

1703253

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PCB connector, nominal cross section: 16 mm², color: black, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Ag, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 16/..-STF-SH, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: without locking clip, plug-in system: COMBICON PC 16, Electrical properties: shielded, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Shield for adherence to the EMC requirements and an optional strain relief
- · Screwable flange for superior mechanical stability
- · Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve

Commercial data

Item number	1703253
Packing unit	25 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	AAEAAC
GTIN	4046356651356
Weight per piece (including packing)	72.734 g
Weight per piece (excluding packing)	69.682 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Product properties

Product type	PCB connector
Product family	PC 16/STF-SH
Product line	COMBICON Connectors XL
Number of positions	4
Pitch	10.16 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Mounting type	Screw flange
Electrical characteristic	shielded

Electrical properties

Properties

Nominal current I _N Nominal voltage U _N Rated voltage (III/3) Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Shielded	•	
Rated voltage (III/3) Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2)	Nominal current I _N	76 A
Rated surge voltage (III/3) 8 kV Rated voltage (III/2) 1000 V Rated surge voltage (III/2) 8 kV Rated voltage (II/2) 1000 V Rated surge voltage (II/2) 6 kV	Nominal voltage U _N	1000 V
Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) Rated voltage (II/2) Rated surge voltage (II/2) 6 kV	Rated voltage (III/3)	1000 V
Rated surge voltage (III/2) Rated voltage (III/2) Rated surge voltage (II/2) Rated surge voltage (II/2) 6 kV	Rated surge voltage (III/3)	8 kV
Rated voltage (II/2) Rated surge voltage (II/2) 6 kV	Rated voltage (III/2)	1000 V
Rated surge voltage (II/2) 6 kV	Rated surge voltage (III/2)	8 kV
	Rated voltage (II/2)	1000 V
Electrical characteristic shielded	Rated surge voltage (II/2)	6 kV
	Electrical characteristic	shielded

Connection data

Connection technology

Туре	Standard
Connector system	COMBICON PC 16
Nominal cross section	16 mm²
Contact connection type	Socket

Interlock

Locking type	Screw locking mechanism
Mounting type	Screw flange
Tightening torque	0.3 Nm 0.7 Nm

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.75 mm² 16 mm²
Conductor cross-section flexible	0.75 mm ² 16 mm ²



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Conductor cross-section AWG	18 6
Conductor cross-section flexible, with ferrule without plastic sleeve	0.5 mm ² 16 mm ² (Only in connection with CRIMPFOX 16 S)
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm² 10 mm² (Only in connection with CRIMPFOX 16 S)
2 conductors with same cross section, solid	0.75 mm² 6 mm²
2 conductors with same cross section, flexible	0.75 mm² 6 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 6 mm²
Cylindrical gauge a x b / diameter	- / 5.4 mm
Stripping length	12 mm
Drive form screw head	Slotted (L)
Tightening torque	1.7 Nm 1.8 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	Selective coating
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface terminal point (middle layer)	Nickel flash (Ni flash)
Metal surface contact area (top layer)	Silver (2 - 4 µm Ag)
Metal surface contact area (middle layer)	Nickel flash (Ni flash)

Material data - housing

Color (Housing)	black (9005)
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	10.16 mm



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Width [w]	58.4 mm
Height [h]	29.1 mm
Length [I]	89.8 mm

Mounting

Flange

· ·		
Tightening torque	0.3 Nm 0.7 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.

Environmental and real-life conditions

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

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 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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Approvals

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cULus Recognized Approval ID: E60425-20040202				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	600 V	55 A	20 - 6	-
С				
	600 V	55 A	20 - 6	-

	VDE approval of drawings Approval ID: 40055586				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		1000 V	76 A	-	0.75 - 16



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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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