1913523

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 6/..-ST, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve

Commercial data

| Item number | 1913523 |
|--------------------------------------|---------------------|
| Packing unit | 25 pc |
| Minimum order quantity | 25 pc |
| Sales key | AA04 |
| Product key | AADADA |
| Catalog page | Page 550 (C-1-2013) |
| GTIN | 4017918179007 |
| Weight per piece (including packing) | 34.3 g |
| Weight per piece (excluding packing) | 32.11 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |



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Technical data

Product properties

| Туре | Standard |
|-----------------------|-----------------------|
| Product line | COMBICON Connectors L |
| Product type | PCB connector |
| Product family | PC 6/ST |
| Number of positions | 4 |
| Pitch | 10.16 mm |
| Number of connections | 4 |
| Number of rows | 1 |
| Mounting flange | without |
| Number of potentials | 4 |

Electrical properties

| Nominal current I _N | 41 A |
|--------------------------------|--------|
| Nominal voltage U _N | 1000 V |
| Degree of pollution | 3 |
| Contact resistance | 0.5 mΩ |
| Rated voltage (III/3) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| Rated voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |

Connection data

Connection technology

| Туре | Standard |
|-------------------------|-------------------|
| Connector system | COMBICON PC 16 |
| Nominal cross section | 6 mm ² |
| Contact connection type | Socket |
| | |

Interlock

| Locking type | without |
|-----------------|---------|
| Mounting flange | without |

Conductor connection

| Connection method | Screw connection with tension sleeve |
|--|---|
| Conductor/PCB connection direction | 0 ° |
| Conductor cross section rigid | 0.75 mm ² 10 mm ² |
| Conductor cross section flexible | 0.75 mm² 6 mm² |
| Conductor cross section AWG | 18 8 |
| Conductor cross section flexible, with ferrule without plastic | 0.5 mm² 6 mm² |

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| sleeve | |
|---|---|
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.5 mm ² 6 mm ² |
| 2 conductors with same cross section, solid | 0.75 mm² 4 mm² |
| 2 conductors with same cross section, flexible | 0.75 mm ² 6 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm ² 2.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² 4 mm² |
| Cylindrical gauge a x b / diameter | 4.3 mm x 4.0 mm / 4.3 mm |
| Stripping length | 12 mm |
| Tightening torque | 1.2 Nm 1.5 Nm |

Material specifications

Material data - contact

| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
|--|--|
| Contact material | Cu alloy |
| Surface characteristics | Selective coating |
| Metal surface terminal point (top layer) | Silver (4 - 8 µm Ag) |
| Metal surface contact area (top layer) | Silver (4 - 8 µm Ag) |

Material data - housing

| Color (Housing) | green (6021) |
|---|--------------|
| Insulating material | PA |
| Insulating material group | 1 |
| 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 |

Dimensions

Dimensional drawingImage: Constraint of the second sec

Mounting

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| Drive | e form screw head | Slotted (L) |
|----------|--|--|
| Con | nection method | Screw connection with tension sleeve |
| Drive | e form screw head | Slotted (L) |
| otes | | |
| Note | es on operation | 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. |
| echan | ical tests | |
| Test for | conductor damage and slackening | |
| Spec | sification | IEC 60999-1:1999-11 |
| Resu | ult | Test passed |
| Pull-out | t test | |
| Spec | cification | IEC 60999-1:1999-11 |
| Cond | ductor cross section/conductor type/tractive force | 0.75 mm² / solid / > 30 N |
| setp | oint/actual value | 0.75 mm² / flexible / > 30 N |
| | | 10 mm² / solid / > 90 N |
| | | 6 mm² / flexible / > 80 N |
| Insertio | n and withdrawal forces | |
| Resu | JIt | Test passed |
| No. d | of cycles | 50 |
| Inse | rtion strength per pos. approx. | 11 N |
| With | draw strength per pos. approx. | 14 N |
| Torque | test | |
| Spec | sification | IEC 60999-1:1999-11 |
| Resista | nce of inscriptions | |
| | ification | IEC 60068-2-70:1995-12 |
| Resu | | Test passed |
| Polariza | ation and coding | |
| | cification | IEC 60512-13-5:2006-02 |
| Resu | ult | Test passed |
| Visual i | nspection | |
| | zification | IEC 60512-1-1:2002-02 |
| Resu | | Test passed |
| | | |
| Dimens | ion check | |
| | sion check cification | IEC 60512-1-2:2002-02 |

Environmental and real-life conditions



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minimum creepage distance (III/3)

| ibration test | |
|--|---|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz 60.1 Hz) |
| Sweep speed | 5g (60.1 Hz 150 Hz) |
| Test duration per axis | 2.5 h |
| Durability test | |
| Specification | IEC 60512-9-1:2010-03 |
| Impulse withstand voltage at sea level | 9.8 kV |
| Contact resistance R ₁ | 0.5 mΩ |
| Contact resistance R ₂ | 0.4 mΩ |
| Insertion/withdrawal cycles | 50 |
| Insulation resistance, neighboring positions | > 5 MΩ |
| Climatic test | |
| Specification | ISO 6988:1985-02 |
| Corrosive stress | 0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle |
| Thermal stress | 100 °C/168 h |
| Power-frequency withstand voltage | 4.26 kV |
| Ambient conditions | |
| | -40 °C 100 °C (dependent on the derating curve) |
| Ambient temperature (operation) Ambient temperature (storage/transport) | -40 °C 70 °C |
| Relative humidity (storage/transport) | 30 % 70 % |
| Ambient temperature (assembly) | -5 °C 100 °C |
| ctrical tests | |
| Thermal test Test group C | |
| Specification | IEC 60512-5-1:2002-02 |
| Tested number of positions | 9 |
| nsulation resistance | |
| Specification | IEC 60512-3-1:2002-02 |
| opeonication | |
| Insulation resistance, neighboring positions | > 5 MΩ |
| Insulation resistance, neighboring positions | > 5 MΩ |
| Insulation resistance, neighboring positions | > 5 MΩ IEC 60664-1:2007-04 |
| Insulation resistance, neighboring positions | |
| Insulation resistance, neighboring positions Air clearances and creepage distances Specification | |
| Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group | IEC 60664-1:2007-04 |
| Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) | IEC 60664-1:2007-04 I CTI 600 |
| Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) | IEC 60664-1:2007-04 I CTI 600 1000 V |

12.5 mm



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| Rated insulation voltage (III/2) | 1000 V |
|--|--------|
| Rated surge voltage (III/2) | 8 kV |
| minimum clearance value - non-homogenous field (III/2) | 8 mm |
| minimum creepage distance (III/2) | 8 mm |
| Rated insulation voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |
| minimum clearance value - non-homogenous field (II/2) | 5.5 mm |
| minimum creepage distance (II/2) | 5.5 mm |

Packaging specifications

Type of packaging

packed in cardboard

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com **PHŒNIX** CONTACT