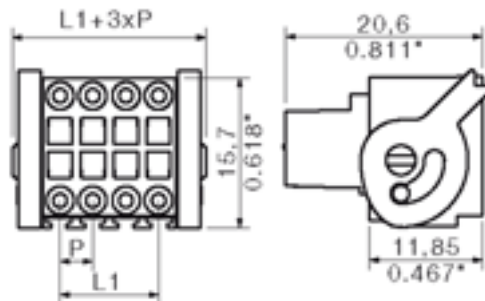




#### General ordering data

|                  |                                                                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.        | 1748600000                                                                                                                                                         |
| Part designation | B2L 3.5/28 LH SN SW                                                                                                                                                |
| Version          | PCB plug-in connector, Female connectors,<br>Tension clamp connection, Clamping range, max.:<br>1 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 28, 180°,<br>Box |
| EAN              | 4032248198511                                                                                                                                                      |
| 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                       | $\geq 200$          |
| Contact base material     | Copper alloy        |
| Contact surface           | tinned              |

#### Connectable conductors

|                                                   |                      |
|---------------------------------------------------|----------------------|
| Clamping range, min.                              | 0.08 mm <sup>2</sup> |
| 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 |
| eClass 5.1 | 27-26-07-01 |

## Similar products

| Order No.  | Part designation    | Version                                                                                                                                                   |
|------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1001280000 | B2L3.5/04LH 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 | B2L3.5/04LH 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 |
| 1748400000 | B2L 3.5/20 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: 20, 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 |
| 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 |