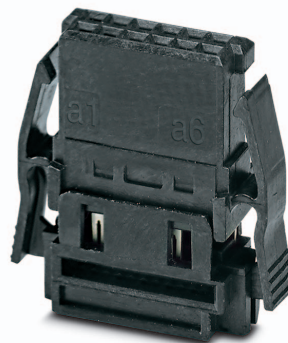


Order No.: 1714903

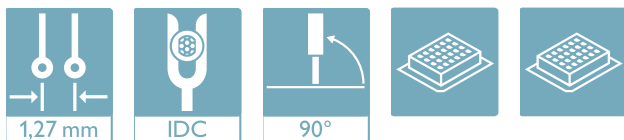
Type: FP 1,27/ 16-FWL

IDC female connector, Displacement connection



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

1 Main features



- | | | | |
|---------------------|-------------------------|------------------------|----------|
| • No. of pos. | 16 | • 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 | Tray |

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/1714903

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1714903 FP 1,27/ 16-FWL

4 3D model in PDF can be activated (Acrobat Reader only)



1714903 FP 1,27/ 16-FWL**5 General Technical Data****5.1 item properties**

Order No.	1714903
Type	FP 1,27/ 16-FWL
Plug-in system	Fine Pitch 1,27 mm
Product type	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	16
Number of levels	2
Number of potentials	16
Connection method	Displacement connection
Type of locking	Snap-in locking
	Self-locking flange
Connection direction of the conductor to the PCB	90 °

5.2 Connection capacity

Nominal cross section	0.06 mm ²
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5.3 Connection capacity AWG

Conductor cross section AWG	30
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5.4 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.

6 Series drawing

[illegible]

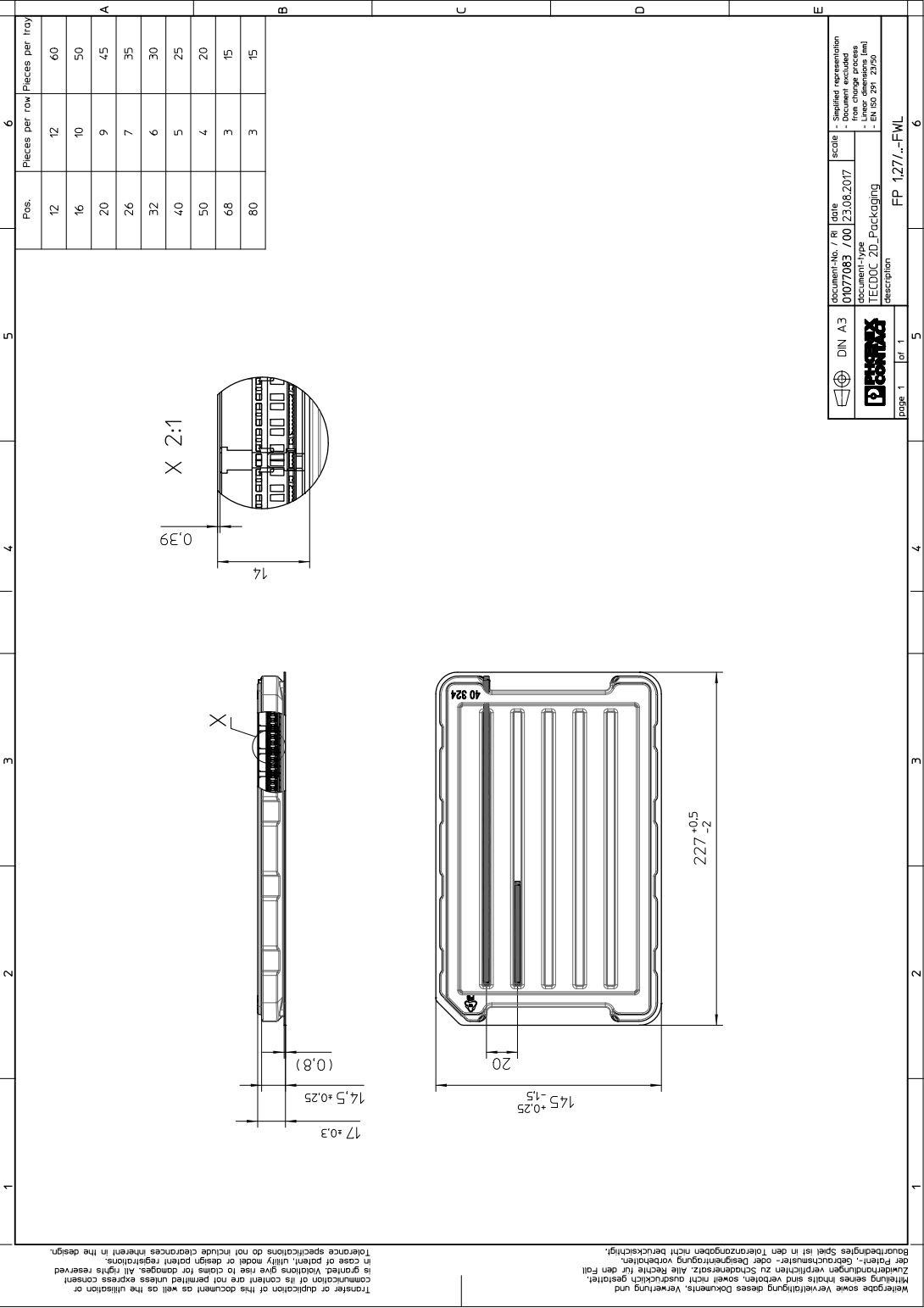
1714903 FP 1,27/ 16-FWL

7 Application

8 Packaging information

Type of packaging	Tray
Pieces per package	400

9 Blister drawing



1714903 FP 1,27/ 16-FWL**10 Mechanical tests****10.1 Insertion and withdrawal force per contact**

Insertion and withdrawal force per contact

approx. 0.5 N

10.2 Service life

Service life

500 Insertion/withdrawal cycles, Performance level 1

1714903 FP 1,27/ 16-FWL**11 Electrical tests****11.1 Electrical data**

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

1714903 FP 1,27/ 16-FWL**12 Current carrying capacity/derating curves****12.1 Insulation resistance**

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

12.2 forward resistance

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

1714903 FP 1,27/ 16-FWL**13 Environmental and durability tests****13.1 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	

Shock	
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.)

14 ApprovalscULus Recognized 

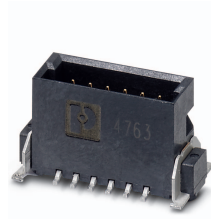
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1714903 FP 1,27/ 16-FWL**15 Commercial Data**

Order No.	1714903
Type	FP 1,27/ 16-FWL
Pieces per package	400
Net weight	1.757 g
GTIN	4055626402833
	Information that applies locally, see link on page 1
Country of origin	Information that applies locally, see link on page 1

16 matching counterparts

Order No.	Type
1714925	FP 1,27/ 16-MV 3,25
1714936	FP 1,27/ 16-MV 1,75
1714914	FP 1,27/ 16-MH

1714903 FP 1,27/ 16-FWL**17 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	