

Order No.: 1010238

Type: FP 1,27/ 32-FWL-12/.../...

Assembled IDC female connector, Displacement connection



The figure shows a 12-pos. version with 12 contacts

1 Main features



- | | | | |
|---------------------|-------------------------|------------------------|----------|
| • No. of pos. | 32 | • Nominal current | 1.2 A |
| • Connection method | Displacement connection | • Test voltage | 500 V AC |
| • Color | black (9005) | • Connection direction | |
| • Pitch | 1.27 mm | • Type of packaging | |
| • Assembly | Assembly variant 12 | | |

2 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



Make sure you always use the latest documentation.
It can be downloaded at: phoenixcontact.net/product/1010238

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1010238 FP 1,27/ 32-FWL-12/.../...**4 General Technical Data****4.1 item properties**

Order No.	1010238
Type	FP 1,27/ 32-FWL-12/.../...
Plug-in system	FINEPITCH 1,27 mm
Product type	Assembled IDC female connector
Type of contact	Female connector
Range of articles	FP 1,27/...-FWL
Pitch	1.27 mm
Range of positions	12...80
Number of positions	32
Number of levels	2
Connection method	Displacement connection
Type of locking	Snap-in locking
	Self-locking flange
Connection direction of the conductor to the PCB	90 °

4.2 General information

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.

1010238 FP 1,27/ 32-FWL-12/.../...**5 Mechanical tests****5.1 Insertion and withdrawal force per contact**

Insertion and withdrawal force per contact	approx. 0.5 N
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5.2 Service life

Service life	500 Insertion/withdrawal cycles, Performance level 1
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5.3 Electrical data

Nominal current at 20 °C	1.2 A IEC 60512-5-2:2002-02 (50-pos.)
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Test voltage	500 V AC IEC 60512-4-1:2003
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6 Current carrying capacity/derating curves

6.1 Insulation resistance

Insulation resistance $\geq 10 \text{ G}\Omega$, (IEC 60512-3-1:2002-02)

6.2 forward resistance

Contact resistance $\leq 10 \text{ m}\Omega$, (IEC 60512-2-1:2002-02)

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7 Environmental and durability tests

7.1 Vibration test

Specification	IEC 60068-2-6:2007-12
Result	Test passed
Frequency	10 - 2000 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.5 mm (10 - 60.1 Hz)
Acceleration	20g (60.1 - 2000 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
Note	

7.2 Shock test

Specification	IEC 60068-2-27:2008-02
Result	Test passed
Pulse shape	Semi-sinusoidal
Peak acceleration	50g
Shock duration	11 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

1010238 FP 1,27/ 32-FWL-12/.../...**8 Cable, properties**

Flat-ribbon conductor [PVC]	
Cable structure	32 x 7 x 0.102 mm
Variable cable length	Free input (0.05 ... 0.95 m)
Pitch	0.635 mm
Cable cross section	0.06 mm ²
Conductor cross section AWG	30
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Note	Coded wire: red
Test voltage Core/Core	1500 V
Flame resistance	UL VW-1
UL AWM Style	2678

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9 Approvals / Certificates

cULus Recognized 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
	-	-	-	-
EAC 				

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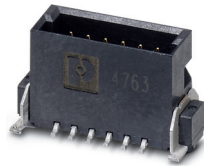
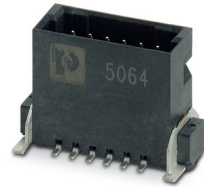
10 Commercial Data

Order No.	1010238
Type	FP 1,27/ 32-FWL-12/.../...
Pieces per package	100
Net weight	0 g
GTIN	
	Information that applies locally, see link on page 1
Country of origin	Information that applies locally, see link on page 1

11 matching counterparts

Order No.	Type
1714929	FP 1,27/ 32-MV 3,25
1714940	FP 1,27/ 32-MV 1,75
1714917	FP 1,27/ 32-MH

12 Combination tests

**FP 1,27/...-FWL****FP 1,27/...-MH****FP 1,27/...-MV
1,75****FP 1,27/...-MV
3,25**

Mechanical tests				
Insertion/withdrawal force per position	approx. 0.5 N / 0.5 N	approx. 0.5 N / 0.5 N	approx. 0.5 N / 0.5 N	
Durability tests				
Contact resistance R_1	10 mΩ	10 mΩ	10 mΩ	
Insertion/withdrawal cycles	500	500	500	
Contact resistance R_2	10 mΩ	10 mΩ	10 mΩ	
Test voltage	500 V AC	500 V AC	500 V AC	
Thermal tests				
Tested number of positions	50	50	50	
Test current	1.4 A	1.4 A	1.4 A	