



General ordering data	
Order No.	1748280000
Part designation	B2L 3.5/28 F SN SW
Version	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm², Pitch: 3.50 mm, No. of poles: 28, 180°, Box
EAN	4032248156535
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	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.	0.08 mm²

Connectable conductors	
Clamping range, max.	1 mm²
AWG, min.	28
AWG, max.	18
Solid, min. H05(07) V-U	0.2 mm²
Solid, max. H05(07) V-U	1 mm²
Flexible, min. H05(07) V-K	0.2 mm²
Flexible, max. H05(07) V-K	1 mm²
With wire end ferrule, acc. to DIN 46 228/1, min.	0.13 mm²
With wire end ferrule, acc. to DIN 46 228/1, max.	0.34 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.13 mm²
w. plastic collar ferrule, DIN 46228 pt 4, max.	0.34 mm²

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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², Pitch: 3.50 mm, No. of poles: 26, 180°, Box
1748120000	B2L 3.5/28 F SN OR	PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², 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 mm², Pitch: 3.50 mm, No. of poles: 36, 180°, Box