

1768884

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: MC 1,5/..-ST, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting method: without, type of packaging: packed in cardboard, Pull-out aid (STZ2)

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point

Commercial data

Item number	1768884
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA02
Product key	AABAAA
GTIN	4046356444743
Weight per piece (including packing)	5.59 g
Weight per piece (excluding packing)	5.214 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	MC 1,5/ST
Product line	COMBICON Connectors S
Number of positions	7
Pitch	3.5 mm
Number of connections	7
Number of rows	1
Number of potentials	7
Mounting type	without

Electrical properties

Properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Contact resistance	1.3 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 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

Connector system	COMBICON MC 1,5	
Nominal cross section	1.5 mm²	
Contact connection type	Socket	

Interlock

Locking type	without
Mounting type	without

Conductor connection

Conductor connection	
Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.08 mm² 1.5 mm²
Conductor cross-section flexible	0.08 mm² 1.5 mm²
Conductor cross-section AWG	28 16
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.5 mm²



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0.08 mm² 0.5 mm²		
0.08 mm² 0.75 mm²		
0.25 mm² 0.34 mm²		
0.5 mm² 0.5 mm²		
2.4 mm x 1.5 mm / 1.6 mm		
7 mm		
Slotted (L)		
0.22 Nm 0.25 Nm		
1212034 CRIMPFOX 6		
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	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

Dimensions

Dimensional drawing	h
Pitch	3.5 mm
Width [w]	24.5 mm



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Height [h]	11.6 mm		
Length [I]	41 mm		
otes			
Note on application	The 0.08 mm² conductors must be placed in the center of the clamping space when installing them. This must be checked at installation.		
echanical tests			
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	0.14 mm² / solid / > 10 N		
	0.14 mm² / flexible / > 10 N		
	1.5 mm² / solid / > 40 N		
	1.5 mm² / flexible / > 40 N		
Insertion and withdrawal forces			
Specification	IEC 60512-13-2:2006-02		
Result	Test passed		
No. of cycles	25		
Insertion strength per pos. approx.	6 N		
Withdraw strength per pos. approx.	4 N		
Torque test			
Specification	IEC 60999-1:1999-11		
Resistance of inscriptions	JEO 00000 0 70 4005 40		
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			
Specification	IEC 60512-1-2:2002-02		
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Environmental and real-life conditions



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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	2.95 kV
Contact resistance R ₁	1.3 mΩ
Contact resistance R ₂	1.4 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ

Climatic test

Specification	ISO 6988:1985-02	
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm 3 /40 °C/1 cycle	
Thermal stress	100 °C/168 h	
Power-frequency withstand voltage	1.39 kV	

Ambient 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

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	20

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04	
Insulating material group	I	
Comparative tracking index (IEC 60112)	CTI 600	
Rated insulation voltage (III/3)	160 V	
Rated surge voltage (III/3)	2.5 kV	
minimum clearance value - non-homogenous field (III/3)	1.5 mm	



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minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

Packaging specifications

Type of packaging	packed in cardboard
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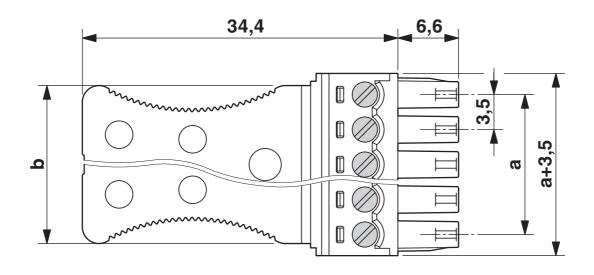


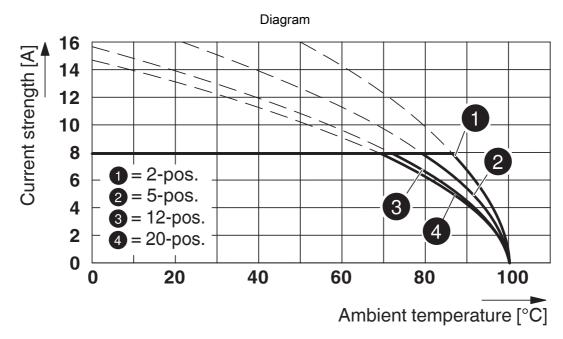
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Drawings

Dimensional drawing





Type: MC 1,5/...-STZ-3,5 with MC 1,5/...-G-3,5



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Approvals

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CULus Recognized Approval ID: E60425-20110128				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	8 A	30 - 14	-
D				
	300 V	8 A	30 - 14	-

	VDE approval of drawings
	Approval ID: 40011723





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Classifications

ECLASS

	ECLASS-13.0	27460202		
	ECLASS-15.0	27460202		
ETIM				
	ETIM 9.0	EC002638		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

EU RoHS

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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