

## IDC female connectors - FP 1,27/ 16-FWL - 1714903

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IDC female connector, Nominal current at 20 °C: 1.2 A, Test voltage: 500 V AC, number of positions: 16, pitch: 1.27 mm, color: black, contact surface: Gold


The figure shows a 12-pos. version with 12 contacts

### 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
- For individual assembly: IDC female connectors without flat-ribbon cable for maximum flexibility in the device



### Key Commercial Data

Packing unit	400 pc
Minimum order quantity	400 pc
GTIN	 4 055626 402833
GTIN	4055626402833

### Technical data

#### Item properties

Brief article description	IDC female connectors
Plug-in system	Fine Pitch 1,27 mm
Type of contact	Female connector
Range of articles	FP 1,27/...-FWL
Pitch	1.27 mm
Number of positions	16
Connection method	Displacement connection
Number of levels	2
Number of potentials	16

#### Electrical data

# IDC female connectors - FP 1,27/ 16-FWL - 1714903

## Technical data

### Electrical data

Nominal current at 20 °C	1.2 A (50-pos.)
Test voltage	500 V AC
Contact resistance	≤10 mΩ, (IEC 60512-2-1:2002-02)
Insulation resistance	≥ 10 GΩ, (IEC 60512-3-1:2002-02)

### 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 contact area (top layer)	Gold (Au)
Metal surface contact area (middle layer)	Palladium nickel (PdNi)Nickel (Ni)

### Material data - housing

Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

### Dimensions for the product

Length [ l ]	4.2 mm
Width [ w ]	16.32 mm
Height [ h ]	13.65 mm
Pitch	1.27 mm
Dimension a	8.89 mm

### Dimensions for the application

Contact cover	0.9 mm
Overlap length	1.5 mm
Medium offset	± 0.7 mm in longitudinal and transverse direction
Angular tolerance	± 4 ° in longitudinal direction

### Packaging information

Type of packaging	Tray
Pieces per package	400
Denomination packing units	Pcs.

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-55 °C ... 125 °C

### Mechanical tests

Insertion and withdrawal force per contact	approx. 0.5 N
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### Air clearances and creepage distances

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### Technical data

#### Air clearances and creepage distances

Air clearances and creepage distances	min. 0.4 mm
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#### Service life

Service life	500 Insertion/withdrawal cycles, Performance level 1
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#### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Approvals

#### Approvals

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#### Approvals

cULus Recognized

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#### Ex Approvals

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#### Approval details

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> E118976-20170331
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