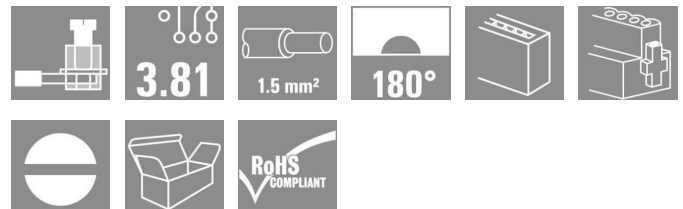


## OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180F SN GN BX

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Fax: +49 5231 14292083  
[www.weidmueller.com](http://www.weidmueller.com)



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

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         | BCZ 3.81/04/180F SN GN BX                                                                                                                          |
| Order No.    | <a href="#">1793060000</a>                                                                                                                         |
| Version      | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box |
| GTIN (EAN)   | 4032248227143                                                                                                                                      |
| Qty.         | 50 pc(s).                                                                                                                                          |
| Product data | IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²<br>UL: 300 V / 10 A / AWG 28 - AWG 16                                                                          |
| Packaging    | Box                                                                                                                                                |

# OMNIMATE Signal - series BC/SC 3.81

## BCZ 3.81/04/180F SN GN BX

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## Technical data

### Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 4.28 g |
|------------|--------|

### System parameters

|                                              |                                     |                                            |                   |
|----------------------------------------------|-------------------------------------|--------------------------------------------|-------------------|
| Product family                               | OMNIMATE Signal - series BC/SC 3.81 | Type of connection                         | Field connection  |
| Wire connection method                       | Clamping yoke connection            | Pitch in mm (P)                            | 3.81 mm           |
| Pitch in inches (P)                          | 0.15 inch                           | Conductor outlet direction                 | 180°              |
| No. of poles                                 | 4                                   | L1 in mm                                   | 11.43 mm          |
| L1 in inches                                 | 0.45 inch                           | Number of rows                             | 1                 |
| Pin series quantity                          | 1                                   | Rated cross-section                        | 1 mm <sup>2</sup> |
| 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                            | 6.00 mΩ                             | Can be coded                               | Yes               |
| Stripping length                             | 7 mm                                | Tightening torque for screw flange, min.   | 0.2 Nm            |
| Tightening torque for screw flange, max.     | 0.3 Nm                              | Tightening torque, min.                    | 0.2 Nm            |
| Tightening torque, max.                      | 0.25 Nm                             | Clamping screw                             | M 2               |
| Screwdriver blade                            | 0.4 x 2.5                           | Screwdriver blade standard                 | DIN 5264          |
| Plugging cycles                              | 25                                  | push-in force/pole                         | 0 N               |
| Packaging                                    | Box                                 |                                            |                   |

### Material data

|                                       |          |                                       |                     |
|---------------------------------------|----------|---------------------------------------|---------------------|
| Insulating material                   | PA GF    | Colour                                | Pale green          |
| Colour chart (similar)                | RAL 6021 | Insulating material group             | II                  |
| CTI                                   | ≥ 550    | Insulation resistance                 | ≥ 10 <sup>8</sup> Ω |
| UL 94 flammability rating             | V-0      | Contact material                      | Cu-Leg              |
| Contact surface                       | tinned   | Storage temperature, min.             | -25 °C              |
| Storage temperature, max.             | 55 °C    | Max. relative humidity during storage | 80 %                |
| Operating temperature, min.           | -50 °C   | Operating temperature, max.           | 120 °C              |
| Temperature range, installation, min. | -25 °C   | Temperature range, installation, max. | 120 °C              |

### Conductors suitable for connection

|                                                 |                          |                                                 |                     |
|-------------------------------------------------|--------------------------|-------------------------------------------------|---------------------|
| Clamping range, rated connection, min.          | 0.08 mm <sup>2</sup>     | Clamping range, rated connection, max.          | 1.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min.         | AWG 28                   | Wire connection cross section AWG, max.         | AWG 16              |
| Solid, min. H05(07) V-U                         | 0.2 mm <sup>2</sup>      | Solid, max. H05(07) V-U                         | 1.5 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K                      | 0.2 mm <sup>2</sup>      | Flexible, max. H05(07) V-K                      | 1.5 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm <sup>2</sup>      | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1.5 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.2 mm <sup>2</sup>      | w. wire end ferrule, DIN 46228 pt 1, max.       | 1.5 mm <sup>2</sup> |
| Plug gauge acc. to EN 60999 a x b; Ø            | 2.4 mm x 1.5 mm ; 2.4 mm |                                                 |                     |

**OMNIMATE Signal - series BC/SC 3.81  
BCZ 3.81/04/180F SN GN BX**

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**Technical data**
**Rated data acc. to IEC**

|                                                                           |                        |                                                                       |                  |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Ta = 20°C)                          | 17.5 A           |
| Rated current, max. no. of poles (Ta = 20°C)                              | 17.1 A                 | Rated current, min. no. of poles (Ta = 40°C)                          | 17 A             |
| Rated current, max. no. of poles (Ta = 40°C)                              | 15.2 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 |

**Rated data acc. to CSA**

|                               |                                                                                   |                               |                |
|-------------------------------|-----------------------------------------------------------------------------------|-------------------------------|----------------|
| Institute (CSA)               |  | Certificate No. (CSA)         | 200039-1121690 |
| Rated voltage (Use group B)   | 300 V                                                                             | Rated voltage (Use group C)   | 50 V           |
| Rated current (use group B)   | 8 A                                                                               | Rated current (use group C)   | 8 A            |
| Wire cross-section, AWG, min. | AWG 28                                                                            | Wire cross-section, AWG, max. | AWG 16         |
| Reference to approval values  | Specifications are maximum values, details - see approval certificate.            |                               |                |

**Rated data acc. to UL 1059**

|                               |                                                                                     |                               |        |
|-------------------------------|-------------------------------------------------------------------------------------|-------------------------------|--------|
| Institute (cURus)             |  | Certificate No. (cURus)       | E60693 |
| Rated voltage (use group B)   | 300 V                                                                               | Rated voltage (use group D)   | 300 V  |
| Rated current (use group B)   | 10 A                                                                                | Rated current (use group D)   | 10 A   |
| Wire cross-section, AWG, min. | AWG 28                                                                              | Wire cross-section, AWG, max. | AWG 16 |
| Reference to approval values  | Specifications are maximum values, details - see approval certificate.              |                               |        |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001284    | ETIM 4.0   | EC002637    |
| ETIM 5.0   | EC002637    | ETIM 6.0   | EC002637    |
| UNSPSC     | 30-21-18-10 | eClass 5.1 | 27-26-07-04 |
| eClass 6.2 | 27-26-07-04 | eClass 7.1 | 27-44-04-02 |
| eClass 8.1 | 27-44-04-02 | eClass 9.0 | 27-44-04-02 |
| eClass 9.1 | 27-44-04-02 |            |             |

**OMNIMATE Signal - series BC/SC 3.81  
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**Technical data****Notes**

Notes

- Additional colours on request
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

IPC conformity

The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

**Approvals**

Approvals



ROHS

Conform

**Downloads**

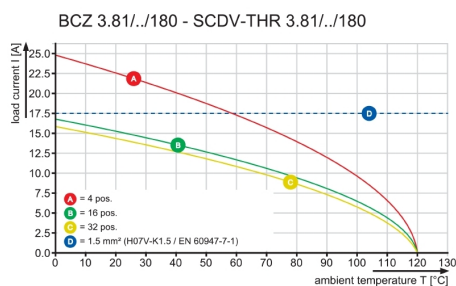
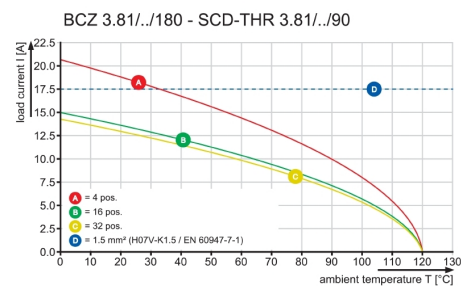
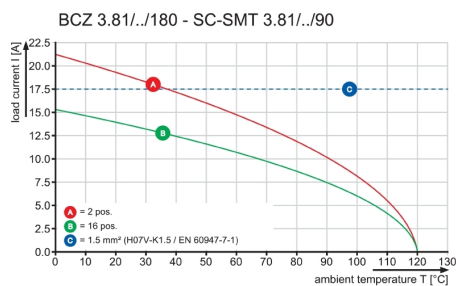
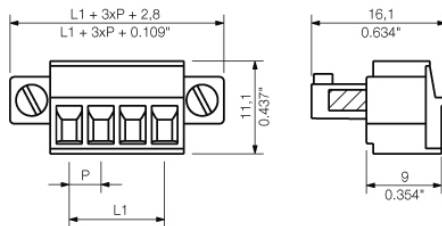
Safety notice

[Safety indication](#)

## OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180F SN GN BX

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## JM Jamaica

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W Interconnections Inc.  
United States



You can find all Weidmüller addresses and your local contact on the internet at: [www.weidmueller.com/countries](http://www.weidmueller.com/countries)

Let's connect.

Sales company 

Representation abroad 

without representation abroad 

|                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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