

Data sheet

M12 field plug D-coded, straight

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P/N

MNF881A115

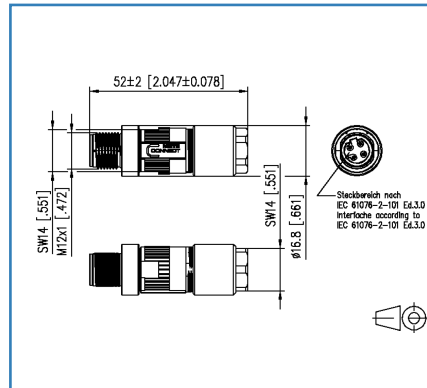
EAN 4250184190318

2018-27-03

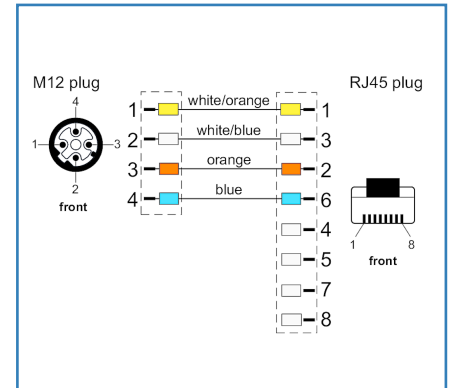
Illustrations



Dimensional drawing



Wiring



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
- M12 field plug for AWG 22
- for a 4 wire cable connection
- 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
- suitable for applications in the railway industry



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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)	2.047 x 0.661 x 0.661 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 equipped ports interface 2	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 24/1 - 22/1
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 26/7 - 22/7
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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Technical Data

Connections/interfaces

Core diameter (min. - max.)

Core diameter (conductor with insulation) 0.85 - 1.60 mm

Core diameter (conductor with insulation) 0.033 - 0.063 in.

Cable sheath diameter (min. - max.)

Cable sheath diameter 5.00 - 9.70 mm

Cable sheath diameter 0.197 - 0.382 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

Material - Finish Ni (nickel)

Environmental conditions

Temperature (min. - max.)

Temperature - Storage °C -40 - 85 °C

Temperature - Storage °F -40 - 185 °F

Temperature - Operating °C -40 - 85 °C

Temperature - Operating °F -40 - 185 °F

Particulate ingress IP6X when plugged in

Liquid ingress/immersion IPX7 when plugged in



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Technical Data

Environmental conditions

Damp heat	25 °C / +40 °C / 93% RH // 5 cycles
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

Application-specific communications cabling systems

Profinet	yes
Connectors for electronic equipment	
circular connector	DIN EN 61076-2-101
Railway applications	
Electronic equipment used on rolling stock	DIN EN 50155
Fire protection on railway vehicles	DIN EN 45545-2

Classifications

ETIM 6.0	EC001121
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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)	9.724 x 6.339 x 2.283 in.



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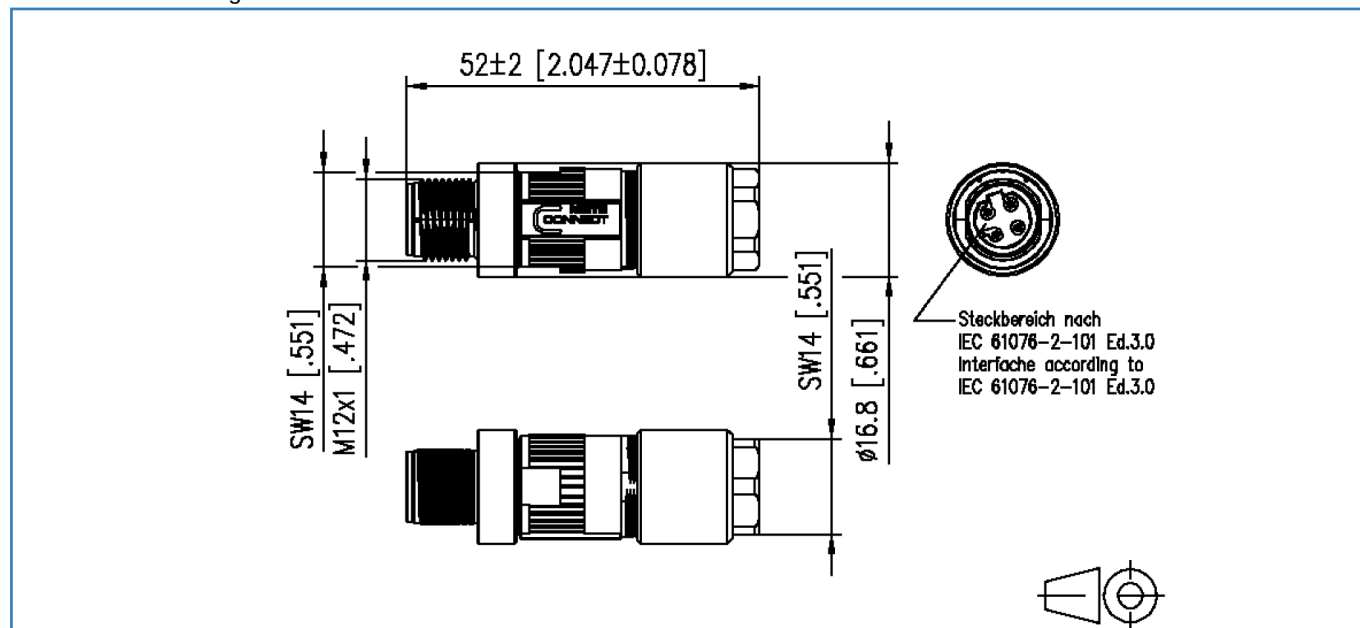
Accessories

P/N	Designation
700669	M12 plug protection cap IP54



Illustrations

Dimensional drawing



Wiring

