

Pitch 3.81 mm (0.150 inch)
SC-SMT 3.81/03/90G 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG
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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.

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

General ordering data

Order No.	1862480000
Part designation	SC-SMT 3.81/03/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.81 mm, No. of poles: 3, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248427659
Qty.	50 pc(s).
Packaging	Box

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Technical data

System parameters

Fitted to PCB	Reflow solder connection	Outgoing elbow	90°
Pitch in mm	3.81 mm	Pitch in inch	0.15 inch
No. of poles	3	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	7.62 mm
L1 in inch	0.3 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
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Classifications

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

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Technical data

Notes

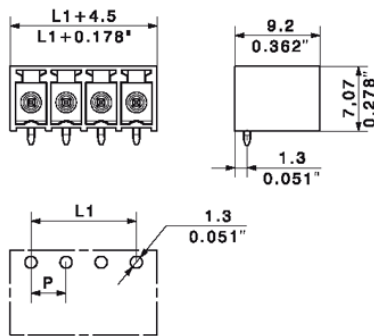
Notes

- 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
1792870000	BCZ 3.81/03/180 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248226955	50 pc(s).	Box
1792780000	BCZ 3.81/03/180 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248226764	50 pc(s).	Box
1940740000	BCZ 3.81/03/180 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248656097	50 pc(s).	Box

Pitch 3.81 mm (0.150 inch) SC-SMT 3.81/03/90G 3.2SN BK BX

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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
1940200000	BCZ 3.81/03/270 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656639	50 pc(s).	Box
1799020000	BCZ 3.81/03/270 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243914	50 pc(s).	Box
1798160000	BCZ 3.81/03/270 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248241354	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:

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- 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
1798120000	BCZ 3.81/03/90 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248241316	50 pc(s).	Box
1939830000	BCZ 3.81/03/90 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248653959	50 pc(s).	Box
1798690000	BCZ 3.81/03/90 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243280	50 pc(s).	Box

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Counterpart

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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 - Flange with screw (F)
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- 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
1798140000	BCZ 3.81/03/90F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248241330	50 pc(s).	Box
1798860000	BCZ 3.81/03/90F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243549	50 pc(s).	Box
1939990000	BCZ 3.81/03/90F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656837	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:

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- 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
1941410000	BCZ 3.81/03/180LR SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248698332	50 pc(s).	Box
1941600000	BCZ 3.81/03/180LR SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248698523	50 pc(s).	Box
1941790000	BCZ 3.81/03/180LR SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248698714	50 pc(s).	Box

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Counterpart

BCZ 3.81/180F



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

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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
1792960000	BCZ 3.81/03/180F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248227044	50 pc(s).	Box
1793050000	BCZ 3.81/03/180F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248227136	50 pc(s).	Box
1941020000	BCZ 3.81/03/180F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm², Box	4032248655823	50 pc(s).	Box

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Counterpart

BCZ 3.81/270F



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

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1799180000	BCZ 3.81/03/270F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248244072	50 pc(s).	Box
1798180000	BCZ 3.81/03/270F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248241378	50 pc(s).	Box
1940470000	BCZ 3.81/03/270F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656363	50 pc(s).	Box