1714910

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IDC female connector, nominal current: 1.2 A, Test voltage: 500 V AC, number of positions: 68, 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	1714910
Packing unit	120 pc
Minimum order quantity	120 pc
Sales key	AA24
Product key	AAXMAA
GTIN	4055626402895
Weight per piece (including packing)	6.47 g
Weight per piece (excluding packing)	6.14 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	68
Pitch	1.27 mm
Number of rows	2
Number of potentials	68

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
nterlock	
nterlock Locking type	Snap-in locking

Dimensions

Pitch	1.27 mm
Width [w]	49.34 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		
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201	
	0 "	

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	VO

Connector

Connection 1		
	Insulating material	LCP
	CTI according to IEC 60112	175

Electrical tests

IEC 60512-5-2:2002-02		
50		
IEC 60512-3-1:2002-02		
≥ 10 GΩ		
Air clearances and creepage distances		
lllb		
500 V		
10 V		
0.8 kV		

Mechanical tests

Insertion and wi	thdrawal forces
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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)
Acceleration	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
ackaging specifications	

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Classifications

ECLASS

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

ETIM

	ETIM 9.0	EC002638
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 1,27/68-FWL-11/P/0,1 - IDC female connectors

1026944 https://www.phoenixcontact.com/us/products/1026944



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

FP 1,27/ 68-MV 3,25 - SMD male connectors

1714932 https://www.phoenixcontact.com/us/products/1714932



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 68, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

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FP 1,27/ 68-MV 1,75 - SMD male connectors

1714944

https://www.phoenixcontact.com/us/products/1714944



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 68, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

FP 1,27/ 68-MH - SMD male connectors

1714921 https://www.phoenixcontact.com/us/products/1714921



SMD male connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 68, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

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