

1712458

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PCB direct plug, nominal cross section: 1 mm², color: green, nominal current: 8 A, rated voltage (III/2): 200 V, contact surface: Au, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: ZEC 1,0/..-ST, pitch: 3.5 mm, connection method: Spring-cage connection, mounting: Direct plug-in method, conductor/PCB connection direction: 0 °, plug-in system: ZEC, locking: Snap-in locking, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Gold-plated contacts ensure transfer quality remains stable over the long term
- Defined contact force ensures that contact remains stable over the long term
- · Inexpensive direct plug-in connection with just one component
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- · Plug-in direction parallel to the PCB

Commercial data

| Item number | 1712458 |
|--------------------------------------|---------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AA02 |
| Product key | AABEAA |
| GTIN | 4046356084109 |
| Weight per piece (including packing) | 5.27 g |
| Weight per piece (excluding packing) | 4.841 g |
| Customs tariff number | 85366930 |
| Country of origin | GR |



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Technical data

Product properties

| Product type | PCB direct plug |
|-----------------------|-----------------------|
| Product family | ZEC 1,0/ST |
| Product line | COMBICON Connectors S |
| Number of positions | 4 |
| Pitch | 3.5 mm |
| Number of connections | 4 |
| Number of rows | 1 |
| Number of potentials | 4 |
| Mounting flange | without |

Data management status

| Article revision | 04 |
|------------------|----|

Electrical properties

| Nominal current I _N | 8 A |
|--------------------------------|--------|
| Nominal voltage U _N | 200 V |
| Rated voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 200 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |

Connection data

Connection technology

| Туре | Direct plug connector |
|-------------------------|-----------------------|
| Connector system | ZEC |
| Nominal cross section | 1 mm² |
| Contact connection type | Socket |

Interlock

| Locking type | Snap-in locking |
|-----------------|-----------------|
| Mounting flange | without |

Conductor connection

| Connection method | Spring-cage connection |
|---|------------------------|
| Connection direction of the conductor to plug-in direction | 0° |
| Conductor cross section rigid | 0.2 mm² 1 mm² |
| Conductor cross section flexible | 0.2 mm² 1 mm² |
| Conductor cross section AWG | 24 16 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² 1 mm² |



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| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² 0.75 mm² |
|---|--|
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² 0.5 mm² |
| Stripping length | 7 mm |
| Specifications for ferrules without insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| Specifications for ferrules with insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| ounting | |
| Mounting type | Direct plug-in method |
| aterial specifications | |
| Material data - contact | |
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
| | |

Cu alloy

partially gold-plated

Gold (0.8 - 1.4 µm Au)

Nickel (2 - 4 µm Ni)

Tin (4 - 8 μm Sn)
Nickel (2 - 4 μm Ni)

Material data - housing

Contact material

Surface characteristics

Metal surface terminal point (top layer)

Metal surface terminal point (middle layer)
Metal surface contact area (top layer)

Metal surface contact area (middle layer)

| Color (Housing) | green (6021) |
|---|--------------|
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |
| Glow wire flammability index GWFI according to EN 60695-2-12 | 850 |
| Glow wire ignition temperature GWIT according to EN 60695-2-13 | 775 |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

Notes

| SV | In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load. |
|----|--|
|----|--|

Dimensions



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| Dimensional drawing | h |
|---------------------|----------|
| Pitch | 3.5 mm |
| Width [w] | 15.4 mm |
| Height [h] | 17.5 mm |
| Length [I] | 24.05 mm |

Electrical tests

Air clearances and creepage distances |

| Specification | IEC 60664-1:2007-04 |
|--|---------------------|
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/3) | 1.5 mm |
| minimum creepage distance (III/3) | 2 mm |
| Rated insulation voltage (III/2) | 200 V |
| Rated surge voltage (III/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2) | 1.5 mm |
| Rated insulation voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (II/2) | 1.5 mm |
| minimum creepage distance (II/2) | 1.6 mm |
| | |

Environmental and real-life conditions

Ambient conditions

| Ambient temperature (operation) | -40 °C 100 °C (dependent on the derating curve) |
|---|---|
| Ambient temperature (storage/transport) | -40 °C 70 °C |
| Relative humidity (storage/transport) | 30 % 70 % |
| Ambient temperature (assembly) | -5 °C 100 °C |

Packaging specifications

| Type of packaging | packed in cardboard |
|-------------------|---------------------|



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1712458

| e Flus cl | CULus Recognized Approval ID: E60425-19941110 | | | |
|------------------|---|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U_N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| Use group B | | | | |
| | 150 V | 8 A | 26 - 16 | - |

| ₩ DE | VDE Gutachten mit Fertigungsüberwachung Approval ID: 40020343 | | | | |
|-------------|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 160 V | 8 A | - | 0.2 - 1 |



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Classifications

ECLASS

| | ECLASS-11.0 | 27460202 |
|--------|-------------|----------|
| | ECLASS-12.0 | 27460202 |
| | ECLASS-13.0 | 27460202 |
| ETIM | | |
| | ETIM 9.0 | EC002638 |
| | 211111 0:0 | 25002500 |
| UNSPSC | | |
| | UNSPSC 21.0 | 39121400 |



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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes, No exemptions | |
|---|--|--|
| China RoHS | | |
| Environment friendly use period (EFUP) | EFUP-E | |
| | No hazardous substances above the limits | |
| EU REACH SVHC | | |
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% | |

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