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IDC female connector, nominal current: 1.2 A, Test voltage: 500 V AC, number of positions: 80, 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	1714911
Packing unit	1 pc
Minimum order quantity	120 pc
Sales key	AA24
Product key	AAXMAA
GTIN	4055626402901
Weight per piece (including packing)	6.714 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	80
Pitch	1.27 mm
Number of rows	2
Number of potentials	80

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	
Interlock		
Interlock		
Interlock Locking type	Snap-in locking	

Dimensions

Pitch	1.27 mm
Width [w]	56.96 mm
Height [h]	4.2 mm
Length [I]	13.65 mm



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Center offset	± 0.7 mm in longitudinal and transverse direction
Angular tolerance	± 4 ° in longitudinal direction
	± 2 ° in transverse direction
terial specifications	
Material data - contact	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
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Note	60068-2-82/JEDEC JESD 201
Note Contact material	60068-2-82/JEDEC JESD 201 Cu alloy

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb
CTI according to IEC 60112	175
Flammability rating according to UL 94	VO

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	llib	
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 force	s
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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)		
Sweep speed	20g (60.1 Hz 2000 Hz)		
Test duration per axis	2.5 h		
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		



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1714911



CULus Recognized Approval ID: E118976-20170331 1714911

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Classifications

ECLASS

	202
ECLASS-12.0 274602	202
ECLASS-13.0 274602	202

ETIM

	ETIM 8.0	EC002638			
UN	UNSPSC				
	UNSPSC 21.0	39121400			

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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 1,27/80-FWL-11/P/0,1 - IDC female connectors

1095773 https://www.phoenixcontact.com/us/products/1095773



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/ 80-MV 3,25 - SMD male connectors

1714933 https://www.phoenixcontact.com/us/products/1714933



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 80, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

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FP 1,27/ 80-MV 1,75 - SMD male connectors

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SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 80, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

FP 1,27/ 80-MH - SMD male connectors

1714923 https://www.phoenixcontact.com/us/products/1714923



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 80, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

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