

## IDC female connectors - FP 1,27/ 40-FWL - 1714908

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IDC female connector, Nominal current at 20 °C: 1.2 A, Test voltage: 500 V AC, number of positions: 40, 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
- Can be ordered pre-assembled: IDC female connectors with flat-ribbon cable enable immediate use in the device



### Key Commercial Data

Packing unit	200 pc
GTIN	 4 055626 402871
GTIN	4055626402871

### Technical data

#### Item properties

Brief article description	IDC female connectors
Plug-in system	FINEPITCH 1,27 mm
Type of contact	Female connector
Range of articles	FP 1,27/...-FWL
Pitch	1.27 mm
Number of positions	40
Connection method	Displacement connection
Number of levels	2
Number of potentials	40

#### Electrical data

Nominal current at 20 °C	1.2 A (50-pos.)
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## Technical data

### Electrical data

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)

### Connection capacity

Connection method	Displacement connection
Conductor cross section AWG / kcmil	30

### 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)	Nickel (Ni), Palladium nickel (PdNi)

### 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 ]	13.65 mm
Width [ w ]	31.56 mm
Height [ h ]	4.2 mm
Pitch	1.27 mm

### Dimensions for the application

Medium offset	± 0.7 mm in longitudinal and transverse direction
Angular tolerance	± 4 ° in longitudinal direction
	± 2 ° in transverse direction

### Packaging information

Type of packaging	Tray
Pieces per package	200
Denomination packing units	Pcs.

### General product information

Type of note	Note on application
	Note regarding documentation
Note	Please observe the application note on self-assembly in the download area.
	Current documents such as 3D models, products family drawings, data sheets or packaging drawings are available in the Download Center.

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## Technical data

### 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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### 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

## Classifications

### eCl@ss

eCl@ss 10.0.1	27440309
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440402
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 5.0	EC002638
ETIM 6.0	EC002638
ETIM 7.0	EC002638

## Approvals

### Approvals

#### Approvals

cULus Recognized / EAC

#### Ex Approvals

## IDC female connectors - FP 1,27/ 40-FWL - 1714908

### Approvals

#### 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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EAC		B.01687
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### Accessories

#### Additional products

SMD male connectors - FP 1,27/ 40-MV 3,25 - 1714930



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 40, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

SMD male connectors - FP 1,27/ 40-MV 1,75 - 1714941



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 40, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

SMD male connectors - FP 1,27/ 40-MH - 1714918



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 40, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

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