

PCB plug - FRONT-FMC 1,5/D28-FF-6,35-R - 1714761

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PCB connector, nominal cross section: 1.5 mm², color: light gray, nominal current: 6 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, Number of potentials: 56, Number of rows: 2, Number of positions per row: 28, number of connections: 56, product range: FRONT-FMC 1,5/...-FF, pitch: 6.35 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, pin layout: Linear pinning, Locking: Screw locking, type of packaging: packed in cardboard

Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Intuitive use through colour coded actuation lever
- Operation and conductor connection from one direction enable integration into front of device
- Screwable flange for superior mechanical stability

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Commercial Data

Order Key	1714761
Packing unit	20 pc
Minimum order quantity	500 pc
Sales Key	AAA
GTIN	4055626387758
Weight per Piece (including packing)	42.5 GRM
Weight per Piece (excluding packing)	42.5 GRM
Customs tariff number	85366990

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Technical Data

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	32

Electrical properties

Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Contact resistance	1.7 mΩ
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
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm

Electrical properties

Nominal current I_N	6 A
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Packaging specifications

Type of packaging	packed in cardboard
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Environmental and real-life conditions

Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R_1	1.7 mΩ
Contact resistance R_2	1.8 mΩ
Insertion/withdrawal cycles	50

Climatic test

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Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	2.21 kV

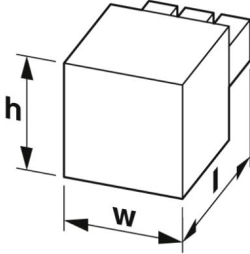
Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Sweep speed	5 g (60.1 - 150 Hz)
Test duration per axis	2.5 h

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	5g
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

Dimensions

Dimensional drawing	
Width	117.23 mm
Height	31 mm
Installed height	24.75 mm
Length	17.27 mm
Pitch	6.35 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C

Mechanical tests

Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Result	Test passed

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Test force per pos.	26 N
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Repeated connection and disconnection

Specification	IEC 60999-1:1999-11
Result	Test passed

Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

Insertion and withdrawal forces

Result	Test passed
No. of cycles	50
Insertion strength per pos. approx.	5 N
Withdraw strength per pos. approx.	3.5 N

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.5 mm ² / solid / > 20 N
Conductor cross section/conductor type/tractive force setpoint/actual value	0.5 mm ² / flexible / > 20 N
Conductor cross section/conductor type/tractive force setpoint/actual value	1.5 mm ² / solid / > 40 N
Conductor cross section/conductor type/tractive force setpoint/actual value	1.5 mm ² / flexible / > 40 N

Visual inspection

Specification	IEC 60512-1-1:2002-02
Result	Test passed

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Dimension check

Specification	IEC 60512-1-2:2002-02
Result	Test passed

Notes

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
China RoHS	No hazardous substances above threshold values

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Connection data

Connection technology

Plug-in system	
Nominal cross section	1.5 mm ²
Type of contact	Female connector

Conductor connection

Connection method	Push-in spring connection
Conductor cross section solid	0.5 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.5 mm ² ... 1.5 mm ²
Conductor cross section AWG	20 ... 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm ² ... 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm ² ... 1.5 mm ²
Cylindrical gauge a x b / diameter	- / 1.8 mm
Stripping length	12 mm

Interlock

Locking type	Screw locking
Mounting flange	Screw flange

Material specifications

Material data – actuating element

Color of the actuating lever	orange (2003)
Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Material data - housing

Housing color	light gray (7035)
Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

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)

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Product properties

Number of positions	28
Number of connections	56
Number of levels	2
Plug-in system	
Mounting flange	Screw flange
Number of potentials	56
Pin layout	Linear pinning

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