

https://www.phoenixcontact.com/us/products/1334090

PHŒNIX CONTACT

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: 40, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Socket, mounting: SMD soldering



Your advantages

- · Design-in support during device development through M-CAD/E-CAD 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	1334090			
Packing unit	350 pc			
Minimum order quantity	350 pc			
Sales key	AA23			
Product key	AAWACB			
GTIN	4063151633004			
Weight per piece (including packing)	2.32 g			
Weight per piece (excluding packing)	2.404 g			
Customs tariff number	85366930			
Country of origin	CN			

1334090

https://www.phoenixcontact.com/us/products/1334090

Technical data

Product properties

Product type	SMD female connector	
Product family	FS 0,635/FV-R-10,0	
Number of positions	40	
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.)			
Degree of pollution	3		
Contact resistance	70 mΩ		
Test voltage 500 V AC IEC 60512-4-1:2003			
Rated voltage (I/1)	125 V		
Rated surge voltage (I/1)	0.8 kV		

Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry

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)		
<i>I</i> laterial data - housing			
Color (Housing) black (9005)			
Insulating material LCP			
Insulating material group	IIIb		
CTI according to IEC 60112	160		

PHŒNIX CONTACT

1334090

https://www.phoenixcontact.com/us/products/1334090



Flammability rating according to UL 94 V0 Notes The permissible voltage during operation depends on the Notes on operation 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 Pitch 0.635 mm Width [w] 20.57 mm Height [h] 10.6 mm Length [I] 6.4 mm Installed height 10 mm Application Contact cover 0.6 mm Center offset ± 0.5 mm in longitudinal and transverse direction Stack height 12 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/..-MV-R- 5,0) 15 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/..-MV-R- 8,0) 16 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				
Specification IEC 60512-5-2:2002-02				
Tested number of positions 60				
Insulation resistance				
Specification	IEC 60512-3-1:2002-02			
Insulation resistance, neighboring positions	≥ 5 GΩ			
insulation resistance, neighboring positions	2 3 GΩ			

Air clearances and creepage distances |



https://www.phoenixcontact.com/us/products/1334090

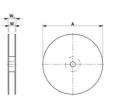
Specification	IEC 60664-1:2007-04	
Insulating material group	IIIb	
Minimum value for clearance and creepage distance	0.19 mm	

Environmental and real-life conditions

Specification	IEC 60068-2-6:2007-12	
•	10 - 55 - 10 Hz	
Frequency		
Sweep speed	1 octave/min	
Amplitude	1.52 mm	
Acceleration	181 m/s²	
Test duration per axis	2 h	
urability test		
Specification	IEC 60512-9-1:2010-03 (following)	
Contact resistance R ₁	70 mΩ	
Contact resistance R ₂	70 mΩ	
Insertion/withdrawal cycles	50	
Insulation resistance, neighboring positions	≥ 5 GΩ	
limatic 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 %	
	-5 °C 100 °C	

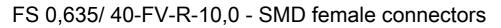
Packaging specifications

Dimensional drawing



Type of packaging	44 mm wide tape		
[W] tape width	44 mm		
[W2] coil overall dimension	50.4 mm		
[A] coil diameter	330 mm		
Outer packaging type	Transparent-Bag		
ESD level	(D) electrostatically conductive		

PHŒN



1334090

https://www.phoenixcontact.com/us/products/1334090



Specification

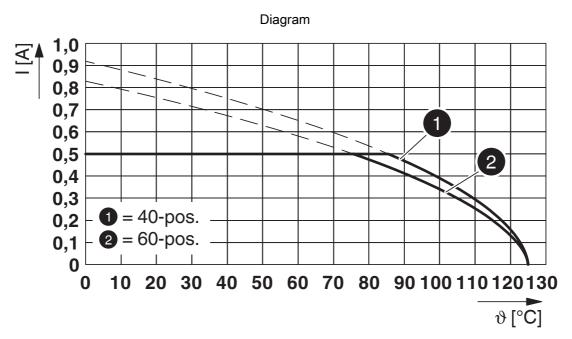
DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



1334090

https://www.phoenixcontact.com/us/products/1334090

Drawings



Type: FS 0,635/...-MV-R- 8,0 with FS 0,635/...-FV-R-10,0

Diagram 1,0 0,9 0,8 0,7 1 0,6 0,5 2 0,4 0,3 **1** = 40-pos. 0,2 **2** = 60-pos. 0,1 0 10 20 30 40 50 60 70 80 90 100 110 120 130 0 ϑ [°C]

Type: FS 0,635/...-MV-R- 9,0 with FS 0,635/...-FV-R-10,0



https://www.phoenixcontact.com/us/products/1334090

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1334090

c 911 us	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	-	-	



1334090

https://www.phoenixcontact.com/us/products/1334090



Classifications

ECLASS

ECLASS-11.0 274	7460201
ECLASS-12.0 274	7460201
ECLASS-13.0 274	7460201

ETIM

	ETIM 9.0	EC002637		
UNSPSC				
	UNSPSC 21.0	39121400		

1334090

https://www.phoenixcontact.com/us/products/1334090

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%		



1334090

https://www.phoenixcontact.com/us/products/1334090



Mandatory accessories

FS 0,635/ 40-MV-R- 5,0 - SMD male connectors

1332121 https://www.phoenixcontact.com/us/products/1332121

SMD male connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 40, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering



FS 0,635/ 40-MV-R- 8,0 - SMD male connectors

1332125

https://www.phoenixcontact.com/us/products/1332125

SMD male connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 40, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering



1334090

https://www.phoenixcontact.com/us/products/1334090

FS 0,635/ 40-MV-R- 9,0 - SMD male connectors

1332196

https://www.phoenixcontact.com/us/products/1332196

SMD male connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 40, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering



Accessories

FS 0,635/ 40-MV-R- 8,0 - SMD male connectors

1332125

https://www.phoenixcontact.com/us/products/1332125

SMD male connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 40, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering



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 HŒN