



#### General ordering data

|                  |   |
|------------------|---|
| Order No.        | 1748040000  |
| Part designation | B2L 3.5/12 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: 12, 180°, Box |
| EAN              | 4032248037957   |
| 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                               | 2                        |
| Stripping length                          | 7 mm                     |
| L1 in mm                                  | 17.5 mm                  |
| L1 in inch                                | 0.689 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   |
|------------|--------------------|---|
| 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 |
| 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 |
| 1748120000 | B2L 3.5/28 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: 28, 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 |