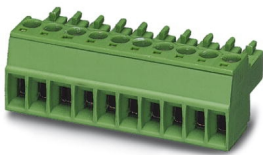


PCB plug - MC 1,5/ 3-ST-3,81 OGBD-FVPE500 - 1714351

<https://www.phoenixcontact.com/in/products/1714351>

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PCB connector, nominal cross section: 1.5 mm², color: orange, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, Number of potentials: 3, Number of rows: 1, Number of positions per row: 3, number of connections: 3, product range: MC 1,5/...-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, conductor/PCB connection direction: 0 °, Stecksystem: MINI COMBICON, Locking: 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

PCB plug - MC 1,5/ 3-ST-3,81 OGBD-FVPE500 - 1714351



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Commercial Data

Order Key	1714351
Packing unit	500 pc
Minimum order quantity	500 pc
Note	Made to Order (non-returnable)
GTIN	4055626498201
Weight per Piece (including packing)	2.2 GRM
Weight per Piece (excluding packing)	2.2 GRM
Customs tariff number	85366990

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Technical Data

Mounting

Drive form screw head	Slotted
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Electrical tests

Electrical properties

Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Pollution degree	2

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Note on connection cross section	With connected conductor 1.5 mm ² (solid).
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

Electrical properties

Contact resistance	1.5 mΩ
Insulation resistance	15 TΩ, (IEC 60512-3-1:2002-02)
Contact resistance	1.2 mΩ
Insulation resistance	> 11 TΩ, (IEC 60512-3-1:2002-02)
Contact resistance	1.8 mΩ
Insulation resistance	10 ¹² Ω, (IEC 60512-3-1:2002-02)
Contact resistance	1.2 mΩ
Insulation resistance	> 89 TΩ, (IEC 60512-3-1:2002-02)
Insulation resistance	> 2 TΩ, (IEC 60512-3-1:2002-02)
Contact resistance	3.3 mΩ
Insulation resistance	> 38 GΩ, (IEC 60512-3-1:2002-02)
Contact resistance	2 mΩ
Insulation resistance	> 0.2 TΩ, (IEC 60512-3-1:2002-02)
Contact resistance	3.4 mΩ
Insulation resistance	> 50 GΩ, (IEC 60512-3-1:2002-02)
Contact resistance	2.7 mΩ
Insulation resistance	> 0.1 TΩ, (IEC 60512-3-1:2002-02)
Contact resistance	2 mΩ
Insulation resistance	> 0.2 TΩ, (IEC 60512-3-1:2002-02)

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Nominal current I_N

8 A

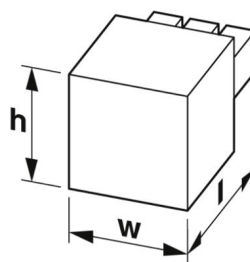
Packaging specifications

Type of packaging

packed in cardboard

Dimensions

Dimensional drawing



Width

12.22 mm

Height

11.1 mm

Installed height

11.1 mm

Length

16.1 mm

Pitch

3.81 mm

Ambient conditions

Ambient temperature (operation)

-40 °C ... 100 °C (dependent on the derating curve)

Ambient temperature (storage/transport)

-40 °C ... 70 °C

Ambient temperature (assembly)

-5 °C ... 100 °C

Notes

Environmental Product Compliance

China RoHS

Environmentally Friendly Use Period = 50 years

China RoHS

For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Connection data

Connection technology

Type

Standard

Plug-in system

MINI COMBICON

Nominal cross section

1.5 mm²

Type of contact

Female connector

Conductor connection

Connection method

Screw connection with tension sleeve

Conductor cross section solid

0.14 mm² ... 1.5 mm²

Conductor cross section flexible

0.14 mm² ... 1.5 mm²

Conductor cross section AWG

28 ... 16

Conductor cross section flexible, with ferrule without plastic

0.25 mm² ... 1.5 mm²

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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 0.5 mm ²
2 conductors with same cross section, solid	0.08 mm ² ... 0.5 mm ²
2 conductors with same cross section, flexible	0.08 mm ² ... 0.75 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 0.34 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 0.5 mm ²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	7 mm
Torque	0.22 Nm ... 0.25 Nm

Interlock

Locking type	without
Mounting flange	without

Material specifications

Material data - housing

Housing color	orange (2003)
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

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	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)

Product properties

Number of positions	3
Number of connections	3
Number of levels	1
Plug-in system	MINI COMBICON
Number of potentials	3

PCB plug - MC 1,5/ 3-ST-3,81 OGBD- FVPE500 - 1714351



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