



#### General ordering data

Order No.	1793030000
Part designation	BCZ 3.81/16/180F SN SW
Version	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 16, 180°, Box
EAN	4032248227112
Qty.	50 pc(s).

#### System parameters

Conductor connection system	Clamping yoke connection
Outgoing direction of conductor	180°
Pitch	3.81 mm
Pitch in inch	0.15 inch
No. of poles	16
No. of rows	1
Screwdriver blade	0.4 x 2.5
Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.2
Tightening torque, max.	0.25 Nm
Clamping screw	M 2
Stripping length	7 mm
L1 in mm	57.12 mm
L1 in inch	2.25 inch
Electric shock protection to DIN VDE 0470	IP 20
Electric shock protection to DIN VDE 0470	Safe from finger touch

#### Material data

Insulating material	PA GF
Colour	black
colour chart	Similar to RAL 9011
Insulating material group	II
Flammability class UL 94	V-0
CTI	>= 475

#### Material data

Contact base material	Copper alloy
Contact surface	tinned

#### Connectable conductors

Clamping range, min.	0.08 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>
AWG, min.	28
AWG, max.	16
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>
Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, min.	0.2 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, max.	1.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm <sup>2</sup>
Gauge to EN 60999 a x b; ø	2.4 mm x 1.5 mm ; 2.4 mm

#### DIN IEC rating data

Rated current, min. No. pins (Tu=20°C)	17.5 A
Rated current, min. No. pins (Tu=40°C)	17.5 A
Rated voltage for overvoltage class/pollution severity II/2	320 V
Rated voltage for overvoltage class/pollution severity III/2	160 V
Rated voltage for overvoltage class/pollution severity III/3	160 V
Rated impulse withstand voltage for overvoltage class/pollution severity II/2	2.5 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/2	2.5 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/3	2.5 kV
Short-time withstand current resistance	3 x 1s with 76 A

#### CSA rating data

Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor (field wiring), min.	28
AWG conductor (field wiring), max.	16

#### UL 1059 rating data

Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor, min.	28
AWG conductor, max.	16

## Approvals

Approvals institutes



## Classifications

ETIM 2.0	NK
ETIM 3.0	EC001284
eClass 4.1	27-26-07-01
eClass 5.0	27-26-07-01
eClass 5.1	27-26-07-04

## Similar products

Order No.	Part designation	Version
1941010000	BCZ 3.81/2/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 180°, Box
1792950000	BCZ 3.81/2/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 180°, Box
1793040000	BCZ 3.81/2/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 180°, Box
1941020000	BCZ 3.81/3/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 180°, Box
1792960000	BCZ 3.81/3/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 180°, Box
1793050000	BCZ 3.81/3/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 180°, Box
1941030000	BCZ 3.81/4/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 180°, Box
1792970000	BCZ 3.81/4/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 180°, Box
1793060000	BCZ 3.81/4/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 180°, Box
1941040000	BCZ 3.81/5/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 180°, Box
1792980000	BCZ 3.81/5/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 180°, Box

1793070000	BCZ 3.81/5/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 180°, Box
1941050000	BCZ 3.81/6/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 180°, Box
1792990000	BCZ 3.81/6/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 180°, Box
1793080000	BCZ 3.81/6/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 180°, Box
1941060000	BCZ 3.81/7/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 180°, Box
1837020000	BCZ 3.81/7/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 180°, Box
1941260000	BCZ 3.81/7/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 180°, Box
1941070000	BCZ 3.81/8/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 180°, Box
1793000000	BCZ 3.81/8/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 180°, Box
1793090000	BCZ 3.81/8/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 180°, Box
1941080000	BCZ 3.81/9/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 180°, Box
1899530000	BCZ 3.81/9/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 180°, Box
1941270000	BCZ 3.81/9/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 180°, Box
1941090000	BCZ 3.81/10/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 180°, Box
1793010000	BCZ 3.81/10/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 180°, Box
1793100000	BCZ 3.81/10/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 180°, Box
1941100000	BCZ 3.81/11/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 180°, Box

1899550000	BCZ 3.81/11/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 180°, Box
1941280000	BCZ 3.81/11/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 180°, Box
1941110000	BCZ 3.81/12/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 12, 180°, Box
1793020000	BCZ 3.81/12/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 12, 180°, Box
1793110000	BCZ 3.81/12/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 12, 180°, Box
1941120000	BCZ 3.81/13/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 13, 180°, Box
1899570000	BCZ 3.81/13/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 13, 180°, Box
1941290000	BCZ 3.81/13/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 13, 180°, Box
1941130000	BCZ 3.81/14/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 14, 180°, Box
1899590000	BCZ 3.81/14/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 14, 180°, Box
1941300000	BCZ 3.81/14/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 14, 180°, Box
1941140000	BCZ 3.81/15/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 15, 180°, Box
1899610000	BCZ 3.81/15/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 15, 180°, Box
1941310000	BCZ 3.81/15/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 15, 180°, Box
1941150000	BCZ 3.81/16/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 16, 180°, Box
1793120000	BCZ 3.81/16/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 16, 180°, Box
1941160000	BCZ 3.81/17/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 17, 180°, Box

1941360000	BCZ 3.81/17/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 17, 180°, Box
1941320000	BCZ 3.81/17/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 17, 180°, Box
1941170000	BCZ 3.81/18/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 18, 180°, Box
1941370000	BCZ 3.81/18/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 18, 180°, Box
1941330000	BCZ 3.81/18/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 18, 180°, Box
1941180000	BCZ 3.81/19/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 19, 180°, Box
1941380000	BCZ 3.81/19/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 19, 180°, Box
1941340000	BCZ 3.81/19/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 19, 180°, Box
1941190000	BCZ 3.81/20/180F SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 20, 180°, Box
1941390000	BCZ 3.81/20/180F SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 20, 180°, Box
1941350000	BCZ 3.81/20/180F SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 20, 180°, Box