

IDC female connectors - FP 1,27/ 12-FWL - 1714902

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IDC female connector, Nominal current at 20 °C: 1.2 A, Test voltage: 500 V AC, number of positions: 12, pitch: 1.27 mm, connection method: IDC connection, 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	480 pc
GTIN	 4 055626 402826
GTIN	4055626402826

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	12
Connection method	Displacement connection
Number of levels	2
Number of potentials	12

Electrical data

Nominal current at 20 °C	1.2 A (50-pos.)
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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]	13.78 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	480
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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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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Cables / lines 1

Cable type	Flat-ribbon conductor PVC
Single wire, color	gray
Note	Coded wire: red
Cable structure	12x7x0.102 mm
Conductor structure signal line	7x 0.10 mm
AWG signal line	30
Conductor cross section	0.06 mm ²
Pitch	0.635 mm
Conductor material	Tin-plated Cu litz wires
Flame resistance	UL VW-1
UL AWM style	2678
Ambient temperature (mobile installation)	-10 °C 105 °C

Cables / lines 2

Cable type	Flat-ribbon conductor TPE-0
Single wire, color	gray
Note	Coded wire: blue
Cable structure	12x7x0.102 mm
Conductor structure signal line	7x 0.10 mm
AWG signal line	30
Conductor cross section	0.06 mm ²
Pitch	0.635 mm
Test voltage Core/Core	800 V
Conductor material	Tin-plated Cu litz wires
Flame resistance	in accordance with UL 1581 (horizontal flame test)
Ambient temperature (mobile installation)	-20 °C 105 °C

Cables / lines 3

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Technical data

Cables / lines 3

Cable type	Flat-ribbon conductor TPE-S
Single wire, color	gray
Note	Coded wire: green
Cable structure	12x7x0.102 mm
Conductor structure signal line	7x 0.10 mm
AWG signal line	30
Conductor cross section	0.06 mm ²
Pitch	0.635 mm
Conductor material	Tin-plated Cu litz wires
Flame resistance	IEC 60332-1-2
Ambient temperature (mobile installation)	-40 °C 125 °C

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

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Approvals

Ex Approvals

Approval details

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E118976-20170331
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EAC		B.01687
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Accessories

Additional products

SMD male connectors - FP 1,27/ 12-MV 3,25 - 1714924



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 12, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

SMD male connectors - FP 1,27/ 12-MV 1,75 - 1714934



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 12, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

SMD male connectors - FP 1,27/ 12-MH - 1714912



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 12, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

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