

1714903

https://www.phoenixcontact.com/us/products/1714903

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IDC female connector, nominal current: 1.2 A, Test voltage: 500 V AC, number of positions: 16, pitch: 1.27 mm, number of rows: 1, color: black, contact surface: Gold, type of contact: Female connector, For pre-assembled samples, see the "Accessories" tab.

### Your advantages

- · Gold-plated contacts ensure transfer quality remains stable over the long term
- · Compact, high-position board-to-board or wire-to-board connectors for space-saving device designs
- · Can be ordered pre-assembled: IDC female connectors with flat-ribbon cable enable immediate use in the device

### Commercial Data

Item number	1714903		
Packing unit	1 pc		
Minimum order quantity	400 pc		
Note	Made to Order (non-returnable)		
Sales Key	A04		
Product Key	AAXMAA		
GTIN	4055626402833		
Weight per Piece (including packing)	1.86 g		
Weight per Piece (excluding packing)	1.757 g		
Customs tariff number	85366990		
Country of origin	CZ		



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## **Technical Data**

### Notes

Note on application	Please observe the application note on self-assembly in the download area.
Note regarding documentation	Current documents such as 3D models, products family drawings, data sheets or packaging drawings are available in the Download Center.
Notes on operation	The permissible voltage during operation depends on the application, taking into consideration the air clearances and creepage distances within the scope of insulation requirements in accordance with IEC 60664-1.

### Product properties

Product type	IDC female connector	
Number of positions	16	
Pitch	1.27 mm	
Number of rows	2	
Number of potentials	16	

### Electrical properties

Nominal current I <sub>N</sub>	1.2 A IEC 60512-5-2:2002-02 (at 20°C 50-pos.)
Nominal voltage U <sub>N</sub>	AC
Degree of pollution	3
Contact resistance	10 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003
Rated voltage (III/3)	500 V

## Connection data

#### Conductor connection

Connection method Displacement connection	
Conductor cross section AWG	30

### Interlock

Locking type	Snap-in locking
Mounting flange	Self-locking flange

## Dimensions

Pitch	1.27 mm
Width [w]	16.32 mm
Height [h]	4.2 mm
Length [I]	13.65 mm

#### Application

Transco		
Center offset	± 0.7 mm in longitudinal and transverse direction	
Angular tolerance	± 4 ° in longitudinal direction	



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	± 2 ° in transverse direction		
Material specifications			
Material data assets at			
Material data - contact  Note	WEEE/DoUS compliant from of whickers according to IEC		
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201		
Contact material	Cu alloy Selective coating Gold (Au)		
Surface characteristics			
Metal surface contact area (top layer)			
Metal surface contact area (middle layer)	Nickel (Ni) Palladium nickel, (PdNi)		
Material data - housing			
Housing color	black (9005)		
Insulating material	LCP		
Insulating material group	IIIb		
CTI according to IEC 60112	175		
Flammability rating according to UL 94	V0		
Connector			
Connection 1	LCP		
Insulating material CTI according to IEC 60112	175		
Electrical tests  Thermal test   Test group C			
Specification	IEC 60512-5-2:2002-02		
Tested number of positions	50		
Insulation resistance			
Specification	IEC 60512-3-1:2002-02		
Insulation resistance, neighboring positions	≥ 10 GΩ		
Air clearances and creepage distances			
Insulating material group	IIIb		
Rated insulation voltage (III/3)	500 V		
Rated insulation voltage (II/2)	10 V		
Rated surge voltage (II/2)	0.8 kV		
Mechanical tests			
Insertion and withdrawal forces			
Result	Test passed		
Result No. of cycles	Test passed 500		



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Specification	IEC 60068-2-70:1995-12		
Result	Test passed		
sual inspection			
Specification	IEC 60512-1-1:2002-02		
Result	Test passed		
imension check			
Specification	IEC 60512-1-2:2002-02		
Result	Test passed		
vironmental and real-life conditions			
Specification	IEC 60068-2-6:2007-12		
Frequency	10 - 2000 - 10 Hz		
Sweep speed	1 octave/min		
Amplitude	1.5 mm (10 - 60.1 Hz)		
Sweep speed	20g (60.1 - 2000 Hz)		
Test duration per axis	2.5 h		
urability test			
Specification	IEC 60512-9-1:2010-03 (following)		
Impulse withstand voltage at sea level	0.8 kV		
Contact resistance R <sub>1</sub>	10 mΩ		
Contact resistance R <sub>2</sub>	10 mΩ		
Insertion/withdrawal cycles	500		
Insulation resistance, neighboring positions	≥ 10 GΩ		
limatic test			
Specification	IEC 60512-11-7:2003-05		
Corrosive stress	Method 1, 10 days		
Power-frequency withstand voltage	500 V AC		
hocks			
Specification	IEC 60068-2-27:2008-02		
Pulse shape	Semi-sinusoidal		
Acceleration	50g		
Shock duration	11 ms		
Test directions	X-, Y- and Z-axis (pos. and neg.)		
mbient conditions			
Ambient temperature (operation)	-55 °C 125 °C		
Ambient temperature (storage/transport)	-40 °C 70 °C		
Relative humidity (storage/transport)	30 % 70 %		



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## Packaging specifications

Type of packaging	Tray
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## Approvals

c <b>911</b> us	cULus Recogniz Approval ID: E11897	<b>zed</b> 6-20170331			
		Nominal Voltage $U_N$	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
				-	-

EAC
Approval ID: B.00511/19



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## Classifications

### **ECLASS**

	ECLASS-9.0	27440309	
	ECLASS-10.0.1	27440309	
	ECLASS-11.0	27460202	
ETIM			
	ETIM 8.0	EC002638	
UNSPSC			
	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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### Accessories

### IDC female connectors

IDC female connectors - SAMPLE FP 1,27/16-FWL-11/P/0,1 - 1095387 https://www.phoenixcontact.com/us/products/1095387



Assembled IDC female connector, rated current: 1.2 A, Cable 1: cable length: 0. 1 m, Cable type:Flat-ribbon conductor, Flat-ribbon conductor

### SMD male connectors

SMD male connectors - FP 1,27/ 16-MV 3,25 - 1714925 https://www.phoenixcontact.com/us/products/1714925



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 16, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Male connector, mounting: SMD soldering



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#### SMD male connectors

SMD male connectors - FP 1,27/ 16-MV 1,75 - 1714936 https://www.phoenixcontact.com/us/products/1714936



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 16, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Male connector, mounting: SMD soldering

#### SMD male connectors

SMD male connectors - FP 1,27/ 16-MH - 1714914 https://www.phoenixcontact.com/us/products/1714914



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 16, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Male connector, mounting: SMD soldering

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