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Feed-through connector, nominal current: 76 A, number of positions: 2, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Silver



The figure shows a 5-pos. version of the product

#### Your advantages

- ☑ Well-known connection principle allows worldwide use
- ☑ Low temperature rise, thanks to maximum contact force
- Mallows 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



## Key Commercial Data

Packing unit	10 pc
GTIN	4 017918 994532
GTIN	4017918994532

## Technical data

#### Item properties

Brief article description	Feed-through plug
Plug-in system	POWER COMBICON 16
Type of contact	Female connector
Range of articles	DFK-IPC 16/ST
Pitch	10.16 mm
Number of positions	2
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted
Screw thread	M4



## Technical data

### Item properties

Locking	without	
Number of levels	1	
Number of connections	2	
Number of potentials	2	
Electrical parameters		
Rated current	76 A	
Connection capacity		
Conductor cross section solid	0.75 mm² 16 mm²	
Conductor cross section flexible	0.75 mm² 16 mm²	
Conductor cross section AWG / kcmil	18 6	
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm <sup>2</sup> 16 mm <sup>2</sup> (Only in connection with CRIMPFOX 16 S)	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm <sup>2</sup> 16 mm <sup>2</sup> (Only in connection with CRIMPFOX 16 S)	
2 conductors with same cross section, solid	0.75 mm <sup>2</sup> 6 mm <sup>2</sup>	
2 conductors with same cross section, flexible	0.75 mm² 6 mm²	
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.5 mm² 4 mm²	
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm² 6 mm²	
Stripping length	12 mm	
Torque	1.7 Nm 1.8 Nm	

### 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

Insulating material	РА
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 for the product

Length [1]	56.4 mm
Width [ w ]	44.44 mm
Height [ h ]	32.05 mm



# Feed-through plug - DFK-IPC 16/ 2-ST-10,16 - 1703690

## Technical data

## Dimensions for the product

10.16 mm
10.16 mm
packed in cardboard
10
Pcs.
Carton
-40 °C 70 °C
-5 °C 100 °C
-40 °C 100 °C (dependent on the derating curve)
The stripped-off ends of the largest conductor can be completely inserted in the opening of the terminal point without using excessive force.
Test passed
IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
Test passed
0.75 mm² / solid / > 30 N
0.75 mm² / flexible / > 30 N
16 mm² / solid / > 100 N
16 mm² / flexible / > 100 N
Test passed IEC 60512-1-1:2002-02
Test passed IEC 60512-1-2:2002-02
Test passed IEC 60068-2-70:1995-12
Test passed
IEC 60512-13-2:2006-02
50
10 N
8 N
Test passed IEC 60512-13-5:2006-02
Test passed



## Technical data

### Mechanical tests according to standard

Test force per pos.	48 N	
Air clearances and creepage distances		
Specification	IEC 60664-1:2007-04	
Rated insulation voltage (III/3)	1000 V	
Minimum clearance - inhomogeneous field (III/3)	8 mm	
Minimum clearance - inhomogeneous field (III/2)	8 mm	
Minimum clearance - inhomogeneous field (II/2)	5.5 mm	
Minimum creepage distance value (III/3)	12.5 mm	
Minimum creepage distance value (III/2)	5 mm	
Minimum creepage distance value (II/2)	5 mm	
Electrical tests - Function		

## Specification Temperature cycles

Specification	IEC 60999-1:1999-11
Test current (minimum cross section)	9 A DC
Test current (maximum cross section)	76 A DC
Temperature cycles	192

IEC 60999-1:1999-11

## Current carrying capacity / derating curves

### Mechanical tests (A)

Insertion strength per pos. approx.	10 N
Withdraw strength per pos. approx.	8 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

### Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Contact resistance R <sub>1</sub>	0.35 mΩ
Insertion/withdrawal cycles	50
Contact resistance R <sub>2</sub>	0.34 mΩ
Impulse withstand voltage at sea level	9.8 kV
Power-frequency withstand voltage	4.26 kV
Insulation resistance, neighboring positions	6 ΤΩ

### Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h
Thermal stress	100 °C/168 h
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Impulse withstand voltage at sea level	9.8 kV



## Technical data

## Climatic tests (D)

Power-frequency withstand voltage	4.26 kV			
Environmental and durability tests (E)				
Specification	IEC 61984:2008-10			
Result, degree of protection, IP code	Finger safety with IP20 test finger			
Environmental Product Compliance				
REACh SVHC	Lead 7439-92-1			
China RoHS	Environmentally Friendly Use Period = 50			
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"			

## Approvals

## Approvals

#### Approvals

EAC / cULus Recognized

Ex Approvals

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### Approval details

EAC	ERC	B.017	42
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cULus Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E60425-20040202	
	В	C
Nominal voltage UN	600 V	600 V
Nominal current IN	55 A	55 A
mm²/AWG/kcmil	20-6	20-6



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