



#### General ordering data

Order No.	1638220000
Part designation	BLZ 5.00/20/270B SN OR
Version	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 20, 270°, Box
EAN	4008190275488
Qty.	18 pc(s).

#### System parameters

Conductor connection system	Clamping yoke connection
Outgoing direction of conductor	270°
Pitch	5 mm
Pitch in inch	0.197 inch
No. of poles	20
No. of rows	1
Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm
Clamping screw	M 2.5
Stripping length	7 mm
L1 in mm	95 mm
L1 in inch	3.74 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	PBT
Colour	orange
colour chart	Similar to RAL 2000
Insulating material group	IIIa
Flammability class UL 94	V-0
CTI	>= 200

#### Material data

Contact base material	Copper alloy
Contact surface	tinned

#### Connectable conductors

Clamping range, min.	0.13 mm <sup>2</sup>
Clamping range, max.	3.31 mm <sup>2</sup>
AWG, min.	26
AWG, max.	12
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	2.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	2.5 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, min.	0.5 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, max.	2.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm <sup>2</sup>
Gauge to EN 60999 a x b; ø	2.8 mm x 2.0 mm; 2.4 mm

#### DIN IEC rating data

Rated current, min. No. pins (Tu=20°C)	15 A
Rated current, max. No. pins (Tu=20°C)	12 A
Rated current, min. No. pins (Tu=40°C)	12 A
Rated current, max. No. pins (Tu=40°C)	10 A
Rated voltage for overvoltage class/pollution severity II/2	400 V
Rated voltage for overvoltage class/pollution severity III/2	320 V
Rated voltage for overvoltage class/pollution severity III/3	250 V
Rated impulse withstand voltage for overvoltage class/pollution severity II/2	4 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/2	4 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/3	4 kV
Short-time withstand current resistance	3 x 1s with 120 A

#### CSA rating data

Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor (field wiring), min.	26
AWG conductor (field wiring), max.	12

#### UL 1059 rating data

Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor, min.	26
AWG conductor, max.	12

## 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
1638040000	BLZ 5.00/2/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 270°, Box
1638270000	BLZ 5.00/2/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 270°, Box
1638050000	BLZ 5.00/3/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 270°, Box
1638060000	BLZ 5.00/4/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 4, 270°, Box
1638290000	BLZ 5.00/4/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 4, 270°, Box
1638070000	BLZ 5.00/5/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 5, 270°, Box
1638300000	BLZ 5.00/5/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 5, 270°, Box
1638080000	BLZ 5.00/6/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 6, 270°, Box
1638310000	BLZ 5.00/6/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 6, 270°, Box
1638090000	BLZ 5.00/7/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 7, 270°, Box
1638320000	BLZ 5.00/7/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 7, 270°, Box

1638100000	BLZ 5.00/8/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 8, 270°, Box
1638330000	BLZ 5.00/8/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 8, 270°, Box
1638110000	BLZ 5.00/9/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 9, 270°, Box
1638340000	BLZ 5.00/9/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 9, 270°, Box
1638120000	BLZ 5.00/10/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 10, 270°, Box
1638350000	BLZ 5.00/10/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 10, 270°, Box
1638130000	BLZ 5.00/11/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 11, 270°, Box
1638360000	BLZ 5.00/11/270B SN SW	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 11, 270°, Box
1638140000	BLZ 5.00/12/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 12, 270°, Box
1638150000	BLZ 5.00/13/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 13, 270°, Box
1638160000	BLZ 5.00/14/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 14, 270°, Box
1638170000	BLZ 5.00/15/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 15, 270°, Box
1638180000	BLZ 5.00/16/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 16, 270°, Box
1638190000	BLZ 5.00/17/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 17, 270°, Box
1638200000	BLZ 5.00/18/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 18, 270°, Box
1638210000	BLZ 5.00/19/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 19, 270°, Box
1638230000	BLZ 5.00/21/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 21, 270°, Box

1638240000	BLZ 5.00/22/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 22, 270°, Box
1638250000	BLZ 5.00/23/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 23, 270°, Box
1638260000	BLZ 5.00/24/270B SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 24, 270°, Box