



#### General ordering data

Order No.	1748120000
Part designation	B2L 3.5/28 F SN OR
Version	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 28, 180°, Box
EAN	4032248198474
Qty.	20 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	28
No. of rows	2
Stripping length	7 mm
L1 in mm	45.5 mm
L1 in inch	1.791 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
Contact base material	Copper alloy
Contact surface	tinned

#### Connectable conductors

Clamping range, min.	0.08 mm <sup>2</sup>
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#### Connectable conductors

Clamping range, max.	1 mm <sup>2</sup>
AWG, min.	28
AWG, max.	18
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>
Solid, max. H05(07) V-U	1 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>
Flexible, max. H05(07) V-K	1 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, min.	0.13 mm <sup>2</sup>
With wire end ferrule, acc. to DIN 46 228/1, max.	0.34 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.13 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, max.	0.34 mm <sup>2</sup>

#### DIN IEC rating data

Rated voltage for overvoltage class/pollution severity II/2	250 V
Rated voltage for overvoltage class/pollution severity III/2	125 V
Rated voltage for overvoltage class/pollution severity III/3	80 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 77 A

#### CSA rating data

Rated voltage (Use group D)	50 V
Rated current (Use group D)	5 A
AWG conductor (field wiring), min.	28
AWG conductor (field wiring), max.	18

#### UL 1059 rating data

Rated voltage (Use group D)	150 V
Rated current (Use group D)	10 A
AWG conductor, min.	22
AWG conductor, max.	16

#### 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

### Classifications

eClass 5.1

27-26-07-01

### Similar products

Order No.	Part designation	Version
1001260000	B2L3.5/04F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Box
1001270000	B2L3.5/04F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Box
1748010000	B2L 3.5/6 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Box
1748170000	B2L 3.5/6 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Box
1748020000	B2L 3.5/8 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Box
1748180000	B2L 3.5/8 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Box
1748030000	B2L 3.5/10 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Box
1748190000	B2L 3.5/10 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Box
1748040000	B2L 3.5/12 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Box
1748200000	B2L 3.5/12 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Box
1748050000	B2L 3.5/14 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 180°, Box
1748210000	B2L 3.5/14 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 180°, Box
1748220000	B2L 3.5/16 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 180°, Box
1748060000	B2L 3.5/16 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 180°, Box

1748070000	B2L 3.5/18 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 180°, Box
1748230000	B2L 3.5/18 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 180°, Box
1748080000	B2L 3.5/20 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 180°, Box
1748240000	B2L 3.5/20 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 180°, Box
1748090000	B2L 3.5/22 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 180°, Box
1748250000	B2L 3.5/22 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 180°, Box
1748100000	B2L 3.5/24 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 180°, Box
1748260000	B2L 3.5/24 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 180°, Box
1748110000	B2L 3.5/26 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 26, 180°, Box
1748270000	B2L 3.5/26 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 26, 180°, Box
1748280000	B2L 3.5/28 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 28, 180°, Box
1748130000	B2L 3.5/30 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 30, 180°, Box
1748290000	B2L 3.5/30 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 30, 180°, Box
1748140000	B2L 3.5/32 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 32, 180°, Box
1748300000	B2L 3.5/32 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 32, 180°, Box
1748150000	B2L 3.5/34 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 34, 180°, Box
1748310000	B2L 3.5/34 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 34, 180°, Box

1748160000	B2L 3.5/36 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 36, 180°, Box
1748320000	B2L 3.5/36 F SN SW	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 36, 180°, Box