

1010254

https://www.phoenixcontact.com/us/products/1010254

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Assembled IDC female connector, rated current: 1.2 A, cable length: Free input (0.05 ... 0.95 m), Cable type:Flat cable, Flat cable. 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	1010254
Packing unit	50 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	AA24
Product key	AAXPAA
Customs tariff number	85444290
Country of origin	DE



1010254

https://www.phoenixcontact.com/us/products/1010254

Technical data

Product properties

Product type	Assembled IDC female connector
Product family	FR 1,27/Cabling
Number of positions	50
Pitch	1.27 mm
Number of rows	2

Electrical properties

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 60512-4-1:2003-05

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.

Dimensions

Pitch	1.27 mm
Application	
Center offset	± 0.7 mm in longitudinal and transverse direction
Angular tolerance	± 4 ° in longitudinal direction
	± 2 ° in transverse direction

Mechanical tests

Insertion and withdrawal forces

Result	Test passed
No. of cycles	500
Insertion strength per pos. approx.	0.5 N
Withdraw strength per pos. approx.	0.5 N

Electrical tests

Thermal test | Test group C



1010254

https://www.phoenixcontact.com/us/products/1010254

Specification	IEC 60512-5-2:2002-02
Tested number of positions	50
nsulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 10 GΩ
vironmental and real-life conditions	
/ibration 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
ihocks	
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 conditions Ambient temperature (operation)	-55 °C 125 °C
Ambient temperature (operation) Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Assistant to a social visit (social social)	50 /0 10 /0

-5 °C ... 100 °C

Connector

Ambient temperature (assembly)



1010254

https://www.phoenixcontact.com/us/products/1010254

Connection 1

Insulating material	LCP
CTI according to IEC 60112	175

Cable/line

Free input (0.05 0.95 m)
Coded wire: red
2678
no
Flat cable [PVC]
50 x 7 x 0.102 mm
7x 0.10 mm
30
0.06 mm ²
0.66 mm
gray
Tin-plated Cu litz wires
PVC
0.635 mm
≤ 354 Ω/m
≥ 20 MΩ*km
1500 V
UL VW-1
-10 °C 105 °C
-30 °C 105 °C



1010254

https://www.phoenixcontact.com/us/products/1010254

Classifications

F	C.	LASS
_	${}^{\sim}$	-

	ECLASS-13.0	27460202			
E	ГІМ				
	ETIM 8.0	EC002638			
UNSPSC					
	UNSPSC 21 0	39121400			



1010254

https://www.phoenixcontact.com/us/products/1010254

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%

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

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