

1043791

https://www.phoenixcontact.com/us/products/1043791

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shielded SMD male connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 12, pitch: 0.8 mm, color: black, contact surface: Gold, 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	1043791
Packing unit	1 pc
Minimum order quantity	400 pc
Sales key	AA23
Product key	AAWJDA
GTIN	4055626616520
Weight per piece (including packing)	2.232 g
Weight per piece (excluding packing)	2.175 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	12
Pitch	0.8 mm
Number of rows	2
Number of potentials	12
Pin layout	Linear pad geometry
Electrical characteristic	shielded

Electrical properties

Nominal current I _N	1.7 A IEC 60512-5-2:2002-02 (at 20°C 80-pos.)
Degree of pollution	3
Contact resistance	25 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003
Electrical characteristic	shielded

Mounting

	pe SMD soldering
Pin layout Linear pad geometry	Linear pad geometry

Processing notes

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

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb
CTI according to IEC 60112	150



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Flammability rating according to UL 94	
otes	
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 accordance with IEC 60664-1.
Details for soldering processes	The items are suitable for assembly on both sides and for overhead soldering.
mensions	
Dimensional drawing	ph ph
Pitch	0.8 mm
Width [w]	9.2 mm
Height [h]	6.45 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	± 5 ° in longitudinal and transverse direction (when plugging in)
	± 5 ° 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
ectrical tests	
Thermal test Test group C	UTO 00540 5 0 0000 00
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 clearances and creepage distances	
Insulating material group	IIIb
Minimum value for clearance and creepage distance	0.25 mm



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Environmental and real-life conditions

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)
Sweep speed	200 m/s² (58 Hz 2000 Hz)
Test duration per axis	2.5 h

Durability 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

Shocks

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

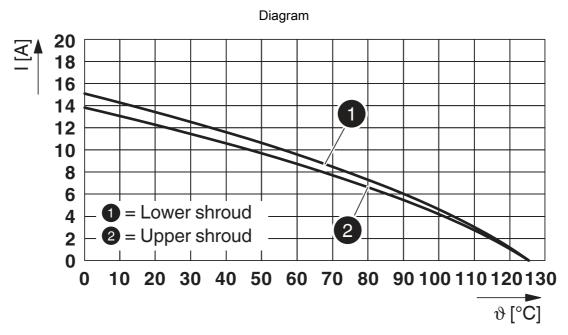
Dimensional drawing	W. A
Type of packaging	24 mm wide tape
[W] tape width	24 mm
[W2] coil overall dimension	30.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



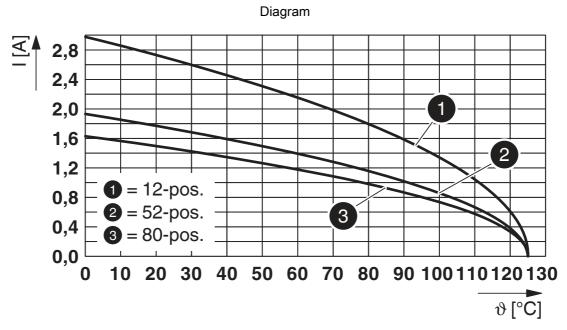
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Drawings



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/us/products/1043791



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		
ETIM				
	ETIM 8.0	EC002637		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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Mandatory accessories

FP 0,8/ 12-FV-SH 10,85 - SMD female connector shielded

1154031

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Shielded SMD female connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 12, pitch: 0.8 mm, color: black, contact surface: Gold, contact connection type: Socket, mounting: SMD soldering

FP 0,8/12-FH-SH - SMD female connector shielded

1043722

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Shielded SMD female connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 12, pitch: 0.8 mm, color: black, contact surface: Gold, contact connection type: Socket, mounting: SMD soldering



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FP 0,8/12-FV-SH 4,85 - SMD female connector shielded

1043710

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Shielded SMD female connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 12, pitch: 0.8 mm, color: black, contact surface: Gold, contact connection type: Socket, mounting: SMD soldering

FP 0,8/12-FV-SH 7,85 - SMD female connector shielded

1043682

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Shielded SMD female connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 12, pitch: 0.8 mm, color: black, contact surface: Gold, contact connection type: Socket, mounting: SMD soldering

Accessories



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FP 0,8/12-FV-SH 4,85 - SMD female connector shielded

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