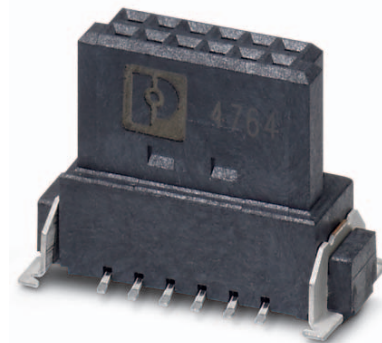


Data sheet

Order No.: 1714882

Type: FP 1,27/ 26-FV 9,05

SMD female connector, Reflow soldering



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

1 Main features



• No. of pos.	26	• Nominal current	1.4 A
• Test voltage	500 V AC	• Mounting type	SMD soldering
• Color	black (9005)	• Connection direction	90 °
• Pitch	1.27 mm	• Type of packaging	44 mm wide tape

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
- ✓ Stacked, coplanar or orthogonal PCB connections enable maximum flexibility in the device
- ✓ Male and female connectors of different height can be combined – for individual PCB spacing of 8 mm ... 13.8 mm



Make sure you always use the latest documentation.

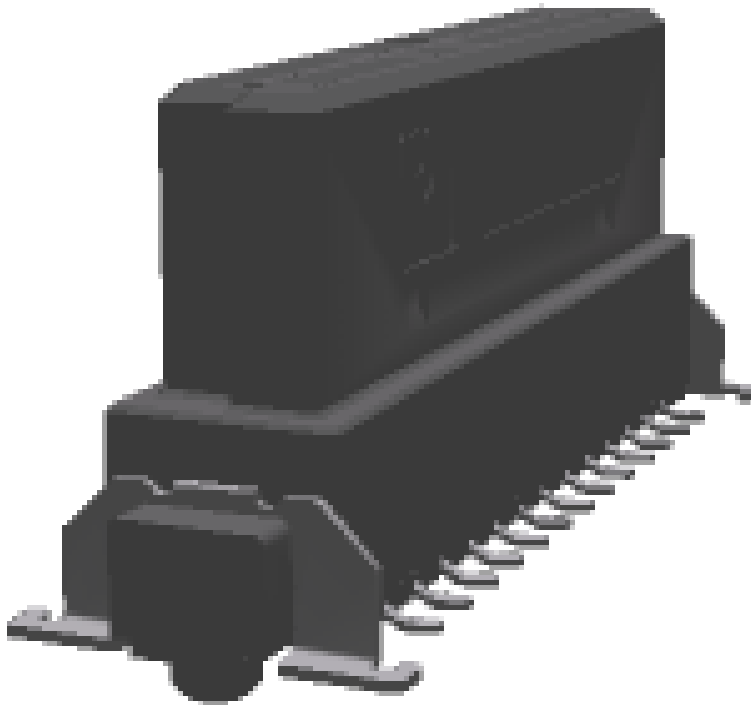
It can be downloaded at: phoenixcontact.net/product/1714882

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1714882 FP 1,27/ 26-FV 9,05

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



1714882 FP 1,27/ 26-FV 9,05**5 General Technical Data****5.1 item properties**

Order No.	1714882
Type	FP 1,27/ 26-FV 9,05
Plug-in system	Fine Pitch 1,27 mm
Product type	SMD female connector
Type of contact	Female connector
Range of articles	FP 1,27/...-FV 9,05
Pitch	1.27 mm
Range of positions	12...80
Number of positions	26
Number of levels	2
Number of potentials	26
Mounting type	SMD soldering
Connection direction of the connector to the PCB	90 °
Pin layout	Linear pad geometry

5.2 Material data

Material of metal parts	
Note	WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface contact area	Nickel (Ni), Palladium nickel (PdNi) , Gold (Au)
Surface characteristics	Selective coating
Insulating material data	
Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0
Color	black (9005)

1714882 FP 1,27/ 26-FV 9,05**6 Dimensions****6.1 Dimensions for the product**

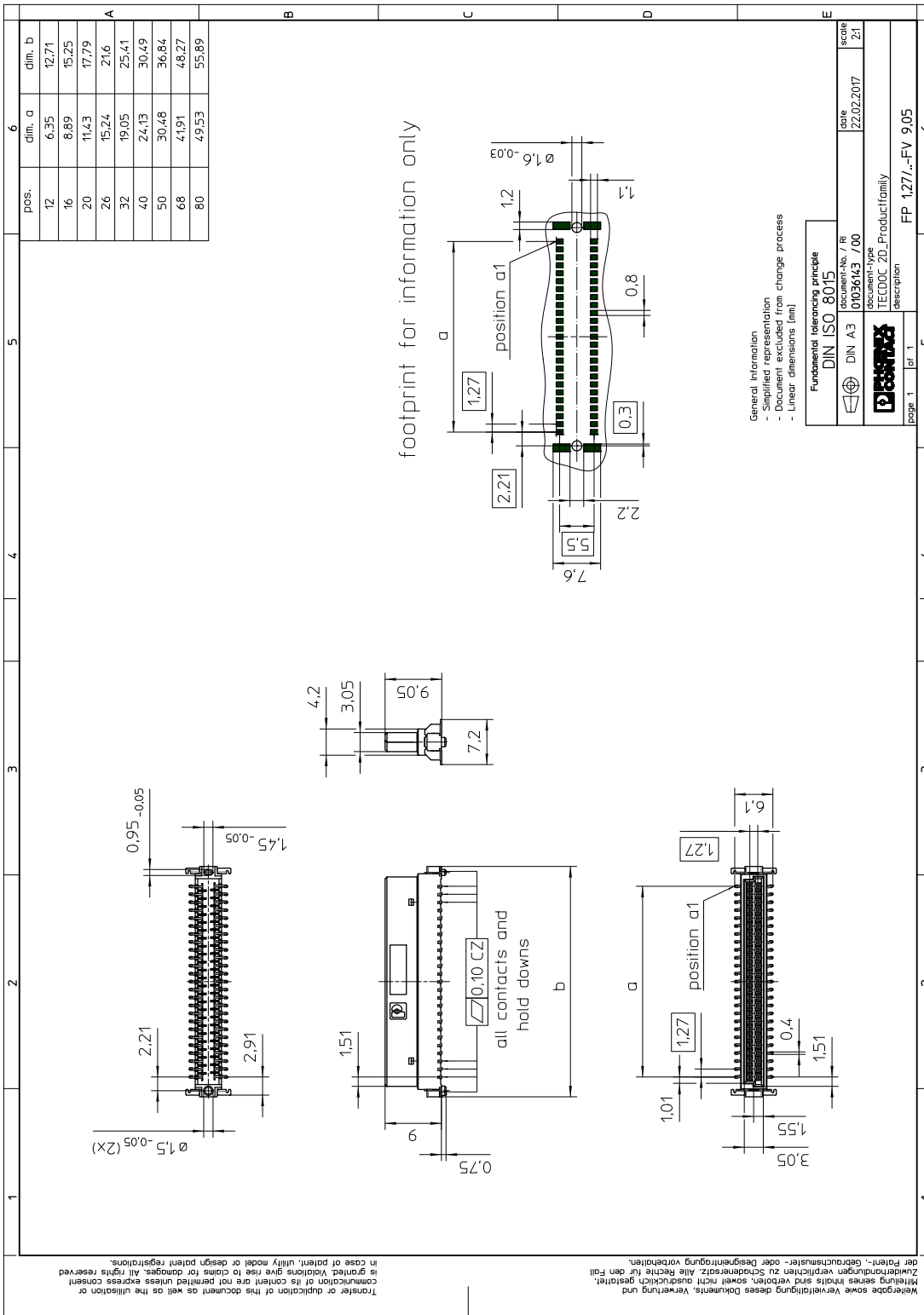
Length	7.2 mm
Width	21.6 mm
Total height	9.75 mm
Height	9.05 mm
Base height	9.05 mm
Positioning pin geometry	ø 1.5-0.05 mm, Length of positioning pin: 0.75 mm ø 1.5-0.05 mm, Length of positioning pin: 0.75 mm
Positioning pin geometry	ø 1.5-0.05 mm, Length of positioning pin: 0.75 mm ø 1.5-0.05 mm, Length of positioning pin: 0.75 mm
Coplanarity	≤ 0.1 mm

6.2 Dimensions for the application

Contact cover	0.9 mm
Overlap length	1.5 mm
Medium offset	± 0.7 mm in longitudinal and transverse direction
Angular tolerance	± 4 ° in longitudinal direction
Angular tolerance	± 2 ° in transverse direction
Stacking height	10.8 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 1,27/...-MV 1,75)
Stacking height	12.3 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 1,27/...-MV 3,25)

1714882 FP 1,27/ 26-FV 9,05

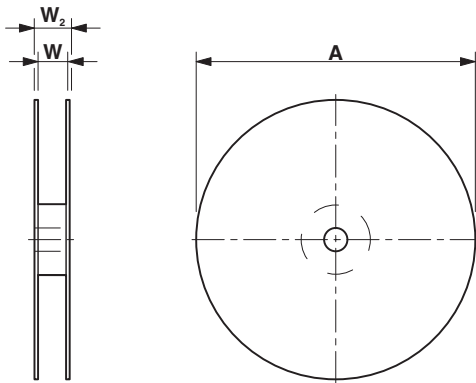
7 Series drawing



1714882 FP 1,27/ 26-FV 9,05

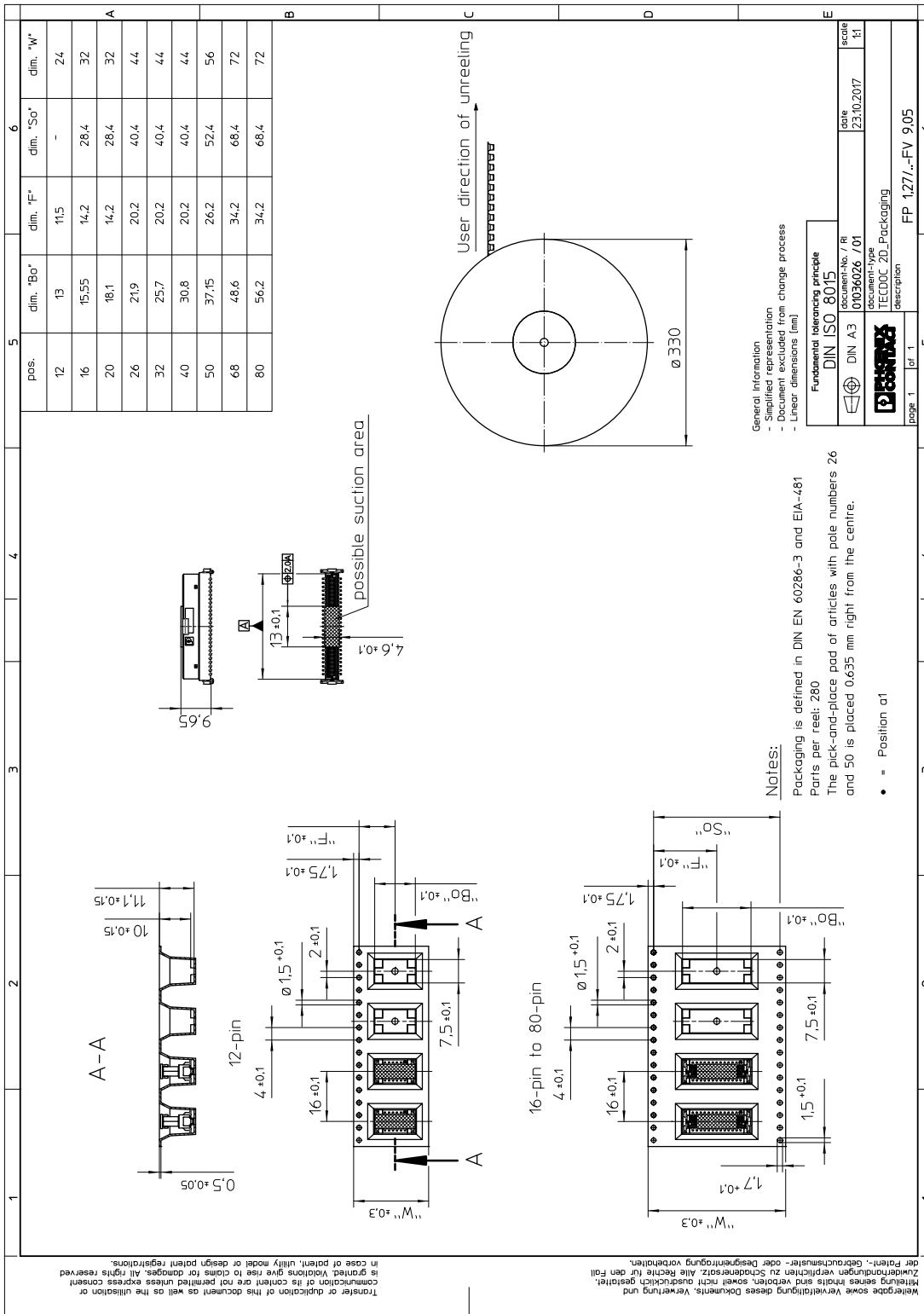
8 Packaging information

Type of packaging	44 mm wide tape
Note on packaging	Tape-on-reel packaging in accordance with standard DIN EN 60286-3 and EIA-481
Pieces per package	280
Outer packaging type	Transparent-Bag
[W] tape width	44 mm
[A] coil diameter	330 mm
[W2] coil overall dimension	50.4 mm
Number of products per coil	280



1714882 FP 1,27/ 26-FV 9,05

9 Blister drawing



10 Application

10.1 Temperature limit values

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

11 General tests

11.1 Specification

Brief description

Board-to-board connectors

1714882 FP 1,27/ 26-FV 9,05

12 Mechanical tests

12.1 Insertion and withdrawal force per contact

Insertion and withdrawal force per contact approx. 0.5 N

12.2 Service life

Specification IEC 60512-9-1:2010-03 (following)

Service life 500 Insertion/withdrawal cycles, Performance level 1

1714882 FP 1,27/ 26-FV 9,05**13 Electrical tests****13.1 Electrical data**

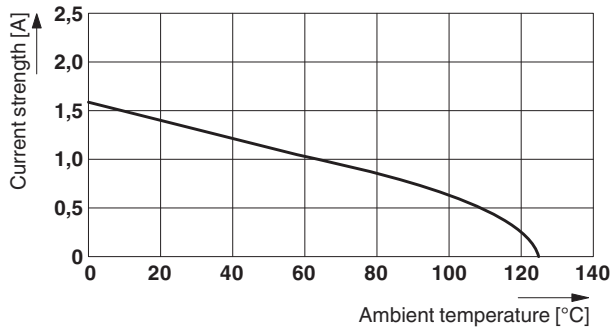
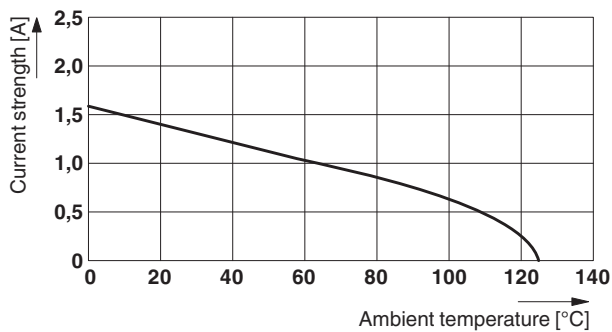
Nominal current at 20 °C	1.4 A IEC 60512-5-2:2002-02 (50-pos.)
Test voltage	500 V AC IEC 60512-4-1:2003

13.2 Air and creepage distances

Minimum value for clearance and creepage distance	0.4 mm
---	--------

1714882 FP 1,27/ 26-FV 9,05**14 Current carrying capacity/derating curves**

Specification	IEC 60512-5-2:2002-02
Note	Representation based on IEC 60512-5-2:2002-02
Reduction factor	0.8
Number of positions	See diagram

Type: FP 1,27/...-FV 9,05 with FP 1,27/...-MV 1,75**Type: FP 1,27/...-FV 9,05 with FP 1,27/...-MV 3,25****14.1 Insulation resistance**

Insulation resistance	≥ 10 GΩ, (IEC 60512-3-1:2002-02)
-----------------------	----------------------------------

14.2 forward resistance

Contact resistance	≤25 mΩ, (IEC 60512-2-1:2002-02)
--------------------	---------------------------------

14.3 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)

1714882 FP 1,27/ 26-FV 9,05

Test duration per axis 2.5 h

Test directions X-, Y- and Z-axis

Note

15 Approvals

cULus Recognized 

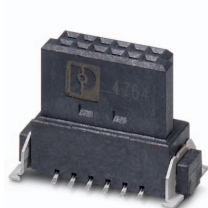


1714882 FP 1,27/ 26-FV 9,05**16 Commercial Data**

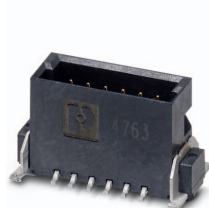
Order No.	1714882
Type	FP 1,27/ 26-FV 9,05
Pieces per package	280
Net weight	2.788 g
GTIN	4055626400457
	Information that applies locally, see link on page 1
Country of origin	Information that applies locally, see link on page 1

1714882 FP 1,27/ 26-FV 9,05

17 Combination tests



FP 1,27/...-FV 9,05

FP 1,27/...-MV
1,75FP 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		
Durability tests				
Contact resistance R ₁	25 mΩ	25 mΩ		
Insertion/withdrawal cycles	500	500		
Contact resistance R ₂	25 mΩ	25 mΩ		
Test voltage	500 V AC	500 V AC		
Thermal tests				
Tested number of positions	50	50		
Test current	1.4 A	1.4 A		