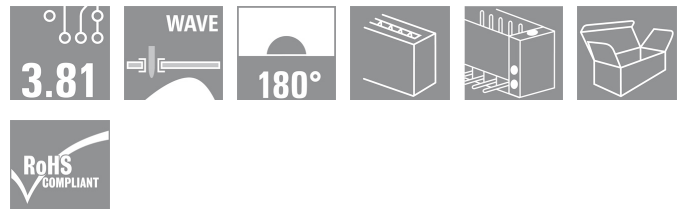


BC/SC 3.81 series
SC 3.81/10/180F 3.2SN GN BX

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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.

- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	1793850000
Type	SC 3.81/10/180F 3.2SN GN BX
Version	PCB plug-in connector, male header, Flange, Solder connection, 3.81 mm, No. of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, Pale green, Box
GTIN (EAN)	4032248230976
Qty.	50 pc(s).
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A
Packaging	Box

Creation date November 14, 2012 8:21:43 AM CET

BC/SC 3.81 series SC 3.81/10/180F 3.2SN GN BX

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Technical data

Dimensions and weights

Net weight	4 g
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System parameters

Product family	BC/SC 3.81 series	Mounting onto the PCB	Solder connection
Outgoing elbow	180°	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	No. of poles	10
Solder pin length (l)	3.2 mm	Pin dimensions	d = 1.0 mm, Octagonal
Can be coded	Yes	Number of rows	1
Number of solder pins per pole	1	Solder eyelet hole diameter (D)	1.2 mm
Solder eyelet hole diameter tolerance (D)+ 0,1 mm		L1 in mm	34.29 mm
L1 in inches	1.35 inch	Insulation resistance	10 ⁶ Ω
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	PA GF	Colour	Pale green
Insulating material group	II	UL 94 flammability rating	V-0
CTI	≥ 550	Contact material	Copper alloy
Contact surface	tinned	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	120 °C	Max. relative humidity during storage	93 %

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	17.5 A	Rated current, max. no. of poles (Tu=20°C)	17.1 A
Rated current, number of poles (Tu=40°C), min	17.5 A	Rated current, number of poles (Tu=40°C), max.	17.1 A
Rated voltage for surge voltage class / pollution degree III/3	160 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated voltage for surge voltage class / pollution degree II/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 76 A		

CSA rating data

Rated voltage (Use group B)	300 V	Rated current (use group B)	10 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A

UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	10 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A

Classifications

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 4.1	27-26-07-01	eClass 5.1	27-26-07-04
eClass 6.0	27-26-07-04	eClass 7.0	27-44-04-02

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Technical data**Notes**

Notes

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Specifications of diagram P = 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.

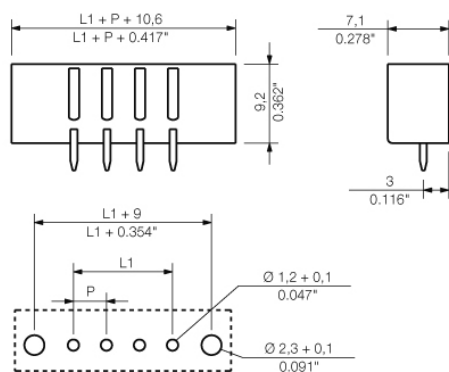
Approvals

Approvals



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SC 3.81/10/180F 3.2SN GN BX

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Drawings

BC/SC 3.81 series

SC 3.81/10/180F 3.2SN GN BX

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Mating connector (conditionally pluggable)

BCZ 3.81/90



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.

- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1798610000	BCZ 3.81/10/90 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248243242	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1939910000	BCZ 3.81/10/90 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656912	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1798750000	BCZ 3.81/10/90 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248243433	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

BC/SC 3.81 series
SC 3.81/10/180F 3.2SN GN BX

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Mating connector (conditionally pluggable)
BCZ 3.81/180


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.

- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1792920000	BCZ 3.81/10/180 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248227006	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1940810000	BCZ 3.81/10/180 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656028	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1792830000	BCZ 3.81/10/180 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248226917	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

BC/SC 3.81 series SC 3.81/10/180F 3.2SN GN BX

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Mating connector (conditionally pluggable)

BCZ 3.81/270



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.

- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1799070000	BCZ 3.81/10/270 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248243969	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1798980000	BCZ 3.81/10/270 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248243761	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1940270000	BCZ 3.81/10/270 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656561	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

BC/SC 3.81 series
SC 3.81/10/180F 3.2SN GN BX

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Mating connector (fully pluggable)
BCZ 3.81/180LR


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.

- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1941480000	BCZ 3.81/10/180LR SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248698400	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1941670000	BCZ 3.81/10/180LR SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248698592	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1941860000	BCZ 3.81/10/180LR SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248698899	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

BC/SC 3.81 series SC 3.81/10/180F 3.2SN GN BX

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Mating connector (fully pluggable)

BCZ 3.81/90F



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:

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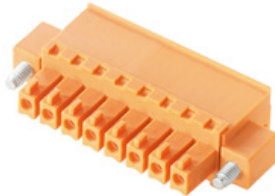
- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1940060000	BCZ 3.81/10/90F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656769	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1798910000	BCZ 3.81/10/90F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248243594	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1798820000	BCZ 3.81/10/90F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248243501	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

BC/SC 3.81 series
SC 3.81/10/180F 3.2SN GN BX

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Mating connector (fully pluggable)
BCZ 3.81/270F


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

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

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- 270° wire perpendicular and below plugging direction

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- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1940540000	BCZ 3.81/10/270F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656295	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1799140000	BCZ 3.81/10/270F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248244034	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1799230000	BCZ 3.81/10/270F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248244126	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

BC/SC 3.81 series SC 3.81/10/180F 3.2SN GN BX

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Mating connector (fully pluggable)

BCZ 3.81/180F



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
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- 270° wire perpendicular and below plugging direction

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

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- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1941090000	BCZ 3.81/10/180F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248655755	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1793100000	BCZ 3.81/10/180F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248227181	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
1793010000	BCZ 3.81/10/180F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248227099	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

