

1053615

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shielded SMD male connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.8 mm, color: black, contact surface: Au, contact connection type: Pin, mounting: SMD soldering

Your advantages

- · Gold-plated contacts ensure transfer quality remains stable over the long term
- · Reliable mechanical and electrical connections, thanks to the double-sided ScaleX contact system
- · Robustness: ScaleX technology for high tolerance compensation and protection of contacts
- · Flexible device design: various numbers of positions, designs, and stack heights with high wipe lengths

Commercial data

Item number	1053615
Packing unit	400 pc
Minimum order quantity	400 pc
Product key	AAWJDA
GTIN	4055626686615
Weight per piece (including packing)	2.51 g
Weight per piece (excluding packing)	2.42 g
Customs tariff number	85366930
Country of origin	CN



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Technical data

Product properties

Product type	shielded SMD male connector	
Product family	FP 0,8/MH-SH	
Number of positions	20	
Pitch	0.8 mm	
Number of rows	2	
Number of potentials	20	
Pin layout	Linear pad geometry	
Electrical characteristic	shielded	
Data management status		
Article revision	01	

Electrical properties

Nominal current I _N	1.7 A IEC 60512-5-2:2002-02 (at 20°C 80-pos.)
Contact resistance	25 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003
Electrical characteristic	shielded

Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry
Processing notes	
Process	Reflow soldering

Process	Reflow soldering
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C

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

Material data - nousing	
Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb



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Insulating material group

CTI according to IEC 60112	150
Flammability rating according to UL 94	V0
lotes	
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.
Details for soldering processes	The items are suitable for assembly on both sides and for overhead soldering.
Dimensions	
Dimensional drawing	h h
Pitch	0.8 mm
Width [w]	12.4 mm
Height [h]	7.05 mm
Length [I]	8.95 mm
Installed height	6.45 mm
Application	
Contact cover	0.8 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Wipe length	1.5 mm
Angular tolerance	\pm 5 $^{\circ}$ in longitudinal and transverse direction (when plugging in)
	\pm 5 $^{\circ}$ in longitudinal and transverse direction (when plugged in)
Axial offset in X direction (longitudinal)	± 0.3 mm (Tolerance compensation when plugged in)
Axial offset in Y direction (transversal)	± 0.3 mm (Tolerance compensation when plugged in)
PCB design	
Pad geometry	0.5 x 1 mm
Electrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-2:2002-02
Tested number of positions	80
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 5 GΩ
Air elegrange and granges distances	
Air clearances and creepage distances	ШЬ

IIIb



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Outer packaging type

ESD level

Specification

Minimum value for clearance and creepage distance	0.25 mm
vironmental and real-life conditions	
/ibration test	
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
urability test	
Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R ₁	25 mΩ
Contact resistance R ₂	25 mΩ
Insertion/withdrawal cycles	500
hocks	
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.)
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	
Dimensional drawing	- W A
Type of packaging	56 mm wide tape
[W] tape width	56 mm
[W2] coil overall dimension	62.4 mm
[A] coil diameter	330 mm

Transparent-Bag

(D) electrostatically conductive

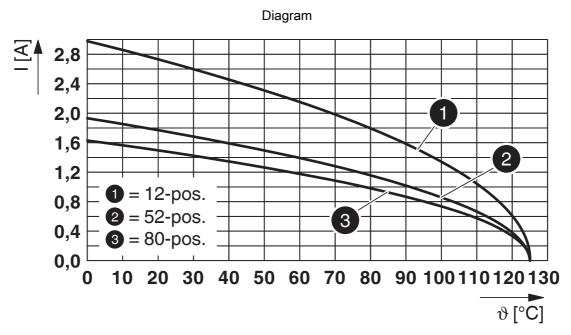
DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



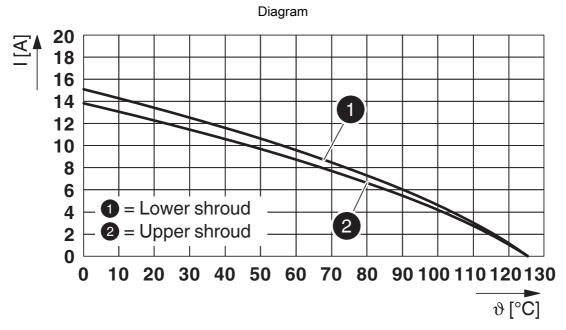
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Drawings



Type: FP 0,8/...-MH-SH with FP 0,8/...-FH-SH



Type: FP 0,8/...-MH-SH with FP 0,8/...-FH-SH



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1053615



cULus Recognized

Approval ID: E118976-20190703



EAC

Approval ID: B.00511/19



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Classifications

ECLASS

	ECLASS-11.0	27460201			
	ECLASS-12.0	27460201			
	ECLASS-13.0	27460201			
ET	ETIM				
	ETIM 9.0	EC002637			
UNSPSC					
	UNSPSC 21.0	39121400			



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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%	



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Mandatory accessories

FP 0,8/20-FH-SH - SMD female connector shielded

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FP 0,8/20-FV-SH 10,85 - SMD female connectors

1154032

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FP 0,8/20-FV-SH 4,85 - SMD female connector shielded

1053612

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Shielded SMD female connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.8 mm, color: black, contact surface: Au, contact connection type: Socket, mounting: SMD soldering

FP 0,8/20-FV-SH 7,85 - SMD female connector shielded

1053614

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Shielded SMD female connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.8 mm, color: black, contact surface: Au, contact connection type: Socket, mounting: SMD soldering

Accessories



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FP 0,8/20-FV-SH 4,85 - SMD female connector shielded

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Shielded SMD female connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.8 mm, color: black, contact surface: Au, contact connection type: Socket, mounting: SMD soldering

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