1374029

https://www.phoenixcontact.com/us/products/1374029

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.

SMD female connector, nominal current: 2.2 A, Test voltage: 840 V AC, number of positions: 20, pitch: 1.27 mm, color: black, contact surface: Au, contact connection type: Socket, mounting: SMD soldering



Your advantages

- The first high-speed data transmission at up to 28 Gbps using the established market standard, opens up new design possibilities.
- Robust 6-pos. to 100-pos. board-to-board and wire-to-board connectors ensure greater flexibility with regard to component options.
- · Time savings during the development process with customer-specific simulations for data integrity
- · Gold-plated contact points enable long-term stable signal transmission and currents of up to 2.3 A.
- · Design-in support during device development using MCAD/ECAD data and a free sample service

Commercial data

Item number	1374029
Packing unit	280 pc
Minimum order quantity	280 pc
Sales key	AA24
Product key	AAXAAB
GTIN	4063151732677
Weight per piece (including packing)	1.932 g
Weight per piece (excluding packing)	1.932 g
Customs tariff number	85366930
Country of origin	CN

PHŒN

1374029

https://www.phoenixcontact.com/us/products/1374029

Technical data

Product properties

	Product type	SMD female connector
	Product family	FR 1,27/FV 6,25
	Number of positions	20
	Pitch	1.27 mm
	Number of rows	2
	Pin layout	Linear pad geometry
l	Data management status	
	Article revision	01
_, _,		
Ele	ectrical properties	
	Nominal current I _N	2.2 A IEC 60512-5-2:2002-02 (at 20°C 100-pos.)
	Contact resistance	10 mΩ
	Test voltage	840 V AC IEC 60512-4-1:2003
Мо	ounting	
	Mounting type	SMD soldering
	Pin layout	Linear pad geometry
I	Processing notes	
	Process	Reflow soldering
	Moisture Sensitive Level	MSL 1
	Classification temperature T _c	260 °C

Material specifications

Material data - contact

WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Cu alloy
Selective coating
Gold (Au)
Nickel (Ni)
Tin (Sn)
Nickel (Ni)
black (9005)
LCP
IIIb
150
V0

PHŒNIX CONTACT

1374029

https://www.phoenixcontact.com/us/products/1374029



Notes

 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

Dimensional drawing	th P
Pitch	1.27 mm
Width [w]	18.3 mm
Height [h]	7 mm
Length [I]	7.2 mm
Installed height	6.25 mm
Application	
Contact cover	0.9 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Stack height	8 mm Tolerance: +1,5 mm (in combination with Range of articles:FR 1,27/MV 1,75)
	9.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FR 1,27/MV 3,25)
Wipe length	1.5 mm
Angular tolerance	± 5 ° in longitudinal and transverse direction
PCB design	
Pad geometry	0.8 x 1.1 mm
Electrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-2:2002-02
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 5 GΩ

Air clearances and creepage distances |

I	Insulating material group	IIIb
ſ	Minimum value for clearance and creepage distance	0.43 mm

Environmental and real-life conditions

Vibration test



1374029

https://www.phoenixcontact.com/us/products/1374029

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 2000 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.5 mm (10 Hz 58 Hz)
Acceleration	200 m/s² (58 Hz 2000 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
Ourability test Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R ₁	10 mΩ
Contact resistance R ₂	15 mΩ
Insertion/withdrawal cycles	500
Insulation resistance, neighboring positions	≥ 5 GΩ
Shocks	
Specification	IEC 60068-2-27:2008-02

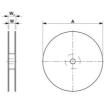
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	490 m/s²
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

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

Dimensional drawing



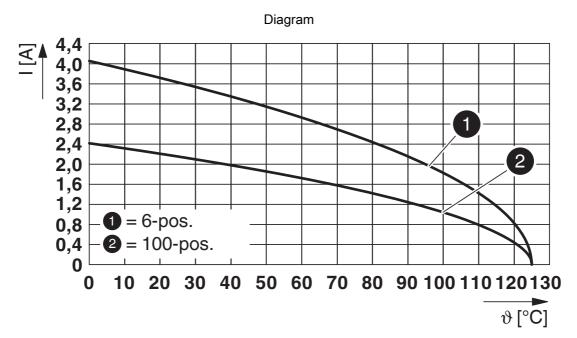
Type of packaging	32 mm wide tape
[W] tape width	32 mm
[W2] coil overall dimension	38.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



1374029

https://www.phoenixcontact.com/us/products/1374029

Drawings



Type: FR 1,27/...-FV 6,25 with FR 1,27/...-MV 1,75



1374029

https://www.phoenixcontact.com/us/products/1374029

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1374029

Nominal volta	age U _N Nominal current	t I _N Cross section AWG	Cross section mm ²
29.9 V	1.4 A	-	-

Recognized			
Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
29.9 V	2 A	-	-

cULus Recognized

1374029

https://www.phoenixcontact.com/us/products/1374029



Classifications

ECLASS

ECLASS-11.0	27460201
ECLASS-12.0	27460201
ECLASS-13.0	27460201

ETIM

ETIM 9.0	EC002637
----------	----------

1374029

https://www.phoenixcontact.com/us/products/1374029

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 2024 © - 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