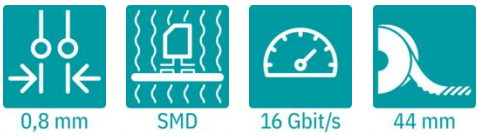
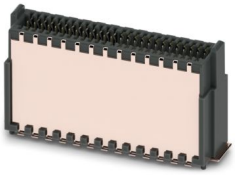
FP 0,8/ 52-MV-SH 8,65 - SMD male connector, shielded

1154122

https://www.phoenixcontact.com/us/products/1154122

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shielded SMD male connector, nominal current: 1.7 A, test voltage: 500 V AC, number of positions: 52, 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	1154122
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AA23
Product key	AAWJDE
GTIN	4063151154929
Weight per piece (including packing)	5.752 g
Weight per piece (excluding packing)	2.73 g
Customs tariff number	85366930
Country of origin	CN

Technical data

Product properties

Product type	shielded SMD male connector
Product family	FP 0,8/...-MV-SH 8,65
Number of positions	52
Pitch	0.8 mm
Number of rows	2
Pin layout	Linear pad geometry
Electrical characteristic	shielded

Fitting of components

Partial assembly	No

Electrical properties

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 60512-4-1:2003-05
Electrical characteristic	shielded

Data transmission

Data transmission rate	16 Gbps

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 (min. 0.5 µm Au)
Metal surface contact area (middle layer)	Nickel (1.27 µm - 4 µm Ni)
Metal surface soldering area (top layer)	Tin (2 µm - 6 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.27 µm - 4 µm Ni)

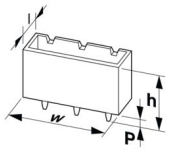
Material data - housing

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

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.
Details for soldering processes	The items are suitable for assembly on both sides and for overhead soldering.

Dimensions

Dimensional drawing	
Pitch	0.8 mm
Width [w]	24.7 mm
Height [h]	13.75 mm
Length [l]	6.1 mm
Installed height	13.15 mm

Application

Contact cover	0.8 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Stack height	13.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/...-FV-SH 4,85
	16.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/...-FV-SH 7,85
	19.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/...-FV 10,85
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 1.1 mm
Hole diameter	0.75 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 clearances and creepage distances |

Insulating material group	IIIb
Minimum value for clearance and creepage distance	0.25 mm

Environmental and real-life conditions

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
Insulation resistance, neighboring positions	≥ 5 GΩ

Vibration 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

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.)

Railway application: Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
	IEC 61373:2010-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 (m/s²)²/Hz
Acceleration	30.6 m/s²

Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Contact interruption	< 1 µs
Result	Test passed

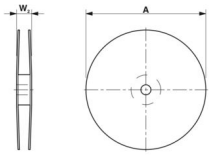
Railway application: Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
	IEC 61373:2010-05
Pulse shape	Semi-sinusoidal
Acceleration	490 m/s²
Shock duration	11 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Contact interruption	< 1 µs
Result	Test passed

Ambient conditions

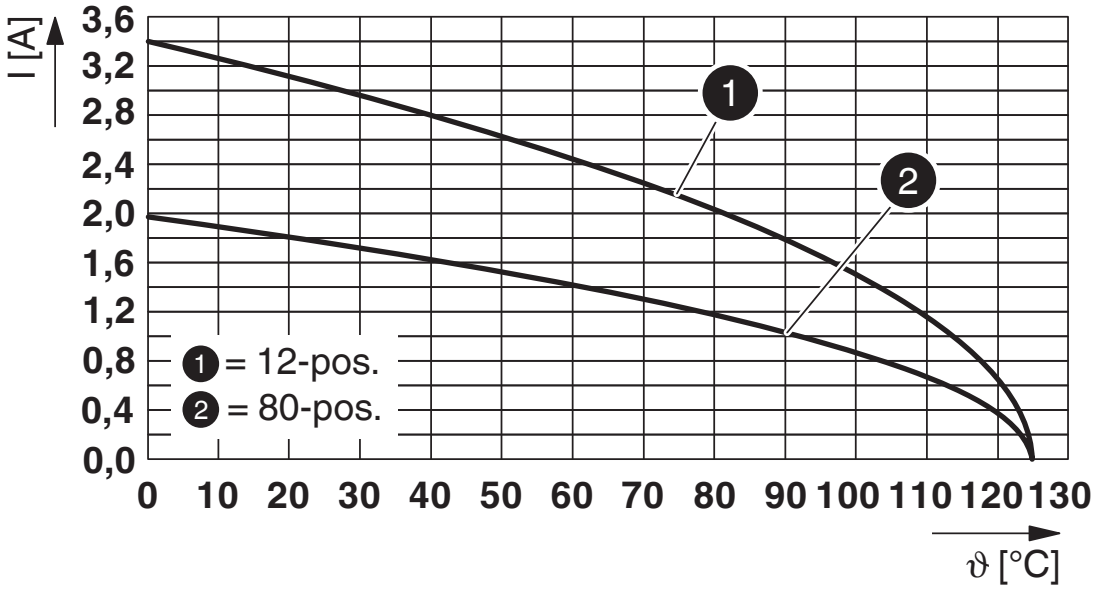
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-55 °C ... 125 °C

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

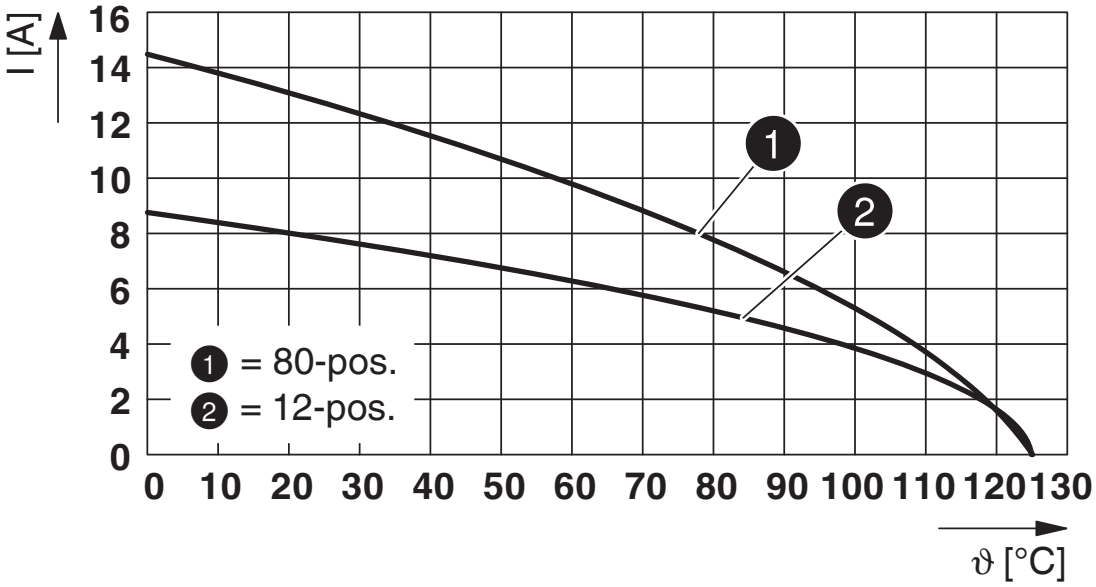
Drawings

Diagram



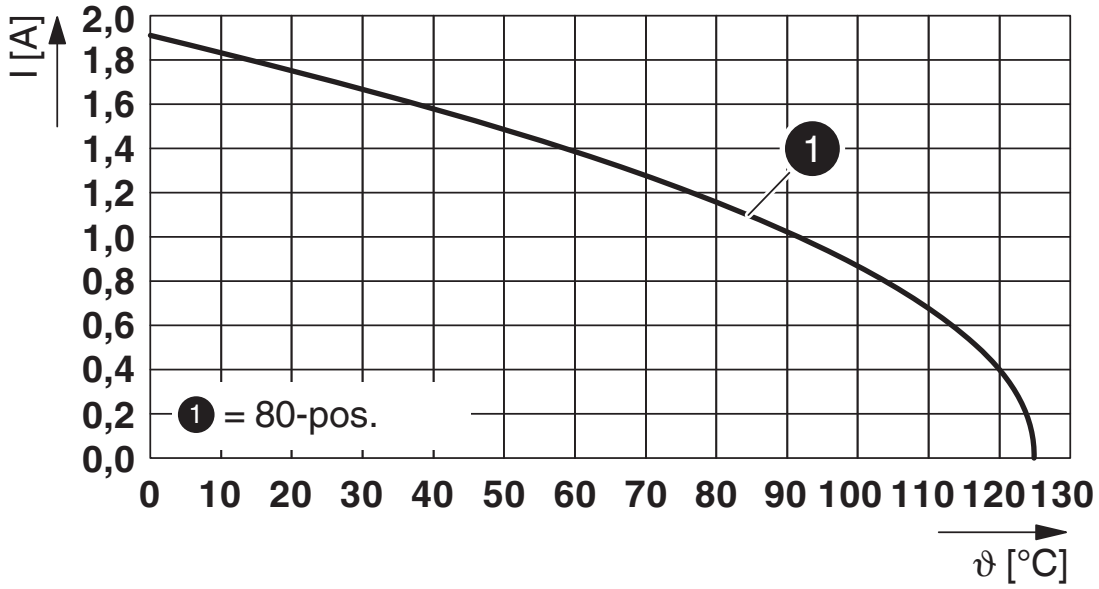
Type: FP 0,8/...-MV-SH 8,65 with FP 0,8/...-FV-SH 7,85 – contacts

Diagram



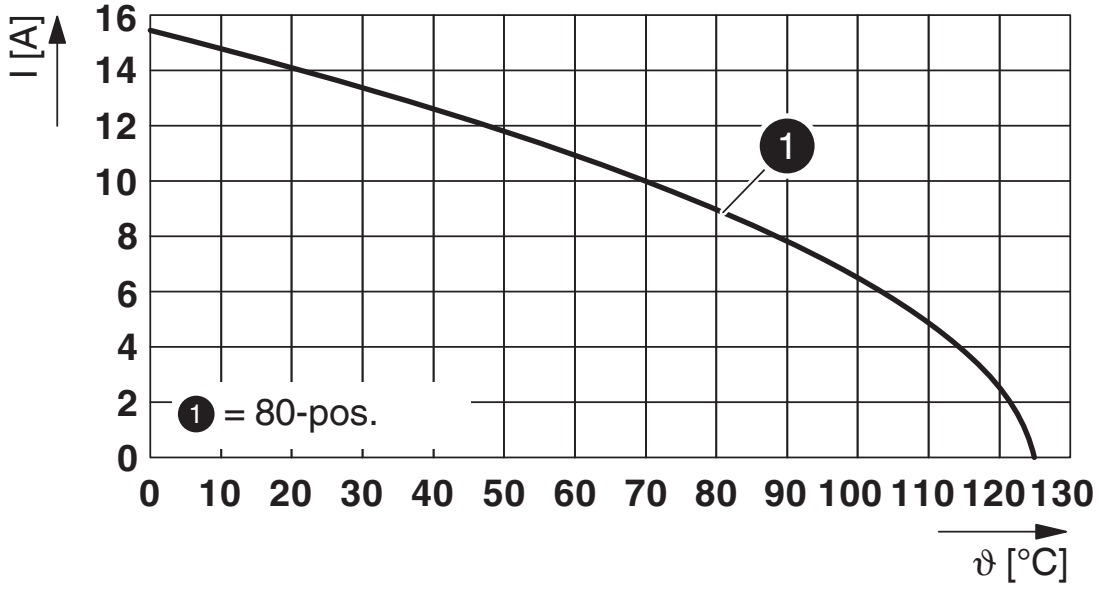
Type: FP 0,8/...-MV-SH 8,65 with FP 0,8/...-FV-SH 7,85 - shroud

Diagram



Type: FP 0,8/...-MV-SH 8,65 with FP 0,8/...-FV-SH 10,85 - contacts

Diagram



Type: FP 0,8/...-MV-SH 8,65 with FP 0,8/...-FV-SH 10,85 - shroud

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1154122

cULus Recognized
Approval ID: E118976-20190703

Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 10.0	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%

EF3.1 Climate Change

CO2e kg	0.014 kg CO2e

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