

1331962

https://www.phoenixcontact.com/pc/products/1331962

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: 0.5 A, test voltage: 500 V AC, number of positions: 20, pitch: 0.635 mm, color: black, contact surface: Au, contact connection type: Socket, mounting: SMD soldering



Your advantages

- · Design-in support during device development using MCAD/ECAD data and a free sample service
- · Cost and space savings with the comprehensive portfolio available in various stack heights
- · Easy mating with integrated keyways and tolerance compensation for error-free production
- · Time savings during the development process with customer-specific simulations for data integrity
- · High-speed data transmission up to 30 Gbps for various possible applications

Commercial data

Item number	1331962
Packing unit	750 pc
Minimum order quantity	750 pc
Product key	AAWACA
GTIN	4063151628123
Weight per piece (including packing)	1.075 g
Weight per piece (excluding packing)	1 g
Customs tariff number	85366930
Country of origin	CN



1331962

https://www.phoenixcontact.com/pc/products/1331962

Technical data

Product properties

Product type	SMD female connector
Product family	FS 0,635/FV-R- 4,0
Number of positions	20
Pitch	0.635 mm
Number of rows	2
Pin layout	Linear pad geometry

Electrical properties

Nominal current I _N	0.5 A IEC 60512-5-2:2002-02 (40-pos. / 60-pos.)
Contact resistance	40 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003-05
Rated voltage (I/1)	125 V
Rated surge voltage (I/1)	0.8 kV

Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry
December water	

Processing notes

Process	Reflow soldering
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C
Solder cycles in the reflow	3

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Selective coating
Metal surface contact area (top layer)	Gold (Au)
Metal surface contact area (middle layer)	Nickel (Ni)
Metal surface soldering area (top layer)	Tin (Sn)
Metal surface soldering area (middle layer)	Nickel (Ni)

Material data - housing

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb
CTI according to IEC 60112	150
Flammability rating according to UL 94	V0



1331962

https://www.phoenixcontact.com/pc/products/1331962

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	h P
Pitch	0.635 mm
Width [w]	14.22 mm
Height [h]	4.6 mm
Length [I]	6.4 mm
Installed height	4 mm

Application

Contact cover	0.6 mm
Center offset	± 0.5 mm in longitudinal and transverse direction
Stack height	6 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/MV-R- 5,0)
	9 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/MV-R- 8,0)
	10 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/MV-R- 9,0)
Wipe length	0.6 mm
Angular tolerance	± 10 ° in longitudinal and transverse direction (when plugging in)
	± 2 ° in longitudinal and transverse direction (when plugged in)

PCB design

Pad geometry	0.35 x 2.5 mm
Hole diameter	0.9 mm

Electrical tests

Thermal test | Test group C

1 3 1	
Specification	IEC 60512-5-2:2002-02
Tested number of positions	60
Insulation resistance	
Specification	IEC 60512-3-1:2002-02

≥ 5 GΩ

Air clearances and creepage distances |

Insulation resistance, neighboring positions

olosisinoso sina olospago silvanoso į		
Specification	IEC 60664-1:2007-04	



1331962

https://www.phoenixcontact.com/pc/products/1331962

Insulating material group	IIIb
Minimum value for clearance and creepage distance	0.19 mm
ironmental and real-life conditions	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 55 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.52 mm
Acceleration	181 m/s²
Test duration per axis	2 h
Test directions	X-, Y- and Z-axis
Durability test	
Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R ₁	40 mΩ
Contact resistance R ₂	40 mΩ
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	≥ 5 GΩ
Dimatic test	
Specification	IEC 60068-2-60:2015-06
Corrosive stress	Method 4, 10 days
Thermal stress	125 °C/168 h
Power-frequency withstand voltage	500 V
mbient 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
kaging specifications	
Dimensional drawing	
	-W, -

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



1331962

https://www.phoenixcontact.com/pc/products/1331962

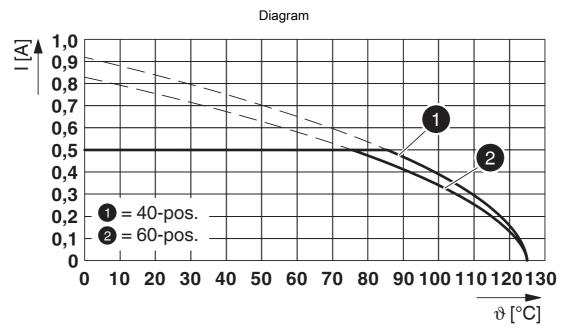
Specification DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07
--



1331962

https://www.phoenixcontact.com/pc/products/1331962

Drawings



Type: FS 0,635/...-MV-R- 5,0 with FS 0,635/...-FV-R- 4,0



1331962

https://www.phoenixcontact.com/pc/products/1331962

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1331962

CULus Recognized Approval ID: E118976-20230512					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		29.9 V	0.5 A	-	-



1331962

https://www.phoenixcontact.com/pc/products/1331962

Classifications

UNSPSC 21.0

ECLASS

27460201		
27460201		
27460201		
ETIM		
EC002637		

39121400



1331962

https://www.phoenixcontact.com/pc/products/1331962

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 GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com