

1714909

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IDC female connector, nominal current: 1.2 A, Test voltage: 500 V AC, number of positions: 50, 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	1714909
Packing unit	1 pc
Minimum order quantity	160 pc
Sales key	AA24
Product key	AAXMAA
GTIN	4055626402888
Weight per piece (including packing)	4.73 g
Weight per piece (excluding packing)	4.51 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	50
Pitch	1.27 mm
Number of rows	2
Number of potentials	50

Electrical properties

Nominal current I _N	1.2 A IEC 60512-5-2:2002-02 (at 20°C 50-pos.)
Nominal voltage U _N	AC
Degree of pollution	3
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

Interloc

Interiock	
Locking type	Snap-in locking
Mounting flange	Self-locking flange

Dimensions

Pitch	1.27 mm
Width [w]	37.91 mm
Height [h]	4.2 mm
Length [I]	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		
Landa Cara and a Salamana	IIII.	

7 III Glodianoso ana Groopago aletanoso	
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 pas	ssed
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Ambient conditions

Ambient temperature (operation)

Ambient temperature (assembly)

Ambient temperature (storage/transport)
Relative humidity (storage/transport)

No. of cycles	500	
Insertion strength per pos. approx.	0.5 N	
Withdraw strength per pos. approx.	0.5 N	
ronmental and real-life conditions		
pration 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)	
Sweep speed	20g (60.1 Hz 2000 Hz)	
Test duration per axis	2.5 h	
arability 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	
matic test		
Specification	IEC 60512-11-7:2003-05	
Corrosive stress	Method 1, 10 days	
Power-frequency withstand voltage	500 V AC	
. one hequency mineral tellage	000 17.10	
ocks		
Specification	IEC 60068-2-27:2008-02	
Pulse shape	Semi-sinusoidal	
Acceleration	50g	
Shock duration	11 ms	

-55 °C ... 125 °C

-40 °C ... 70 °C

30 % ... 70 %

-5 °C ... 100 °C



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1714909



cULus Recognized

Approval ID: E118976-20170331



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460202	
ECLASS-12.0	27460202	
ECLASS-13.0	27460202	
ETIM		
ETIM 8.0	EC002638	
UNSPSC		

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Environmental product compliance

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



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Accessories

SAMPLE FP 1,27/50-FWL-11/P/0,1 - IDC female connectors

1026945

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Assembled IDC female connector, rated current: 1.2 A, Cable 1: cable length: 0. 1 m, Cable type:Flat-ribbon conductor, Flat-ribbon conductor

FP 1,27/50-MV 3,25 - SMD male connectors

1714931

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SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 50, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering



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FP 1,27/50-MV 1,75 - SMD male connectors

1714943

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SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 50, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

FP 1,27/50-MH - SMD male connectors

1714920

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SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 50, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

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