



**General ordering data**

Order No.	1690430000
Part designation	BLZF 3.5/3 SN SW
Version	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 180°, Box
EAN	4008190328948
Qty.	100 pc(s).

**System parameters**

Conductor connection system	Tension clamp connection
Outgoing direction of conductor	180°
Pitch	3.5 mm
Pitch in inch	0.138 inch
No. of poles	3
No. of rows	1
Screwdriver blade	0.4 x 2.5
Screwdriver blade standard	DIN 5264-A
Stripping length	10 mm
L1 in mm	7 mm
L1 in inch	0.276 inch
Electric shock protection to DIN VDE 0470	IP 20
Electric shock protection to DIN VDE 0470	Safe from finger touch

## System parameters

### Material data

Insulating material	PBT
Colour	black
colour chart	Similar to RAL 9011
Insulating material group	IIIa
Flammability class UL 94	V-0
CTI	>= 200
Contact base material	Copper alloy
Contact surface	tinned

### Connectable conductors

Clamping range, min.	0.13 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>
AWG, min.	28
AWG, max.	16
Outer diameter of insulation, max.	2.9 mm
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 mm <sup>2</sup>
Gauge to EN 60999 a x b; ø	2.4 mm x 1.5 mm;

### DIN IEC rating data

Rated current, min. No. pins (Tu=20°C)	14.5 A
Rated current, max. No. pins (Tu=20°C)	10 A
Rated current, min. No. pins (Tu=40°C)	12 A
Rated current, max. No. pins (Tu=40°C)	8 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 100 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.	14

#### CSA rating data

#### 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.	14

#### 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
1690190000	BLZF 3.5/2 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 180°, Box
1690420000	BLZF 3.5/2 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 180°, Box
1690200000	BLZF 3.5/3 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 180°, Box
1690210000	BLZF 3.5/4 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Box
1690440000	BLZF 3.5/4 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Box
1690220000	BLZF 3.5/5 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 180°, Box
1690450000	BLZF 3.5/5 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 180°, Box
1690230000	BLZF 3.5/6 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Box

1690460000	BLZF 3.5/6 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Box
1690240000	BLZF 3.5/7 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 180°, Box
1690470000	BLZF 3.5/7 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 180°, Box
1690250000	BLZF 3.5/8 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Box
1690480000	BLZF 3.5/8 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Box
1690260000	BLZF 3.5/9 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 180°, Box
1690490000	BLZF 3.5/9 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 180°, Box
1690270000	BLZF 3.5/10 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Box
1690500000	BLZF 3.5/10 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Box
1690280000	BLZF 3.5/11 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 180°, Box
1690510000	BLZF 3.5/11 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 180°, Box
1690290000	BLZF 3.5/12 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Box
1690520000	BLZF 3.5/12 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Box
1690300000	BLZF 3.5/13 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 13, 180°, Box
1690530000	BLZF 3.5/13 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 13, 180°, Box
1690310000	BLZF 3.5/14 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 180°, Box
1690540000	BLZF 3.5/14 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 180°, Box

1690320000	BLZF 3.5/15 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 15, 180°, Box
1690550000	BLZF 3.5/15 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 15, 180°, Box
1690330000	BLZF 3.5/16 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 180°, Box
1690560000	BLZF 3.5/16 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 180°, Box
1690340000	BLZF 3.5/17 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 17, 180°, Box
1690570000	BLZF 3.5/17 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 17, 180°, Box
1690350000	BLZF 3.5/18 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 180°, Box
1690580000	BLZF 3.5/18 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 180°, Box
1690360000	BLZF 3.5/19 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 19, 180°, Box
1690590000	BLZF 3.5/19 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 19, 180°, Box
1690370000	BLZF 3.5/20 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 180°, Box
1690600000	BLZF 3.5/20 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 180°, Box
1690380000	BLZF 3.5/21 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 21, 180°, Box
1690610000	BLZF 3.5/21 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 21, 180°, Box
1690390000	BLZF 3.5/22 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 180°, Box
1690620000	BLZF 3.5/22 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 180°, Box
1690400000	BLZF 3.5/23 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 23, 180°, Box

1690630000	BLZF 3.5/23 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 23, 180°, Box
1690410000	BLZF 3.5/24 SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 180°, Box
1690640000	BLZF 3.5/24 SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 180°, Box