GTIN (EAN) | 4032248760053 | | | |
| Qty. | 50 pc(s). | | | |

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 G ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---|-----------|
| Order No. | 1793630000 | PCB plug-in connector, male header, closed side, THT solder connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): 3.2 mm, tinned, Pale green, Box | IEC: 320 V / 17.5 A UL: 300 V / 10 A | Box |
| GTIN (EAN) | 4032248230754 | | | |
| Qty. | 50 pc(s). | | | |

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Mating connector (fully pluggable)

| Type | SC 3.81/04/180G 3.2SN O ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1942860000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248654734 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, orange, Box | | |
| Type | SC 3.81/04/180G 3.2SN B ... | Version | Product data | Packaging |
| Order No. | 1793540000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248230457 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 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 | Product data | Packaging |
|------------|-----------------------------|--|---------------------|-----------|
| Order No. | 1973120000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248682683 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |
| Type | SCD 3.81/08/90G 3.2SN G ... | Version | Product data | Packaging |
| Order No. | 1972960000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248682539 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, Pale green, Box | | |
| Type | SCD 3.81/08/90G 3.2SN O ... | Version | Product data | Packaging |
| Order No. | 1972810000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248682386 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, orange, Box | | |

OMNIMATE Signal - series BC/SC 3.81 BCL-SMT 3.81/04/180 1.5SN BK BX

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Mating connector (fully pluggable)

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 | Product data | Packaging |
|------------|----------------------------|---|---------------------|-----------|
| Order No. | 1030280000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248759453 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |
| Type | SCD 3.81/08/180G 3.2SN ... | Version | Product data | Packaging |
| Order No. | 1029950000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248759057 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, orange, Box | | |
| Type | SCD 3.81/08/180G 3.2SN ... | Version | Product data | Packaging |
| Order No. | 1030120000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248759231 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, Pale green, Box | | |

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 3 ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1035490000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248764259 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |
| Type | SCDV-THR 3.81/08/180G 1 ... | Version | Product data | Packaging |
| Order No. | 1035660000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248764402 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 mm, tinned, Pale green, Box | | |

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Mating connector (fully pluggable)

| Type | SCDV-THR 3.81/08/180G 1 ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1035810000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248763900 | connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 mm, tinned, black, Box | | |

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

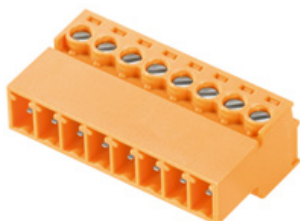
| Type | SC-SMT 3.81/04/135G 1.5 ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1977950000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248685530 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 mm, tinned, black, Box | | |
| Type | SC-SMT 3.81/04/135G 3.2 ... | Version | Product data | Packaging |
| Order No. | 1977220000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248685233 | connection, 3.81 mm, Number of poles: 4, 135°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |

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Mating connector (fully pluggable)

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 | Product data | Packaging |
|------------|----------------------------|---|---|-----------|
| Order No. | 1970030000 | PCB plug-in connector, male plug, 3.81 mm, Number of poles: 4, | IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² | Box |
| GTIN (EAN) | 4032248679454 | 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , | UL: 300 V / 10 A / AWG 28 - AWG 16 | |
| Qty. | 50 pc(s). | Box | | |
| Type | SCZ 3.81/04/180G SN OR ... | Version | Product data | Packaging |
| Order No. | 1969560000 | PCB plug-in connector, male plug, 3.81 mm, Number of poles: 4, | IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² | Box |
| GTIN (EAN) | 4032248679157 | 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , | UL: 300 V / 10 A / AWG 28 - AWG 16 | |
| Qty. | 50 pc(s). | Box | | |
| Type | SCZ 3.81/04/180G SN GN ... | Version | Product data | Packaging |
| Order No. | 1969780000 | PCB plug-in connector, male plug, 3.81 mm, Number of poles: 4, | IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² | Box |
| GTIN (EAN) | 4032248679300 | 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , | UL: 300 V / 10 A / AWG 28 - AWG 16 | |
| Qty. | 50 pc(s). | 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 | Product data | Packaging |
|------------|----------------------------|--|---------------------|-----------|
| Order No. | 1040820000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248769674 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |

OMNIMATE Signal - series BC/SC 3.81 BCL-SMT 3.81/04/180 1.5SN BK BX

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Mating connector (fully pluggable)

| Type | SCDN 3.81/08/90G 3.2SN ... | Version | Product data | Packaging |
|------------|----------------------------|--|---------------------|-----------|
| Order No. | 1040430000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248769094 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, orange, Box | | |
| Type | SCDN 3.81/08/90G 3.2SN ... | Version | Product data | Packaging |
| Order No. | 1040650000 | PCB plug-in connector, male header, closed side, THT solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248769520 | connection, 3.81 mm, Number of poles: 8, 90°, Solder pin length (l): | UL: 300 V / 10 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, Pale green, Box | | |

SC-SMT 3.81/180G Box



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

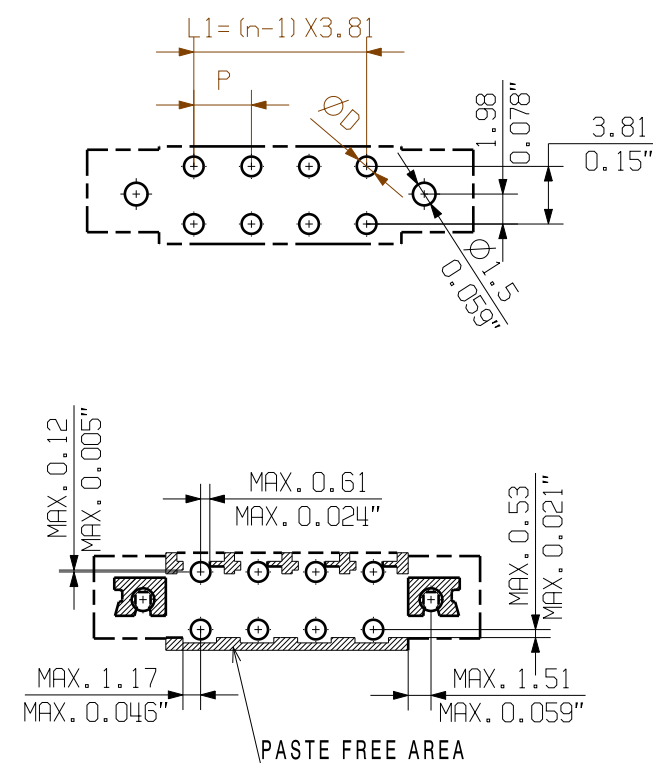
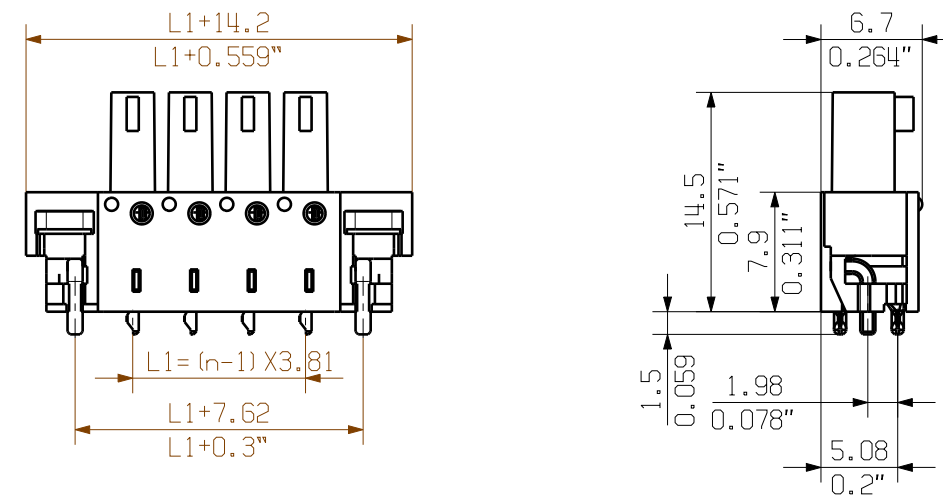
- Plugging direction is perpendicular to PCB (standing)
- Closed (G) .
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

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 3.2 ... | Version | Product data | Packaging |
|------------|-----------------------------|---|---------------------|-----------|
| Order No. | 1862950000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248428137 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 3.2 mm, tinned, black, Box | | |
| Type | SC-SMT 3.81/04/180G 1.5 ... | Version | Product data | Packaging |
| Order No. | 1863750000 | PCB plug-in connector, male header, closed side, THT/THR solder | IEC: 320 V / 17.5 A | Box |
| GTIN (EAN) | 4032248428915 | connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l): | UL: 300 V / 11 A | |
| Qty. | 50 pc(s). | 1.5 mm, tinned, black, Box | | |

BCL-SMT 3.81/.../180LFI 1.5...



n=NO OF POLES
P=PITCH

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

| | | | | | | | | |
|---|--|--------------------------|------------|--------|---|----------------|-----------|------|
|  | | 2605/5 28.08.12 SHI_S | | 00 |  | C 40405 | 04 | |
| | | MODIFICATION | | | | | | |
| | | DATE | | NAME | | | | |
|  | | DRAWN | 19.02.2008 | SHI_S | BCL-SMT 3.81/.../180...1.5... LOETANSCHLUSS BUCHSENLEISTE SOLDER CONNECTION SOCKET CONNECTOR | | | |
| SCALE: 2/1 | | RESPONSIBLE | | XU_S | | | | |
| SUPERSEDES: - | | CHECKED | 29.08.2012 | ZHOU_N | | | | |
| SUPERSEDED BY: . | | APPROVED | | XU_S | PRODUCT FILE: BCL-SMT 3.81 | | | 7084 |

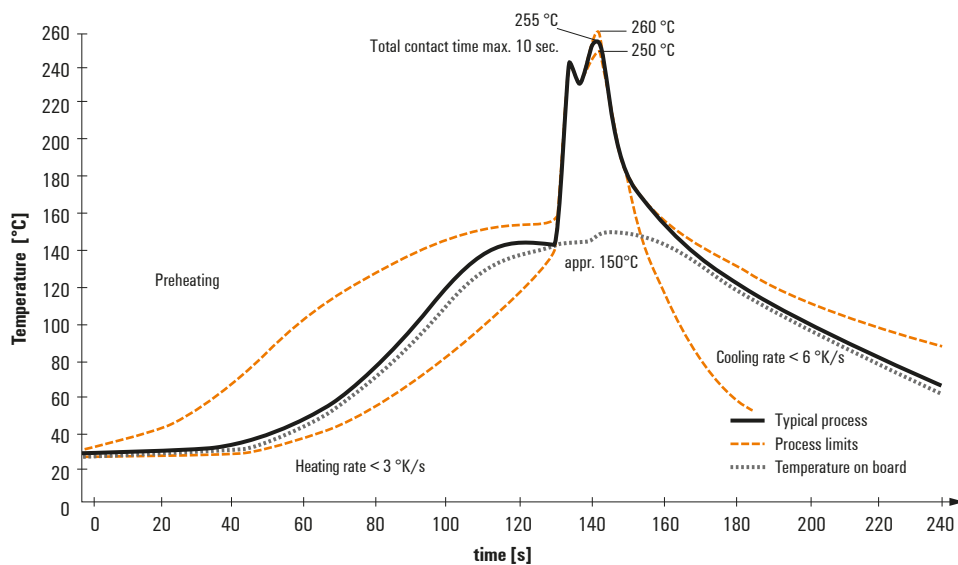
Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

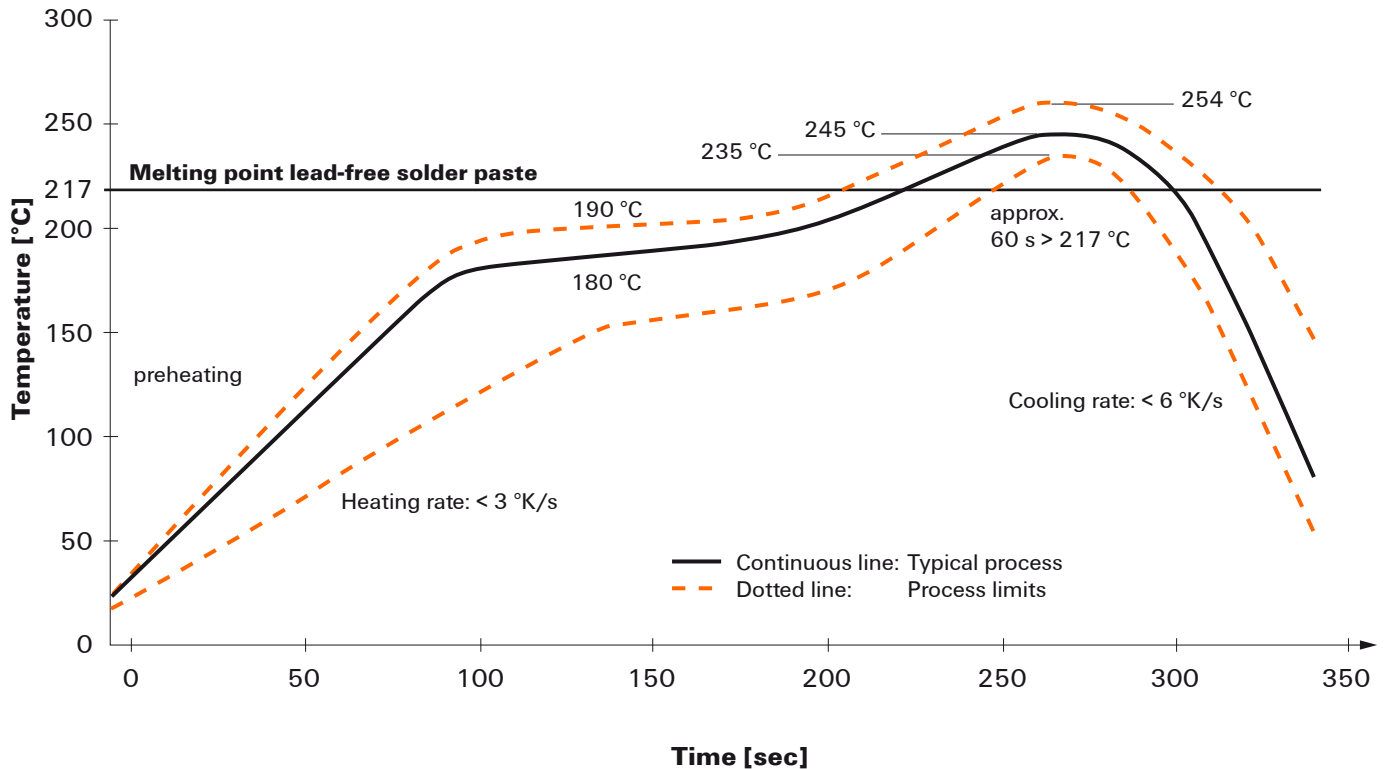
- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.

Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
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Fax: +49 5231 14-292083
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Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3\text{K/s}$. In parallel the solder paste is 'activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at $\geq -6\text{K/s}$ solder is cured. Board and components cool down while avoiding cold cracks.