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

Your advantages

- Well-known connection principle allows worldwide use
- · Allows connection of two conductors

Commercial data

Item number	5434544
Packing unit	100 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABAXA
GTIN	4046356493703
Weight per piece (including packing)	1.569 g
Weight per piece (excluding packing)	0.2 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Product properties

Product type	PCB connector
Product family	BCP
Product line	COMBICON Connectors S
Туре	Standard
Number of positions	2
Pitch	3.5 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Mounting flange	without

Electrical properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Degree of pollution	3
Contact resistance	2 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

Туре	Standard
Connector system	BASICLINE 1,5
Nominal cross section	1.5 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 1.5 mm²

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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 0.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² 0.5 mm ²
2 conductors with same cross section, flexible	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 0.34 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.5 mm²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	7 mm
Tightening torque	0.22 Nm 0.25 Nm

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

C C	
Color (Housing)	signal grey (7004)
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

Dimensions

Dimensional drawingImage: Constraint of the second sec

Mounting



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Drive form screw head	Slotted (L)
Drive form screw head	Slotted (L)

Mechanical tests

Test for conductor damage and slackening

Test for conductor damage and stackening	
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	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	7 N
Withdraw strength per pos. approx.	4 N
Torque test	
Specification	IEC 60999-1:1999-11
Resistance of inscriptions	
Specification Result	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-7:1993-08 (Polarization)
Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed

Environmental and real-life conditions

 Vibration test

 Specification
 IEC 60068-2-6:1995-03

 Frequency
 10 - 150 - 10 Hz

 Sweep speed
 1 octave/min

 Amplitude
 0.35 mm (10 Hz ... 60.1 Hz)



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	5g (60.1 Hz 150 Hz)
Sweep speed	Jý (00.1112 130112)
Test duration per axis	2.5 h
urability test	
Specification	IEC 60512-5:1992-08
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2 mΩ
Contact resistance R ₂	2.5 mΩ
Insertion/withdrawal cycles	25
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	$0.2 \text{ dm}^3 \text{ SO}_2 \text{ on } 300 \text{ dm}^3/40 \text{ °C/1 cycle}$
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	1.39 kV
nbient 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 %
	00 /0 10 /0
nermal test Test group C	-5 °C 100 °C
ctrical tests	-5 °C 100 °C IEC 60512-5-1:2002-02
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trical tests eemal test Test group C 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)	IEC 60512-5-1:2002-02 20 IEC 60512-3-1:2002-02 10 ¹² Ω IEC 60664-1:2007-04 I CTI 600 160 V
etrical tests hermal test Test group C 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)	IEC 60512-5-1:2002-02 20 IEC 60512-3-1:2002-02 10 ¹² Ω IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV
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ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance 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) minimum creepage distance (III/3)	$IEC 60512-5-1:2002-02$ 20 $IEC 60512-3-1:2002-02$ $10^{12} \Omega$ $IEC 60664-1:2007-04$ I $CTI 600$ $160 V$ $2.5 kV$ $1.5 mm$ $2 mm$
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ctrical tests hermal test Test group C 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) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2)	$IEC 60512-5-1:2002-02$ 20 $IEC 60512-3-1:2002-02$ $10^{12} \Omega$ $IEC 60664-1:2007-04$ I $CTI 600$ $160 V$ $2.5 kV$ $1.5 mm$ $2 mm$ $160 V$ $2.5 kV$
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	minimum creepage distance (II/2)	1.6 mm	
Pa	Packaging specifications		
	Type of packaging	packed in cardboard	

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