

FP 1,27/ 32-FWL - IDC female connectors



1714907

<https://www.phoenixcontact.com/us/products/1714907>

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IDC female connector, nominal current: 1.2 A, Test voltage: 500 V AC, number of positions: 32, pitch: 1.27 mm, number of rows: 2, color: black, contact surface: Gold, contact connection type: Socket, For preassembled 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	1714907
Packing unit	240 pc
Minimum order quantity	240 pc
Sales key	AA24
Product key	AAXMAA
GTIN	4055626402864
Weight per piece (including packing)	3.17 g
Weight per piece (excluding packing)	2.22 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
Product family	FR 1,27/...-FWL
Number of positions	32
Pitch	1.27 mm
Number of rows	2
Number of potentials	32

Data management status

Article revision	01
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Electrical properties

Nominal current I_N	1.2 A IEC 60512-5-2:2002-02 (at 20°C 50-pos.)
Contact resistance	10 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003
Rated voltage (III/3)	500 V
Rated voltage (II/2)	10 V
Rated surge voltage (II/2)	0.8 kV

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]	26.48 mm
Height [h]	4.2 mm
Length [l]	13.65 mm

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Application

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

Material specifications

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

Color (Housing)	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

Insulating material	LCP
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
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No. of cycles	500
Insertion strength per pos. approx.	0.5 N
Withdraw strength per pos. approx.	0.5 N

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 2000 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.5 mm (10 Hz ... 60.1 Hz)
Acceleration	20g (60.1 Hz ... 2000 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Durability test

Specification	IEC 60512-9-1:2010-03 (following)
Impulse withstand voltage at sea level	0.8 kV
Contact resistance R ₁	10 mΩ
Contact resistance R ₂	10 mΩ
Insertion/withdrawal cycles	500
Insulation resistance, neighboring positions	≥ 10 GΩ

Climatic test

Specification	IEC 60512-11-7:2003-05
Corrosive stress	Method 1, 10 days
Power-frequency withstand voltage	500 V AC

Shocks

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.)

Ambient conditions

Ambient temperature (operation)	-55 °C ... 125 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Type of packaging	Tray
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Classifications

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

ETIM

ETIM 8.0	EC002638
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

SAMPLE FP 1,27/32-FWL-11/P/0,1 - Preassembled IDC female connector

1112037

<https://www.phoenixcontact.com/us/products/1112037>



Assembled IDC female connector, Cable 1: cable length: 0.1 m, Cable type: Flat cable, Flat cable

FP 1,27/ 32-MV 3,25 - SMD male connectors

1714929

<https://www.phoenixcontact.com/us/products/1714929>



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 32, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

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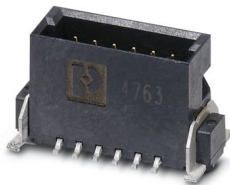
<https://www.phoenixcontact.com/us/products/1714907>



FP 1,27/ 32-MV 1,75 - SMD male connectors

1714940

<https://www.phoenixcontact.com/us/products/1714940>



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 32, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

FP 1,27/ 32-MH - SMD male connectors

1714917

<https://www.phoenixcontact.com/us/products/1714917>



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 32, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com