

FR 1,27/ 26-FWL - IDC female connectors

1378548

<https://www.phoenixcontact.com/us/products/1378548>

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IDC female connector, nominal current: 1.4 A, test voltage: 500 V AC, number of positions: 26, pitch: 1.27 mm, color: black, contact surface: Au, contact connection type: Socket



Your advantages

- Time savings during the development process with customer-specific simulations for data integrity
- Design-in support during device development using MCAD/ECAD data and a free sample service
- Can be ordered pre-assembled: IDC female connectors with flat-ribbon cable enable immediate use in the device
- Gold-plated contacts ensure transfer quality remains stable over the long term

Commercial data

Item number	1378548
Packing unit	99 pc
Minimum order quantity	99 pc
Sales key	AA24
Product key	AAXMAA
GTIN	4063151747329
Weight per piece (including packing)	2.07 g
Weight per piece (excluding packing)	1.52 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Notes

Notes on operation	<p>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.</p> <p>The possible data transmission rate of an FR 1,27 cable assembly is influenced by various factors, such as the cable length. Up to 1 Gbps is possible.</p>
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Product properties

Product type	IDC female connector
Product family	FR 1,27/...-FWL
Number of positions	26
Pitch	1.27 mm
Number of rows	2

Electrical properties

Properties

Nominal current I_N	1.4 A IEC 60512-5-2:2002-02 (at 20°C 50-pos.)
Contact resistance	10 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003-05

Connection data

Conductor connection

Connection method	Displacement connection
Conductor cross-section AWG	30

Interlock

Locking type	Snap-in locking
Mounting type	Latching flange

Dimensions

Pitch	1.27 mm
Width [w]	22.86 mm
Height [h]	14.55 mm
Length [l]	5 mm

Application

Contact cover	0.9 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Angular tolerance	± 5 ° in longitudinal and transverse direction

Material specifications

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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 terminal point (top layer)	Tin (3 µm - 6 µm Sn)
Metal surface terminal point (middle layer)	Nickel (1.27 µm - 4 µm Ni)
Metal surface contact area (top layer)	Gold (min. 0.5 µm Au)
Metal surface contact area (middle layer)	Nickel (1.27 µm - 4 µm Ni)

Material data - housing

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb
CTI according to IEC 60112	150
Flammability rating according to UL 94	V0

Connector

Connection 1

Insulating material	LCP
CTI according to IEC 60112	150

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-2:2002-02
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Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 5 GΩ

Air clearances and creepage distances |

Insulating material group	IIIb
Minimum value for clearance and creepage distance	0.32 mm

Environmental and real-life conditions

Durability test

Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R ₁	10 mΩ
Contact resistance R ₂	12 mΩ
Insertion/withdrawal cycles	500
Insulation resistance, neighboring positions	≥ 5 GΩ

Vibration test

Specification	IEC 60068-2-6:2007-12
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Frequency	10 - 2000 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.5 mm (10 Hz ... 58 Hz)
Acceleration	200 m/s ² (58 Hz ... 2000 Hz)
Test duration per axis	1 h
Test directions	X-, Y- and Z-axis

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	490 m/s ²
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

Ambient conditions

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

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
Outer packaging type	Carton

Drawings

Diagram



Type: FR 1,27/...-FWL with FR 1,27/...-MV 3,25

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Approvals

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 cUL Recognized Approval ID: E118976-20230317				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only flexible conductors	29.9 V	1.4 A	- 30	-

 UL Recognized Approval ID: E118976-20230317				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only flexible conductors	29.9 V	2 A	- 30	-

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Classifications

ECLASS

ECLASS-13.0	27460202
ECLASS-15.0	27460202

ETIM

ETIM 10.0	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
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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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EF3.1 Climate Change

CO2e kg	0.304 kg CO2e
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