

1161188

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of rows: 1, number of positions: 3, product range: FKCOR 2,5/..-STF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard, Satisfies the requirements of the "APL Port Profile Specification"

Your advantages

- · The conductor connection orthogonal to the direction of operation simplifies the cabling of DIN-rail-mountable devices
- · Time saving push-in connection, tools not required
- · Intuitive operation due to color-coded actuating push button
- · Screwable flange for superior mechanical stability
- · Can be combined with the MSTB 2,5 range

Commercial data

Item number	1161188
Packing unit	250 pc
Minimum order quantity	250 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACFGD
GTIN	4063151168759
Weight per piece (including packing)	4.87 g
Weight per piece (excluding packing)	4.779 g
Customs tariff number	85366990
Country of origin	SK



1161188

https://www.phoenixcontact.com/us/products/1161188

Technical data

Product properties

Product type	PCB connector
Product family	FKCOR 2,5/STF
Product line	COMBICON Connectors M
Number of positions	3
Pitch	5.08 mm
Number of rows	1

Electrical properties

Properties

_ ·	
Nominal current I _N	12 A
Nominal voltage U _N	320 V
Contact resistance	1.1 mΩ
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Data transmission

Signal type	APL
Transmission medium	Copper
Transmission characteristics (category)	CAT A
Data transmission rate	10 Mbps

Connection data

Connection technology

Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm²
Contact connection type	Socket

Interlock

Locking type	Screw locking mechanism
Mounting type	Screw flange
Tightening torque	0.3 Nm

Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	90 °
Conductor cross-section rigid	0.2 mm² 2.5 mm²
Conductor cross-section flexible	0.2 mm² 2.5 mm²



1161188

https://www.phoenixcontact.com/us/products/1161188

Conductor cross-section AWG	24 12
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.14 mm² 2.5 mm²
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.3 mm
Stripping length	10 mm
Specifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 7 mm
	Cross section: 0.34 mm²; Length: 7 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
	Cross section: 0.75 mm²; Length: 8 mm 10 mm
	Cross section: 1 mm²; Length: 8 mm 10 mm
	Cross section: 1.5 mm ² ; Length: 8 mm 10 mm
	Cross section: 2.5 mm²; Length: 8 mm 10 mm
Specifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.14 mm²; Length: 8 mm
	Cross section: 0.25 mm²; Length: 8 mm 10 mm
	Cross section: 0.34 mm ² ; Length: 8 mm 10 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
	Cross section: 0.75 mm ² ; Length: 8 mm 10 mm
	Cross section: 1.5 mm ² ; Length: 8 mm 10 mm
	Cross section: 2.5 mm²; Length: 10 mm

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	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)

Material data - housing

Material data Hodoling	
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



1161188

https://www.phoenixcontact.com/us/products/1161188

Temperature for the ball pressure test according to EN 60695-10-2	125 °C
Material data – actuating element	
Color (Actuating element)	orange (2003)
Insulating material	РВТ
Insulating material group	Illa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0
Dimensions	
Dimensional drawing	h
Pitch	5.08 mm
Width [w]	25.22 mm
Height [h]	14.3 mm
Length [I]	23.7 mm
Mounting Flange Tightening torque	0.3 Nm
Notes	
Notes 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.
Mechanical tests	progget men and an arrange of the second of
Conductor connection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Repeated connection and disconnection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11



1161188

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Conductor cross-section/conductor type/tractive force setpoint/actual value	0.2 mm ² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
nsertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	10 N
Withdraw strength per pos. approx.	11 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
	IEC 60512-1-2:2002-02
Specification	

Environmental and real-life conditions

Vibration 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)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	1.1 mΩ
Contact resistance R ₂	1.1 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ

Climatic test



1161188

Specification

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Corrosive stress	0.0 1 3.00 000 1 3.10 0011 1
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
ocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
nbient conditions	
Ambient temperature (operation)	-40 °C 105 °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
iermai test Test group C	
	IEC 60512 5 1:2002 02
Specification	IEC 60512-5-1:2002-02
Specification	IEC 60512-5-1:2002-02 24
Specification Tested number of positions	
Specification Tested number of positions sulation resistance	
Specification Tested number of positions sulation resistance Specification	24
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions	24 IEC 60512-3-1:2002-02
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions	24 IEC 60512-3-1:2002-02
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions clearances and creepage distances Specification	24 IEC 60512-3-1:2002-02 > 5 ΜΩ
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions clearances and creepage distances Specification	24 IEC 60512-3-1:2002-02 > 5 ΜΩ
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	24 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	24 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions r clearances and creepage distances Specification Insulating material group	24 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions r clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	24 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV
Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions r clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	24 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm
Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	24 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm

3 mm

3 mm

630 V 4 kV

3 mm

3.2 mm

ISO 6988:1985-02

Packaging specifications

minimum clearance value - non-homogenous field (III/2)

minimum clearance value - non-homogenous field (II/2)

minimum creepage distance (III/2)

minimum creepage distance (II/2)

Rated insulation voltage (II/2)

Rated surge voltage (II/2)



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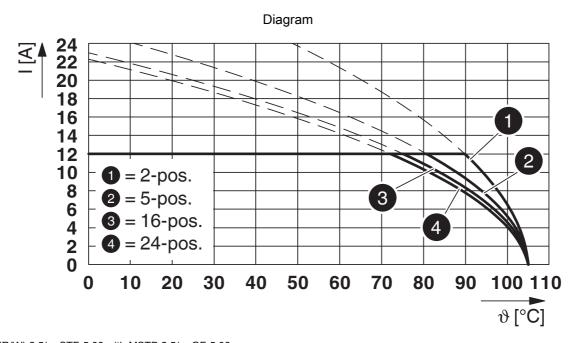
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Drawings



Type: FKCO(R/W) 2,5/...-STF-5,08 with MSTB 2,5/...-GF-5,08



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Classifications

ECLASS

	FOLA 0.0 4.0 0	07400000
	ECLASS-13.0	27460202
	ECLASS-15.0	27460202
ETIM		
	ETIM 9.0	EC002638
UN	ISPSC	

UNSPSC 21.0 39121400



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Environmental product compliance

EU Rol	НS
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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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