

## IDC female connectors - FP 1,27/ 20-FWL - 1714904

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IDC female connector, Nominal current at 20 °C: 1.2 A, Test voltage: 500 V AC, number of positions: 20, 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	360 pc
GTIN	 4 055626 402840
GTIN	4055626402840

### 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	20
Connection method	Displacement connection
Number of levels	2
Number of potentials	20

#### 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 ]	18.86 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	360
Denomination packing units	Pcs.

### General product information

Type of note	Note on application
	Note regarding documentation
	Notes on operation
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

### General product information

	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.
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### 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

## IDC female connectors - FP 1,27/ 20-FWL - 1714904

### Approvals

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Ex Approvals

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### Approval details

cULus Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> E118976-20170331

EAC



B.01687

### Accessories

#### Additional products

SMD male connectors - FP 1,27/ 20-MV 3,25 - 1714927



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

SMD male connectors - FP 1,27/ 20-MV 1,75 - 1714937



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

SMD male connectors - FP 1,27/ 20-MH - 1714915



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

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PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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