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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 16 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Socket, number of rows: 1, number of positions: 9, product range: GFKC 2,5 HC/..-ST, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5 HC, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- · Intuitive operation due to color-coded actuating push button
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Larger pitch for increased voltage requirements
- · Optimized for tight installation situations: operation and conductor connection from one direction
- · Quick and convenient testing using integrated test option

Commercial data

Item number	1183933
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AACFDD
GTIN	4063151221942
Weight per piece (including packing)	18.45 g
Weight per piece (excluding packing)	17.484 g
Country of origin	DE



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Technical data

Product properties

Product line	COMBICON Connectors M
Product type	PCB connector
Product family	GFKC 2,5 HC/ST
Number of positions	9
Pitch	7.62 mm
Number of rows	1

Electrical properties

Nominal current I _N	16 A
Nominal voltage U _N	630 V
Degree of pollution	3
Contact resistance	1.3 mΩ
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

COMBICON MSTB 2,5 HC
2.5 mm ²
Socket
without
without
Push-in spring connection
0 °
0.2 mm ² 2.5 mm ²
0.2 mm² 2.5 mm²
24 12
0.25 mm ² 2.5 mm ²
0.25 mm² 1.5 mm²
0.2 mm² 1 mm²
0.2 mm ² 1.5 mm ²
0.25 mm² 1 mm²

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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.9 mm
Stripping length	10 mm
Specifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6

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	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

Material data - actuating element

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

Dimensions

Dimensional drawing	h w
Pitch	7.62 mm
Width [w]	66.66 mm

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Height [h]	15 mm
Length [I]	25.56 mm

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

IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
0.2 mm² / solid / > 10 N
0.2 mm² / flexible / > 10 N
2.5 mm² / solid / > 50 N
2.5 mm² / flexible / > 50 N
Test passed
25
5.5 N
5 N
IEC 60068-2-70:1995-12
Test passed
IEC 60512-13-5:2006-02
Test passed
IEC 60512-1-1:2002-02
Test passed
IEC 60512-1-2:2002-02

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Result	Test passed
vironmental 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
urability test	
Specification	IEC 60512-5:1992-08
Impulse withstand voltage at sea level	7.3 kV
Contact resistance R ₁	1.3 mΩ
Contact resistance R ₂	1.5 mΩ
Insertion/withdrawal cycles	25
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	3.31 kV
nbient conditions	
Ambient temperature (operation)	-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 %
	-5 °C 100 °C
Ambient temperature (assembly)	-5 C 100 C
ctrical tests	
hermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	6
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	$10^{12}\Omega$
emperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
ir clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I

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Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	5.5 mm
Note on connection cross section	With connected conductor 2.5 mm ² (solid).
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
minimum clearance value - non-homogenous field (III/2)	5.5 mm
minimum creepage distance (III/2)	5.5 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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Classifications

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

ETIM

	ETIM 9.0	EC002638		
UNSPSC				
	UNSPSC 21.0	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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