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Feed-through connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: Socket, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: DFK-IPC 16/..-ST, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PC 16, Pin connector pattern alignment: Standard, locking: without, mounting: without, 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
- · Flange system enables secure fixing to the housing panel by means of tool-free snap-in locking or screws
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations

Commercial data

Item number	1703768
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	AA05
Product key	AAEWBA
Catalog page	Page 584 (C-1-2013)
GTIN	4017918994600
Weight per piece (including packing)	93.21 g
Weight per piece (excluding packing)	41.096 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Product properties

Туре	Feed-through header
Product line	COMBICON Connectors XL
Product type	Feed-through connector
Product family	DFK-IPC 16/ST
Number of positions	9
Pitch	10.16 mm
Number of connections	9
Number of rows	1
Mounting flange	without
Number of potentials	9

Electrical properties

Nominal current I _N	76 A
Nominal voltage U _N	1000 V
Degree of pollution	3
Contact resistance	0.35 mΩ
Rated voltage (III/3)	1000 V
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

Connection data

Connection technology

Туре	Feed-through header
Connector system	COMBICON PC 16
Nominal cross section	16 mm ²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	0.75 mm ² 16 mm ²
Conductor cross section flexible	0.75 mm ² 16 mm ²
Conductor cross section AWG	18 6
Conductor cross section flexible, with ferrule without plastic	0.5 mm ² 16 mm ² (Only in connection with CRIMPFOX 16 S)

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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	$0.5\ mm^2$ 16 mm^2 (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 mm ² 6 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm ² 4 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 6 mm ²
Cylindrical gauge a x b / diameter	- / 5.4 mm
Stripping length	12 mm
Tightening torque	1.7 Nm 1.8 Nm

Mounting

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

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	Electroplated silver
Metal surface terminal point (top layer)	Silver (4 - 8 µm Ag)
Metal surface contact area (top layer)	Silver (4 - 8 µm Ag)

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

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.

Dimensions

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Dimensional drawing	h w
Pitch	10.16 mm
Width [w]	115.56 mm
Height [h]	32.05 mm
Length [I]	56.4 mm
Installed height	32.05 mm

Mechanical tests

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	0.75 mm² / solid / > 30 N	
setpoint/actual value	0.75 mm² / flexible / > 30 N	
	16 mm² / solid / > 100 N	
	16 mm² / flexible / > 100 N	
nsertion and withdrawal forces Result	Test passed	
No. of cycles	50	
Insertion strength per pos. approx.	10 N	
Withdraw strength per pos. approx.	8 N	
Forque test		
Specification	IEC 60999-1:1999-11	
Contact holder in insert		
Specification	IEC 60512-15-1:2008-05	

Resistance of inscriptions

Requirements >20 N

IEC 60068-2-70:1995-12 Test passed
Test passed
. eet paeeea
IEC 60512-13-5:2006-02
Test passed

Visual inspection

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Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
ectrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	9
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	1
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

Environmental and real-life conditions

minimum creepage distance (II/2)

minimum clearance value - non-homogenous field (II/2)

Vibration 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	
Durability test		
Specification	IEC 60512-9-1:2010-03	
Impulse withstand voltage at sea level	9.8 kV	

5.5 mm

5.5 mm

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ontact resistance R ₁	0.35 mΩ
Contact resistance R ₂	0.34 mΩ
nsertion/withdrawal cycles	50
nsulation resistance, neighboring positions	> 5 MΩ
natic 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	4.26 kV
bient 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 %

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Classifications

ECLASS

ECLASS-12.0 27460202	ECLASS-11.0	27460202
ECLASS 12.0 27460202	ECLASS-12.0	27460202
ECLASS-13.0 27400202	ECLASS-13.0	27460202

ETIM

	ETIM 9.0	EC002638
UN	NSPSC	
	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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