



#### General ordering data

Order No.	1748400000
Part designation	B2L 3.5/20 LH 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: 20, 180°, Box
EAN	4032248038176
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	20
No. of rows	2
Stripping length	7 mm
L1 in mm	31.5 mm
L1 in inch	1.24 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>
----------------------	----------------------

#### 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
1001280000	B2L 3.5/4LH 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
1001290000	B2L 3.5/4LH 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
1748330000	B2L 3.5/6 LH 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
1748490000	B2L 3.5/6 LH 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
1748340000	B2L 3.5/8 LH 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
1748500000	B2L 3.5/8 LH 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
1748350000	B2L 3.5/10 LH 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
1748510000	B2L 3.5/10 LH 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
1748360000	B2L 3.5/12 LH 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
1748520000	B2L 3.5/12 LH 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
1748370000	B2L 3.5/14 LH 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
1748530000	B2L 3.5/14 LH 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
1748380000	B2L 3.5/16 LH 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
1748540000	B2L 3.5/16 LH 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

1748390000	B2L 3.5/18 LH 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
1748550000	B2L 3.5/18 LH 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
1748560000	B2L 3.5/20 LH 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
1748410000	B2L 3.5/22 LH 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
1748570000	B2L 3.5/22 LH 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
1748420000	B2L 3.5/24 LH 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
1748580000	B2L 3.5/24 LH 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
1748430000	B2L 3.5/26 LH 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
1748590000	B2L 3.5/26 LH 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
1748440000	B2L 3.5/28 LH 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: 28, 180°, Box
1748600000	B2L 3.5/28 LH 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
1748450000	B2L 3.5/30 LH 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
1748610000	B2L 3.5/30 LH 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
1748460000	B2L 3.5/32 LH 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
1748620000	B2L 3.5/32 LH 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
1748470000	B2L 3.5/34 LH 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
1748630000	B2L 3.5/34 LH 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

1748480000	B2L 3.5/36 LH 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
1748640000	B2L 3.5/36 LH 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