



#### General ordering data

Order No.	1690980000
Part designation	BLZF 3.5/12/F SN OR
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: 12, 180°, Box
EAN	4008190329495
Qty.	50 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	12
No. of rows	1
Screwdriver blade	0.4 x 2.5
Screwdriver blade standard	DIN 5264-A
Stripping length	10 mm
L1 in mm	38.5 mm
L1 in inch	1.516 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	orange
colour chart	Similar to RAL 2000
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
1690880000	BLZF 3.5/2/F 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
1691110000	BLZF 3.5/2/F 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
1690890000	BLZF 3.5/3/F 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
1691120000	BLZF 3.5/3/F 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: 3, 180°, Box
1690900000	BLZF 3.5/4/F 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

1691130000	BLZF 3.5/4/F 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
1690910000	BLZF 3.5/5/F 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
1691140000	BLZF 3.5/5/F 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
1690920000	BLZF 3.5/6/F 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
1691150000	BLZF 3.5/6/F 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
1690930000	BLZF 3.5/7/F 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
1691160000	BLZF 3.5/7/F 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
1690940000	BLZF 3.5/8/F 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
1691170000	BLZF 3.5/8/F 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
1690950000	BLZF 3.5/9/F 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
1691180000	BLZF 3.5/9/F 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
1690960000	BLZF 3.5/10/F 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
1691190000	BLZF 3.5/10/F 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
1690970000	BLZF 3.5/11/F 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
1691200000	BLZF 3.5/11/F 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
1691210000	BLZF 3.5/12/F 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
1690990000	BLZF 3.5/13/F 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

1691220000	BLZF 3.5/13/F 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
1691000000	BLZF 3.5/14/F 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
1691230000	BLZF 3.5/14/F 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
1691010000	BLZF 3.5/15/F 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
1691240000	BLZF 3.5/15/F 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
1691020000	BLZF 3.5/16/F 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
1691250000	BLZF 3.5/16/F 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
1691030000	BLZF 3.5/17/F 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
1691260000	BLZF 3.5/17/F 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
1691040000	BLZF 3.5/18/F 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
1691270000	BLZF 3.5/18/F 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
1691050000	BLZF 3.5/19/F 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
1691280000	BLZF 3.5/19/F 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
1691060000	BLZF 3.5/20/F 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
1691290000	BLZF 3.5/20/F 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
1691070000	BLZF 3.5/21/F 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
1691300000	BLZF 3.5/21/F 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

1691080000	BLZF 3.5/22/F 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
1691310000	BLZF 3.5/22/F 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
1691090000	BLZF 3.5/23/F 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
1691320000	BLZF 3.5/23/F 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
1691100000	BLZF 3.5/24/F 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
1691330000	BLZF 3.5/24/F 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