



General ordering data

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| Order No. | 1690200000 |
| Part designation | BLZF 3.5/3 SN OR |
| Version | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 3, 180°, Box |
| EAN | 4008190328696 |
| Qty. | 100 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 | 3 |
| No. of rows | 1 |
| Screwdriver blade | 0.4 x 2.5 |
| Screwdriver blade standard | DIN 5264-A |
| Stripping length | 10 mm |
| L1 in mm | 7 mm |
| L1 in inch | 0.276 inch |
| Electric shock protection to DIN VDE 0470 | IP 20 |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

System parameters

Material data

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| 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

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| Clamping range, min. | 0.13 mm ² |
| Clamping range, max. | 1.5 mm ² |
| AWG, min. | 28 |
| AWG, max. | 16 |
| Outer diameter of insulation, max. | 2.9 mm |
| Solid, min. H05(07) V-U | 0.2 mm ² |
| Solid, max. H05(07) V-U | 1.5 mm ² |
| Flexible, min. H05(07) V-K | 0.2 mm ² |
| Flexible, max. H05(07) V-K | 1.5 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 0.2 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 1.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 1 mm ² |
| Gauge to EN 60999 a x b; ø | 2.4 mm x 1.5 mm; |

DIN IEC rating data

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| Rated current, min. No. pins (Tu=20°C) | 14.5 A |
| Rated current, max. No. pins (Tu=20°C) | 10 A |
| Rated current, min. No. pins (Tu=40°C) | 12 A |
| Rated current, max. No. pins (Tu=40°C) | 8 A |
| Rated voltage for overvoltage class/pollution severity II/2 | 320 V |
| Rated voltage for overvoltage class/pollution severity III/2 | 160 V |
| Rated voltage for overvoltage class/pollution severity III/3 | 160 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 100 A |

CSA rating data

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|------------------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A |
| AWG conductor (field wiring), min. | 26 |
| AWG conductor (field wiring), max. | 14 |

CSA rating data

UL 1059 rating data

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|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A |
| AWG conductor, min. | 26 |
| AWG conductor, max. | 14 |

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 | 27-26-07-04 |

Similar products

| Order No. | Part designation | Version |
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| 1690190000 | BLZF 3.5/2 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 2, 180°, Box |
| 1690420000 | BLZF 3.5/2 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 2, 180°, Box |
| 1690430000 | BLZF 3.5/3 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 3, 180°, Box |
| 1690210000 | BLZF 3.5/4 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 4, 180°, Box |
| 1690440000 | BLZF 3.5/4 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 4, 180°, Box |
| 1690220000 | BLZF 3.5/5 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 5, 180°, Box |
| 1690450000 | BLZF 3.5/5 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 5, 180°, Box |
| 1690230000 | BLZF 3.5/6 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 6, 180°, Box |

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| 1690460000 | BLZF 3.5/6 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 6, 180°, Box |
| 1690240000 | BLZF 3.5/7 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 7, 180°, Box |
| 1690470000 | BLZF 3.5/7 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 7, 180°, Box |
| 1690250000 | BLZF 3.5/8 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 8, 180°, Box |
| 1690480000 | BLZF 3.5/8 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 8, 180°, Box |
| 1690260000 | BLZF 3.5/9 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 9, 180°, Box |
| 1690490000 | BLZF 3.5/9 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 9, 180°, Box |
| 1690270000 | BLZF 3.5/10 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 10, 180°, Box |
| 1690500000 | BLZF 3.5/10 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 10, 180°, Box |
| 1690280000 | BLZF 3.5/11 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 11, 180°, Box |
| 1690510000 | BLZF 3.5/11 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 11, 180°, Box |
| 1690290000 | BLZF 3.5/12 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 12, 180°, Box |
| 1690520000 | BLZF 3.5/12 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 12, 180°, Box |
| 1690300000 | BLZF 3.5/13 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 13, 180°, Box |
| 1690530000 | BLZF 3.5/13 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 13, 180°, Box |
| 1690310000 | BLZF 3.5/14 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 14, 180°, Box |
| 1690540000 | BLZF 3.5/14 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 14, 180°, Box |

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| 1690320000 | BLZF 3.5/15 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 15, 180°, Box |
| 1690550000 | BLZF 3.5/15 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 15, 180°, Box |
| 1690330000 | BLZF 3.5/16 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 16, 180°, Box |
| 1690560000 | BLZF 3.5/16 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 16, 180°, Box |
| 1690340000 | BLZF 3.5/17 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 17, 180°, Box |
| 1690570000 | BLZF 3.5/17 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 17, 180°, Box |
| 1690350000 | BLZF 3.5/18 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 18, 180°, Box |
| 1690580000 | BLZF 3.5/18 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 18, 180°, Box |
| 1690360000 | BLZF 3.5/19 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 19, 180°, Box |
| 1690590000 | BLZF 3.5/19 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 19, 180°, Box |
| 1690370000 | BLZF 3.5/20 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 20, 180°, Box |
| 1690600000 | BLZF 3.5/20 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 20, 180°, Box |
| 1690380000 | BLZF 3.5/21 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 21, 180°, Box |
| 1690610000 | BLZF 3.5/21 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 21, 180°, Box |
| 1690390000 | BLZF 3.5/22 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 22, 180°, Box |
| 1690620000 | BLZF 3.5/22 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 22, 180°, Box |
| 1690400000 | BLZF 3.5/23 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 23, 180°, Box |

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| 1690630000 | BLZF 3.5/23 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 23, 180°, Box |
| 1690410000 | BLZF 3.5/24 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 24, 180°, Box |
| 1690640000 | BLZF 3.5/24 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 24, 180°, Box |