



General ordering data

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| Order No. | 1748560000 |
| Part designation | B2L 3.5/20 LH SN SW |
| Version | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm ² , Pitch: 3.50 mm, No. of poles: 20, 180°, Box |
| EAN | 4032248038275 |
| Qty. | 20 pc(s). |

System parameters

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| 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

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| 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

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| Clamping range, min. | 0.08 mm ² |
| Clamping range, max. | 1 mm ² |
| AWG, min. | 28 |
| AWG, max. | 18 |
| Solid, min. H05(07) V-U | 0.2 mm ² |
| Solid, max. H05(07) V-U | 1 mm ² |
| Flexible, min. H05(07) V-K | 0.2 mm ² |
| Flexible, max. H05(07) V-K | 1 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 0.13 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 0.34 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.13 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 0.34 mm ² |

DIN IEC rating data

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| 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

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| 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

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| 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

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|------------|-------------|
| 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 | B2L 3.5/4LH SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , Pitch: 3.50 mm, No. of poles: 14, 180°, Box |

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| 1748530000 | B2L 3.5/14 LH SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , 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 ² , Pitch: 3.50 mm, No. of poles: 32, 180°, Box |

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| 1748620000 | B2L 3.5/32 LH SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1 mm ² , 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 ² , 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 ² , 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 ² , 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 ² , Pitch: 3.50 mm, No. of poles: 36, 180°, Box |