



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

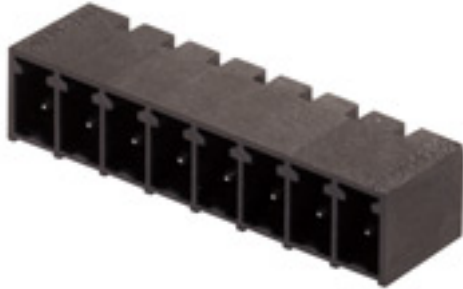
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com



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.	<a href="#">1862490000</a>
Part designation	SC-SMT 3.81/04/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.81 mm, No. of poles: 4, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248427628
Qty.	50 pc(s).
Packaging	Box

**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com

**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	4	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	11.43 mm
L1 in inch	0.45 inch	Insulation resistance	10 <sup>3</sup> 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**

**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-2083  
[www.weidmueller.com](http://www.weidmueller.com)

**Technical data****Notes**

Notes

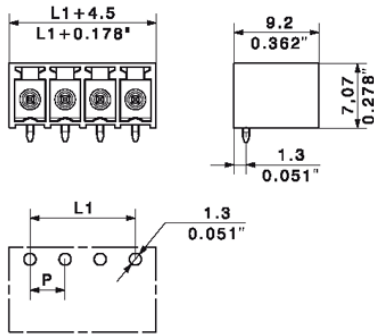
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

**Datasheet**

**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-2083  
[www.weidmueller.com](http://www.weidmueller.com)

**Drawings**



**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com

## 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 mm<sup>2</sup> (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
<a href="#">1940750000</a>	BCZ 3.81/04/180 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248656080	50 pc(s).	Box
<a href="#">1792880000</a>	BCZ 3.81/04/180 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248226962	50 pc(s).	Box
<a href="#">1792790000</a>	BCZ 3.81/04/180 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248226771	50 pc(s).	Box

**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com

## 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 mm<sup>2</sup> (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
<a href="#">1798950000</a>	BCZ 3.81/04/270 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248243730	50 pc(s).	Box
<a href="#">1940210000</a>	BCZ 3.81/04/270 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248656622	50 pc(s).	Box
<a href="#">1799030000</a>	BCZ 3.81/04/270 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248243921	50 pc(s).	Box

**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com

## 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 mm<sup>2</sup> (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
<a href="#">1939840000</a>	BCZ 3.81/04/90 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248653942	50 pc(s).	Box
<a href="#">1798710000</a>	BCZ 3.81/04/90 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248243297	50 pc(s).	Box
<a href="#">1798550000</a>	BCZ 3.81/04/90 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248243211	50 pc(s).	Box



**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com

## 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 mm<sup>2</sup> (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
<a href="#">1793060000</a>	BCZ 3.81/04/180F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248227143	50 pc(s).	Box
<a href="#">1941030000</a>	BCZ 3.81/04/180F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248655816	50 pc(s).	Box
<a href="#">1792970000</a>	BCZ 3.81/04/180F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248227051	50 pc(s).	Box

**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com

## Counterpart

### 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:

- 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 mm<sup>2</sup> (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
<a href="#">1799190000</a>	BCZ 3.81/04/270F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248244089	50 pc(s).	Box
<a href="#">1799110000</a>	BCZ 3.81/04/270F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248244003	50 pc(s).	Box
<a href="#">1940480000</a>	BCZ 3.81/04/270F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248656356	50 pc(s).	Box

**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com

## 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:

- 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 mm<sup>2</sup> (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
<a href="#">1798790000</a>	BCZ 3.81/04/90F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248243471	50 pc(s).	Box
<a href="#">1798870000</a>	BCZ 3.81/04/90F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248243556	50 pc(s).	Box
<a href="#">1940000000</a>	BCZ 3.81/04/90F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248656820	50 pc(s).	Box

**Pitch 3.81 mm (0.150 inch)**  
**SC-SMT 3.81/04/90G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com

## 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 mm<sup>2</sup> (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
<a href="#">1941420000</a>	BCZ 3.81/04/180LR SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248698349	50 pc(s).	Box
<a href="#">1941800000</a>	BCZ 3.81/04/180LR SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248698721	50 pc(s).	Box
<a href="#">1941610000</a>	BCZ 3.81/04/180LR SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Box	4032248698530	50 pc(s).	Box