

1881354

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PCB connector, nominal cross section: 0.5 mm², color: green, nominal current: 4 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: FK-MC 0,5/. .-ST, pitch: 2.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON FK-MC 0,5, locking: without, mounting: without, 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 operation due to color-coded actuating push button
- · Operation and conductor connection from one direction enable integration into front of device
- · Quick and convenient testing using integrated test option

Commercial data

Item number	1881354
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA01
Product key	AAAFCA
Catalog page	Page 168 (C-1-2013)
GTIN	4017918156602
Weight per piece (including packing)	3.232 g
Weight per piece (excluding packing)	2.884 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Туре	Standard
Product line	COMBICON Connectors XS
Product type	PCB connector
Product family	FK-MC 0,5/ST
Number of positions	5
Pitch	2.5 mm
Number of connections	5
Number of rows	1
Mounting flange	without
Number of potentials	5

Electrical properties

Nominal current I _N	4 A
Nominal voltage U _N	160 V
Degree of pollution	3
Contact resistance	2 mΩ
Rated voltage (III/3)	100 V
Rated surge voltage (III/3)	1.5 kV
Rated voltage (III/2)	160 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	Standard
Connector system	COMBICON FK-MC 0,5
Nominal cross section	0.5 mm ²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.14 mm² 0.5 mm²
Conductor cross section flexible	0.14 mm² 0.5 mm²
Conductor cross section AWG	26 20
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 0.5 mm²



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sleeve	
Cylindrical gauge a x b / diameter	- / 1.4 mm
Stripping length	8 mm
Specifications for ferrules without insulating collar recommended crimping tool	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	1212034 CRIMPFOX 6 Cross section: 0.25 mm²; Length: 7 mm 8 mm
	12.200.000

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

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

Material data – actuating element

Color (Actuating element)	orange (2003)
Insulating material	PBT
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	2.5 mm



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Width [w]	13.1 mm
Height [h]	11.75 mm
Length [I]	19.05 mm
tes	
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
chanical tests	
Conductor connection	
Specification	IEC 60999-1:1999-11
Result	Test passed
est 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
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	0.5 mm² / solid / > 20 N
	0.5 mm² / flexible / > 20 N
nsertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 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
/isual inspection	
Specification	IEC 60512-1-1:2002-02



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Result

Air clearances and creepage distances |

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Specification	IEC 60512-1-2:2002-02
Result	Test passed
resuit	Test passeu
rironmental and real-life conditions	
/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
	2.0
Durability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2 mΩ
Contact resistance R ₂	2.2 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
limatic 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	1.39 kV
mbient 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
ectrical tests	
hermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
	-
nsulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Femperature cycles	
Specification	IEC 60999-1:1999-11

Test passed



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ecification	IEC 60664-1:1992-10 + A1:2000-02 + A2:2002-05
sulating material group	I
emparative tracking index (IEC 60112)	CTI 600
ated insulation voltage (III/3)	100 V
ted surge voltage (III/3)	1.5 kV
nimum clearance value - non-homogenous field (III/3)	0.8 mm
nimum creepage distance (III/3)	1.8 mm
ted insulation voltage (III/2)	160 V
ed surge voltage (III/2)	2.5 kV
mum clearance value - non-homogenous field (III/2)	1.5 mm
mum creepage distance (III/2)	1.5 mm
ed insulation voltage (II/2)	320 V
ed surge voltage (II/2)	2.5 kV
imum clearance value - non-homogenous field (II/2)	1.5 mm
nimum creepage distance (II/2)	1.6 mm

Packaging specifications

donaging opcomoditions	
Type of packaging	packed in cardboard



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202
ETIM	
ETIM 9.0	EC002638
UNSPSC	

39121400



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Environmental product compliance

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

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