



**General ordering data**

Order No.	1701870000
Part designation	BLZ 7.50/10/90 SN OR
Version	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 10, 90°, Box
EAN	4008190908454
Qty.	50 pc(s).

**System parameters**

Conductor connection system	Clamping yoke connection
Outgoing direction of conductor	90°
Pitch	7.5 mm
Pitch in inch	0.295 inch
No. of poles	10
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	67.5 mm
L1 in inch	2.657 inch
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
Contact base material	Copper alloy

#### Material data

Contact surface	tinned
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#### 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	0.2 mm <sup>2</sup>
Solid, max. H05(07) V-U	2.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 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.	0.2 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.	0.2 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)	13 A
Rated current, min. No. pins (Tu=40°C)	12.5 A
Rated current, max. No. pins (Tu=40°C)	11 A
Rated voltage for overvoltage class/pollution severity II/2	800 V
Rated voltage for overvoltage class/pollution severity III/2	800 V
Rated voltage for overvoltage class/pollution severity III/3	500 V
Rated impulse withstand voltage for overvoltage class/pollution severity II/2	8 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/2	8 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/3	6 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
1701790000	BLZ 7.50/2/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 2, 90°, Box
1701800000	BLZ 7.50/3/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 3, 90°, Box
1701810000	BLZ 7.50/4/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 4, 90°, Box
1701820000	BLZ 7.50/5/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 5, 90°, Box
1701830000	BLZ 7.50/6/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 6, 90°, Box
1701840000	BLZ 7.50/7/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 7, 90°, Box
1701850000	BLZ 7.50/8/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 8, 90°, Box
1701860000	BLZ 7.50/9/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 9, 90°, Box
1701880000	BLZ 7.50/11/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 11, 90°, Box
1701890000	BLZ 7.50/12/90 SN OR	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 12, 90°, Box