

Pitch 3.81 mm (0.150 inch)
SC-SMT 3.81/06/180G 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG
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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.

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

General ordering data

Order No.	1863020000
Part designation	SC-SMT 3.81/06/180G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.81 mm, No. of poles: 6, 180°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248428151
Qty.	50 pc(s).
Packaging	Box

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Technical data

System parameters

Fitted to PCB	Reflow solder connection	Outgoing elbow	180°
Pitch in mm	3.81 mm	Pitch in inch	0.15 inch
No. of poles	6	Solder pin length	3.2 mm
Can be coded	Yes	No. of rows	1
Number of solder pins per pole	1	Diameter of solder eyelet	1.3 mm
Tolerance of the diameter of the solder eyelet	+ 0,1 mm	L1 in mm	19.05 mm
L1 in inch	0.75 inch	Insulation resistance	10 ³ Ω
Electric shock protection to DIN VDE 0470	IP 20	Electric shock protection to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	LCP GF	Colour	black
Insulating material group	IIIa	Flammability class UL 94	V-0
CTI	≥ 175	Contact material	Copper alloy
Contact surface	tinned	Highest continuous operating temperature, min.	-25 °C
Highest continuous operating temperature, max.	120 °C	Max. relative humidity during storage	85 %

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)	13.9 A
Rated current, no. of poles (Tu=40°C), min.	17 A	Rated current, no. of poles (Tu=40°C), max.	12.4 A
Rated voltage at overvoltage category/pollution degree III/3	160 V	Rated impulse withstand voltage for overvoltage class/pollution severity III/3	2.5 kV
Rated voltage for overvoltage class/pollution severity III/2	160 V	Rated impulse withstand voltage for overvoltage class/pollution severity III/2	2.5 kV
Rated voltage for overvoltage class/pollution severity II/2	320 V	Rated impulse withstand voltage for overvoltage class/pollution severity 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

Approvals

Approvals institutes CSA; CURUS; ROHS

Classifications

ETIM 3.0	EC001284	eClass 5.1	27-26-07-04
eClass 6.0	27-26-07-04		

Datasheet

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Technical data**Notes**

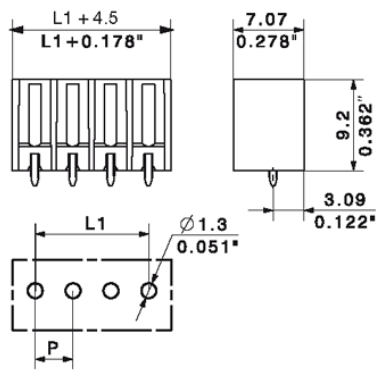
Notes

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

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Drawings

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Counterpart

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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1940770000	BCZ 3.81/06/180 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656066	50 pc(s).	Box
1792900000	BCZ 3.81/06/180 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248226986	50 pc(s).	Box
1792810000	BCZ 3.81/06/180 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248226795	50 pc(s).	Box

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Counterpart

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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1940230000	BCZ 3.81/06/270 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656608	50 pc(s).	Box
1798970000	BCZ 3.81/06/270 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243754	50 pc(s).	Box
1799050000	BCZ 3.81/06/270 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243945	50 pc(s).	Box

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Counterpart

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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1798730000	BCZ 3.81/06/90 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243419	50 pc(s).	Box
1798590000	BCZ 3.81/06/90 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243235	50 pc(s).	Box
1939870000	BCZ 3.81/06/90 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656950	50 pc(s).	Box

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Counterpart

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
- 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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1941050000	BCZ 3.81/06/180F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248655793	50 pc(s).	Box
1792990000	BCZ 3.81/06/180F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248227075	50 pc(s).	Box
1793080000	BCZ 3.81/06/180F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248227167	50 pc(s).	Box

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Counterpart

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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1941440000	BCZ 3.81/06/180LR SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248698363	50 pc(s).	Box
1941630000	BCZ 3.81/06/180LR SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248698554	50 pc(s).	Box
1941820000	BCZ 3.81/06/180LR SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248698745	50 pc(s).	Box

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Counterpart

BCZ 3.81/90F



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

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- 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.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1940020000	BCZ 3.81/06/90F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656806	50 pc(s).	Box
1798890000	BCZ 3.81/06/90F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243570	50 pc(s).	Box
1798810000	BCZ 3.81/06/90F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243495	50 pc(s).	Box

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Counterpart

BCZ 3.81/270F



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- 270° wire perpendicular and below plugging direction

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- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1940500000	BCZ 3.81/06/270F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656332	50 pc(s).	Box
1799130000	BCZ 3.81/06/270F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248244027	50 pc(s).	Box
1799210000	BCZ 3.81/06/270F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 6, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248244102	50 pc(s).	Box