Pitch 3.81 mm (0.150 inch)
SC-SMT 3.81/10/90G 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.	1862550000
Part designation	SC-SMT 3.81/10/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.81 mm, No. of poles: 10, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248427697
Qty.	50 pc(s).
Packaging	Box

Creation date October 1, 2010 9:34:45 PM CEST

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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	10	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	34.29 mm
L1 in inch	1.35 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 continous operating temperature, min.	-25 °C
Highest continous 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		

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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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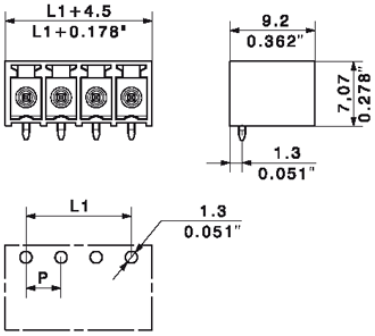
Drawings



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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
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, max.: 1.5 mm², Box	4032248226917	50 pc(s).	Box
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, max.: 1.5 mm², Box	4032248227006	50 pc(s).	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, max.: 1.5 mm², Box	4032248656028	50 pc(s).	Box

Pitch 3.81 mm (0.150 inch)
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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
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, max.: 1.5 mm², Box	4032248243761	50 pc(s).	Box
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, max.: 1.5 mm², Box	4032248243969	50 pc(s).	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, max.: 1.5 mm², Box	4032248656561	50 pc(s).	Box

Pitch 3.81 mm (0.150 inch)
SC-SMT 3.81/10/90G 3.2SN BK BX

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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
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, max.: 1.5 mm², Box	4032248656912	50 pc(s).	Box
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, max.: 1.5 mm², Box	4032248243242	50 pc(s).	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, max.: 1.5 mm², Box	4032248243433	50 pc(s).	Box

Pitch 3.81 mm (0.150 inch)
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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 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
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, max.: 1.5 mm², Box	4032248244034	50 pc(s).	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, max.: 1.5 mm², Box	4032248244126	50 pc(s).	Box
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, max.: 1.5 mm², Box	4032248656295	50 pc(s).	Box

Pitch 3.81 mm (0.150 inch)
SC-SMT 3.81/10/90G 3.2SN BK BX

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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
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, max.: 1.5 mm², Box	4032248698899	50 pc(s).	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, max.: 1.5 mm², Box	4032248698592	50 pc(s).	Box
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, max.: 1.5 mm², Box	4032248698400	50 pc(s).	Box

Datasheet

Pitch 3.81 mm (0.150 inch)
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Counterpart

BCZ 3.81/90F

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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
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, max.: 1.5 mm², Box	4032248656769	50 pc(s).	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, max.: 1.5 mm², Box	4032248243501	50 pc(s).	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, max.: 1.5 mm², Box	4032248243594	50 pc(s).	Box

Pitch 3.81 mm (0.150 inch)
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Counterpart

BCZ 3.81/180F

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• 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
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, max.: 1.5 mm², Box	4032248655755	50 pc(s).	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, max.: 1.5 mm², Box	4032248227181	50 pc(s).	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, max.: 1.5 mm², Box	4032248227099	50 pc(s).	Box