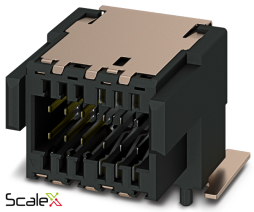
SMD male connector, shielded - FP 0,8/ 52-MH-SH - 1043793

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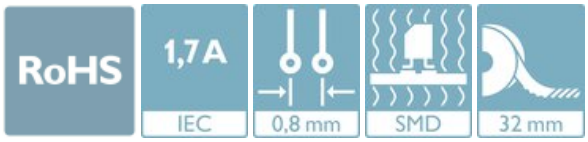


The figure shows a 12-pos. version with 12 contacts

shielded SMD male connector, Nominal current at 20 °C: 1.7 A, Test voltage: 500 V AC, number of positions: 52, pitch: 0.8 mm, color: black, contact surface: Gold, type of contact: Male connector

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



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	400 pc
GTIN	4 055626 616711
GTIN	4055626616711
Custom tariff number	85366930
Country of origin	China

Technical data

Item properties

Brief article description	SMD male connector, shielded
Connector system	FINEPITCH 0,8 shielded
Type of contact	Male connector
Electrical characteristic	shielded

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Technical data

Item properties

Range of articles	FP 0,8/...-MH-SH
Pitch	0.8 mm
Number of positions	52
Mounting type	SMD soldering
Pin layout	Linear pad geometry
Number of rows	2
Number of potentials	52

Electrical data

Nominal current at 20 °C	1.7 A IEC 60512-5-2:2002-02 (80-pos.)
Test voltage	500 V AC IEC 60512-4-1:2003
Contact resistance	≤25 mΩ, (IEC 60512-2-1:2002-02)
Insulation resistance	≥ 5 GΩ, (IEC 60512-3-1:2002-02)

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

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

Dimensions for the product

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [l]	8.95 mm
Width [w]	25.2 mm
Height [h]	6.45 mm
Pitch	0.8 mm
Height (without solder pin)	6.45 mm
Coplanarity	≤ 0.1 mm

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Technical data

Dimensions for PCB design

Pad geometry	0.5 x 1 mm

Dimensions for the application

Contact cover	0.8 mm
Overlap length	1.5 mm
Medium offset	± 0.7 mm in longitudinal and transverse direction
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)

Packaging information

Type of packaging	32 mm wide tape
Pieces per package	400
Denomination packing units	Pcs.
[W] tape width	32 mm
[A] coil diameter	330 mm
[W2] coil overall dimension	38.4 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07

Data transmission

Data transmission rate	up to 16 Gbps

General product information

Type of note	Notes on operation
	Details for soldering processes
Note	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.
	The items are suitable for assembly on both sides and for overhead soldering.

Processing notes

Process	Reflow soldering
Specification	Following IPC/JEDEC J-STD-020E:2014-12
Moisture Sensitive Level	MSL 1
Classification temperature T_c	260 °C

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C

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Technical data

Ambient conditions

Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-55 °C ... 125 °C

Mechanical tests

Insertion and withdrawal force per contact	1.2 N

Air clearances and creepage distances

Air clearances and creepage distances	min. 0.25 mm

Current carrying capacity / derating curves

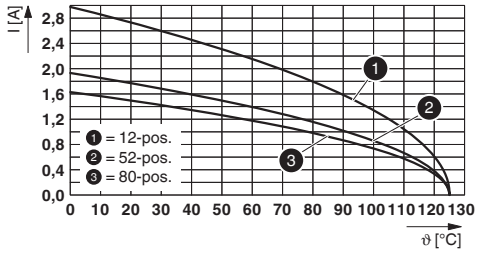
Caption	Type: FP 0,8/...-MH-SH with FP 0,8/...-FH-SH

Service life

Service life	500 Insertion/withdrawal cycles, Performance level 1

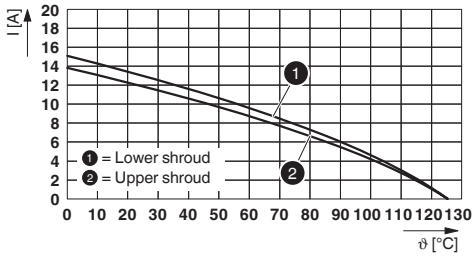
Drawings

Diagram



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

Diagram



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

Classifications

eCl@ss

eCl@ss 10.0.1	27440402
eCl@ss 11.0	27460201
eCl@ss 9.0	27440402

ETIM

ETIM 6.0	EC002637
ETIM 7.0	EC002637

UNSPSC

UNSPSC 18.0	39121409

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Classifications

UNSPSC

UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

Approvals

Approvals

Approvals

EAC / cULus Recognized

Ex Approvals

Approval details

EAC		B.00511/19

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E118976-20190703

Accessories

Additional products

SMD female connector, shielded - FP 0,8/ 52-FV-SH 7,85 - 1043684



Shielded SMD female connector, Nominal current at 20 °C: 1.7 A, Test voltage: 500 V AC, number of positions: 52, pitch: 0.8 mm, color: black, contact surface: Gold, type of contact: Female connector

SMD male connector, shielded - FP 0,8/ 52-MH-SH - 1043793

Accessories

SMD female connector, shielded - FP 0,8/ 52-FV-SH 4,85 - 1043713



Shielded SMD female connector, Nominal current at 20 °C: 1.7 A, Test voltage: 500 V AC, number of positions: 52, pitch: 0.8 mm, color: black, contact surface: Gold, type of contact: Female connector, mounting: SMD soldering

SMD female connector, shielded - FP 0,8/ 52-FH-SH - 1043724



Shielded SMD female connector, Nominal current at 20 °C: 1.7 A, Test voltage: 500 V AC, number of positions: 52, pitch: 0.8 mm, color: black, contact surface: Gold, type of contact: Female connector

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