



General ordering data	
Order No.	1798680000
Part designation	BCZ 3.81/2/90 SN GN
Version	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 2, 90°, Box
EAN	4032248243273
Qty.	50 pc(s).

System parameters	
Conductor connection system	Clamping yoke connection
Outgoing direction of conductor	90°
Pitch	3.81 mm
Pitch in inch	0.15 inch
No. of poles	2
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	3.81 mm
L1 in inch	0.15 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	Pale green
colour chart	Similar to RAL 6021
Insulating material group	II
Flammability class UL 94	V-0
CTI	>= 475
Contact base material	Copper alloy

Material data	
Contact surface	tinned
Connectable conductors	
Clamping range, min.	0.08 mm²
Clamping range, max.	1.5 mm²
AWG, min.	28
AWG, max.	16
Solid, min. H05(07) V-U	0.2 mm²
Solid, max. H05(07) V-U	1.5 mm²
Flexible, min. H05(07) V-K	0.2 mm²
Flexible, max. H05(07) V-K	1.5 mm²
With wire end ferrule, acc. to DIN 46 228/1, min.	0.2 mm²
With wire end ferrule, acc. to DIN 46 228/1, max.	1.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm²
w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm²
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, max. No. pins (Tu=20°C)	15.9 A
Rated current, min. No. pins(Tu=40°C)	17.5 A
Rated current, max. No. pins (Tu=40°C)	14.1 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
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
1939820000	BCZ 3.81/2/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 2, 90°, Box
1798500000	BCZ 3.81/2/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 2, 90°, Box
1939830000	BCZ 3.81/3/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 3, 90°, Box
1798120000	BCZ 3.81/3/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 3, 90°, Box
1798690000	BCZ 3.81/3/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 3, 90°, Box
1939840000	BCZ 3.81/4/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 4, 90°, Box
1798550000	BCZ 3.81/4/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 4, 90°, Box
1798710000	BCZ 3.81/4/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 4, 90°, Box
1939860000	BCZ 3.81/5/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 5, 90°, Box
1798570000	BCZ 3.81/5/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 5, 90°, Box
1798720000	BCZ 3.81/5/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 5, 90°, Box

1939870000	BCZ 3.81/6/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 6, 90°, Box
1798590000	BCZ 3.81/6/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 6, 90°, Box
1798730000	BCZ 3.81/6/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 6, 90°, Box
1939880000	BCZ 3.81/7/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 7, 90°, Box
1858960000	BCZ 3.81/7/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 7, 90°, Box
1871440000	BCZ 3.81/07/90 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 7, 90°, Box
1939890000	BCZ 3.81/8/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 8, 90°, Box
1798130000	BCZ 3.81/8/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 8, 90°, Box
1798740000	BCZ 3.81/8/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 8, 90°, Box
1939900000	BCZ 3.81/9/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 9, 90°, Box
1871430000	BCZ 3.81/9/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 9, 90°, Box
1871420000	BCZ 3.81/9/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 9, 90°, Box
1939910000	BCZ 3.81/10/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 10, 90°, Box
1798610000	BCZ 3.81/10/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 10, 90°, Box
1798750000	BCZ 3.81/10/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 10, 90°, Box
1939920000	BCZ 3.81/11/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 11, 90°, Box
1899380000	BCZ 3.81/11/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 11, 90°, Box

1899370000	BCZ 3.81/11/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 11, 90°, Box
1939930000	BCZ 3.81/12/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 12, 90°, Box
1798630000	BCZ 3.81/12/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 12, 90°, Box
1798760000	BCZ 3.81/12/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 12, 90°, Box
1939940000	BCZ 3.81/13/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 13, 90°, Box
1899420000	BCZ 3.81/13/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 13, 90°, Box
1899410000	BCZ 3.81/13/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 13, 90°, Box
1939950000	BCZ 3.81/14/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 14, 90°, Box
1899460000	BCZ 3.81/14/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 14, 90°, Box
1899450000	BCZ 3.81/14/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 14, 90°, Box
1939960000	BCZ 3.81/15/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 15, 90°, Box
1899500000	BCZ 3.81/15/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 15, 90°, Box
1899490000	BCZ 3.81/15/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 15, 90°, Box
1939970000	BCZ 3.81/16/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 16, 90°, Box
1798660000	BCZ 3.81/16/90 SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 16, 90°, Box
1798770000	BCZ 3.81/16/90 SN GN	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 16, 90°, Box