

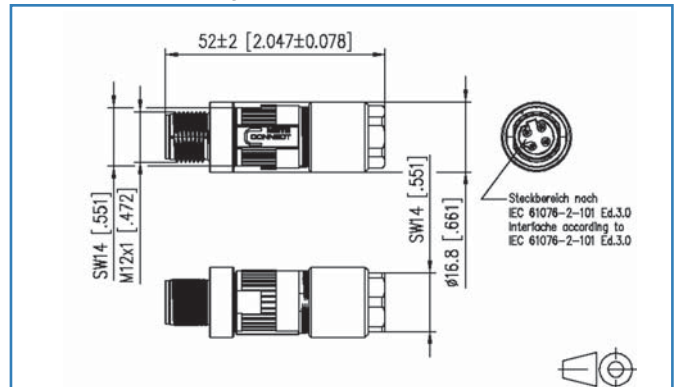
Data sheet

M12 field plug D-coded, straight

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- M12 Cat.5 D-coded plug based on IEC PAS 61076-2-101 and suitable for field packaging
- 4-wire M12 plug for AWG 22 to be assembled in the field
- connection of AWG 26/7 - 22/7; AWG 24/1 - 22/1 possible
- solid copper wire diameter from 0.4 to 0.64 mm
- stranded copper wire diameter from 0.48 to 0.76 mm
- conductor diameter up to 1.6 mm
- cable jacket from 5.0 to 9.7 mm
- consists of only 2 parts
- easy assembly - connection without special tools
- zinc die-cast housing for industrial use

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Technical Data

General Data

Design	Plugs
Shielding	shielded
Transmission technology	Copper
Dimensions	
Dimension (L x W x H)	52.00 x 16.80 x 16.80 mm
Dimension (L x W x H)	2.05 x 0.66 x 0.66 in.
Field assembly ability	yes
Labeling option	on housing

Transmission characteristics

Category (ISO)	5
Category (TIA)	5

Connections/interfaces

Connector technology interface 1	IDC-connection
Connector technology interface 2	M12-plug
Number of ports interface 2	1
Number of ports interface 2 equipped	1
Number of positions/contacts interface 1	4
Number of positions/contacts interface 2	4
Termination data, solid wire (min. - max.)	
Conductor cross section, solid wire	AWG 24 - 22
Conductor cross section, solid wire	0.205 - 0.324 mm ²
Conductor diameter, solid wire (bare copper)	0.511 - 0.643 mm
Conductor diameter, solid wire (bare copper)	0.020 - 0.025 in.
Termination data, stranded wire (min. - max.)	
Conductor cross section, stranded wire	AWG 26 - 22
Conductor cross section, stranded wire	0.141 - 0.355 mm ²
Conductor diameter, stranded wire (bare copper)	0.483 - 0.762 mm
Conductor diameter, stranded wire (bare copper)	0.019 - 0.030 in.

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Connections/interfaces

Core diameter (min. - max.)	
Core diameter (conductor with insulation)	0.85 - 1.60 mm
Core diameter (conductor with insulation)	0.033 - 0.06 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5.00 - 9.70 mm
Cable sheath diameter	0.20 - 0.38 in.
Cable access/outlet	straight M12

Electrical characteristics

Current carrying capacity	max. 1 A
Rated voltage	60 V
Insulation resistance	min. 100 MOhm
Dielectric strength conductor-conductor (secondary)	1400 V DC

Mechanical characteristics

Mounting method	screwable
Life - Number of mating cycles	min. 100

Materials and material properties

Material - Housing	GD-Zn (zinc die-cast)
Material - Contact	CuZn (brass)
Material - Contact finish	Ni + Au (nickel-gold)
Material - Shield	CuSn (tin bronze)
Material - Shield finish	Sn (tin)
Material - Stuffer cap	PA UL94-V0

Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-25 - 85 °C
Temperature - Storage °F	-13 - 185 °F
Temperature - Operating °C	-25 - 85 °C
Temperature - Operating °F	-13 - 185 °F
Particulate ingress	IP6X when plugged in
Liquid ingress/immersion	IPX7 when plugged in
Damp heat	25 °C / +40 °C / 93% RH // 5 cycles

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Environmental conditions

Overvoltage category	III
Pollution degree	2
Electromagnetic measurement	E ₂
Shock	490 m/s ²

Approvals

RoHS	compliant
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The product meets the following standards

Connectors for electronic equipment	
Round plug connectors	DIN EN 61076-2-101

Packing details

Type of packaging	10 pc(s) / box
Packaging dimension (W x H x D)	247.00 x 161.00 x 58.00 mm
Packaging dimension (W x H x D)	9.72 x 6.34 x 2.28 in.

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