

Data sheet

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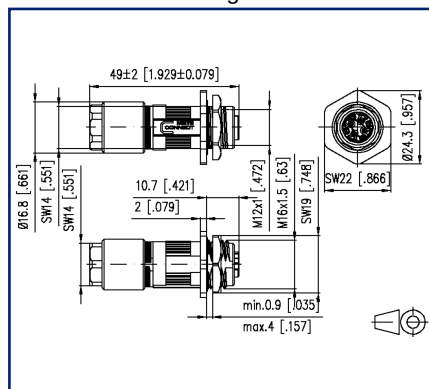
M12 jack, D-coded, IP67, Cat.5, Ø 6-9.7 mm, field assembly, with flange

P/N
MMF881A115-0001
EAN 4251394625256
2026/08/21
Version: AA

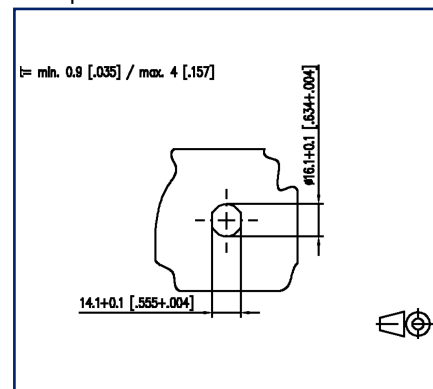
Illustrations



Dimensional drawing



Drill pattern



See enlarged drawings at the end of document

Product specification

- 4-pole jack for field assembly Cat.5
- M12 connector following to DIN EN 61076-2-101:2012 with flange
- suitable for 100 MBit Fast Ethernet as per IEEE 802.3an
- AWG 26/1 to 22/1, AWG 26/7 to 22/7 can be connected
- solid copper wire diameter 0.41 to 0.64 mm
- stranded copper wire diameter 0.48 to 0.76 mm
- wire diameter with isolation up to 1.6 mm
- cable jacket from 6.0 to 9.7 mm
- jack consists of only two parts
- easy assembly without special tools
- industry-compatible zinc die-cast housing
- suitable for applications in the railway industry according to data sheet



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Technical Data

General Data

Electromagnetic measurement according to MICE	E2
Design	Jack
Mounting style	back side
Shielding	shielded
Transmission technology	Copper
Dimensions	
Dimension (L x W x H)	49 mm x 16.8 mm x 16.8 mm
Dimension (L x W x H)	1.929 in. x 0.661 in. x 0.661 in.
Field assembly ability	yes
Labeling option	on housing

Transmission characteristics

Category (ISO)	5e
Category (TIA)	5e
Remote Powering	yes
PoE	IEEE 802.3af
PoE plus	IEEE 802.3at

Connections/interfaces

Connector technology interface 1	IDC-connection
Connector technology interface 2	M12-jack
Coding interface 2	D-coded
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



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Technical Data

Connections/interfaces

Termination data, solid wire (min. - max.)

Conductor cross section, solid wire	AWG 26/1 - AWG 22/1
Conductor cross section, solid wire	0.128 mm ² - 0.324 mm ²
Conductor diameter, solid wire (bare copper)	0.409 mm - 0.643 mm
Conductor diameter, solid wire (bare copper)	0.016 in. - 0.025 in.

Termination data, stranded wire (min. - max.)

Conductor cross section, stranded wire	AWG 26/7 - AWG 22/7
Conductor cross section, stranded wire	0.141 mm ² - 0.355 mm ²
Conductor diameter, stranded wire (bare copper)	0.483 mm - 0.762 mm
Conductor diameter, stranded wire (bare copper)	0.019 in. - 0.03 in.

Aderdurchmesser (min.-max.)

Core diameter (conductor with insulation)	0.85 mm - 1.6 mm
Core diameter (conductor with insulation)	0.033 in. - 0.063 in.

Cable sheath diameter (min. - max.)

Cable sheath diameter	6 mm - 9.7 mm
Cable sheath diameter	0.236 in. - 0.382 in.

Cable access/outlet straight M12

Electrical characteristics

Current carrying capacity at 40 °C	max. 4 A
Rated voltage	48 V AC / 60 V DC
Note for contact resistance	plug / jack
Contact resistance	max. 5 mOhm
Insulation resistance	min. 100 MOhm

Mechanical data

Mounting method	screwable
Insertion and withdrawal force	10 N 15 N
Life - Number of mating cycles	min. 100



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Materials and material properties

Material - Housing	GD-Zn
Material - Contact	CuZnPb (brass)
Material - Contact finish	Ni + Au (nickel-gold)
Material - Contact carriers	PA UL 94 V0
Material - Shield	CuSn
Material - Shield finish	Sn
Material - Stuffer cap	PA UL94-V0
Material - Finish	Ni (nickel)
RoHS	compliant

Environmental conditions

Temperature (min. - max.)	
Note for Temperature - Operating	plug / jack
Temperature - Operating °C	-40 °C - 85 °C
Temperature - Operating °F	-40 °F - 185 °F
Protection category	IP65, IP67 when plugged in
Particulate ingress	IP6X when plugged in
Liquid ingress/immersion	IPX5, IPX7 when plugged in
Overvoltage category	II
Degree of pollution	3

Approvals

UL listed (file no.)



DUXR.E178484

Standards/Regulations

Application-specific communications cabling systems

Profinet	yes
Connectors for electronic equipment	
circular connector	M12 connector following to DIN EN 61076-2-101:2012
Connectors for electronic equipment - Tests and measurements	
Test standard for connectors (engaging and separating connectors under electrical load)	DIN-EN 60512-99-001



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Standards/Regulations

Railway applications

Contact holder	Thermoplastic HL1-HL3; R22, R23 according to EN 45545-2:2020+A1:2023
Flammable mass (g)	1.2 g
Stuffer cap	Thermoplastic HL1-HL3; R22, R23 according to EN 45545-2:2020+A1:2023
Flammable mass (g)	0.97 g
Sealings	Elastomer
Flammable mass (g)	1.63 g
Shock and vibration	EN 50155:2021, EN 61373:2010 Class 1 Category B
Salt spray	EN 50155:2021, (DIN EN 60068-2-11:2000-02/ 48-hour KA test)

Classifications

ETIM 7.0	EC002635
ETIM 8.0	EC002635
ETIM 9.0	EC002635
ETIM 10.0	EC002635

Packing details

Type of packaging	10 pc(s) / box
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Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.



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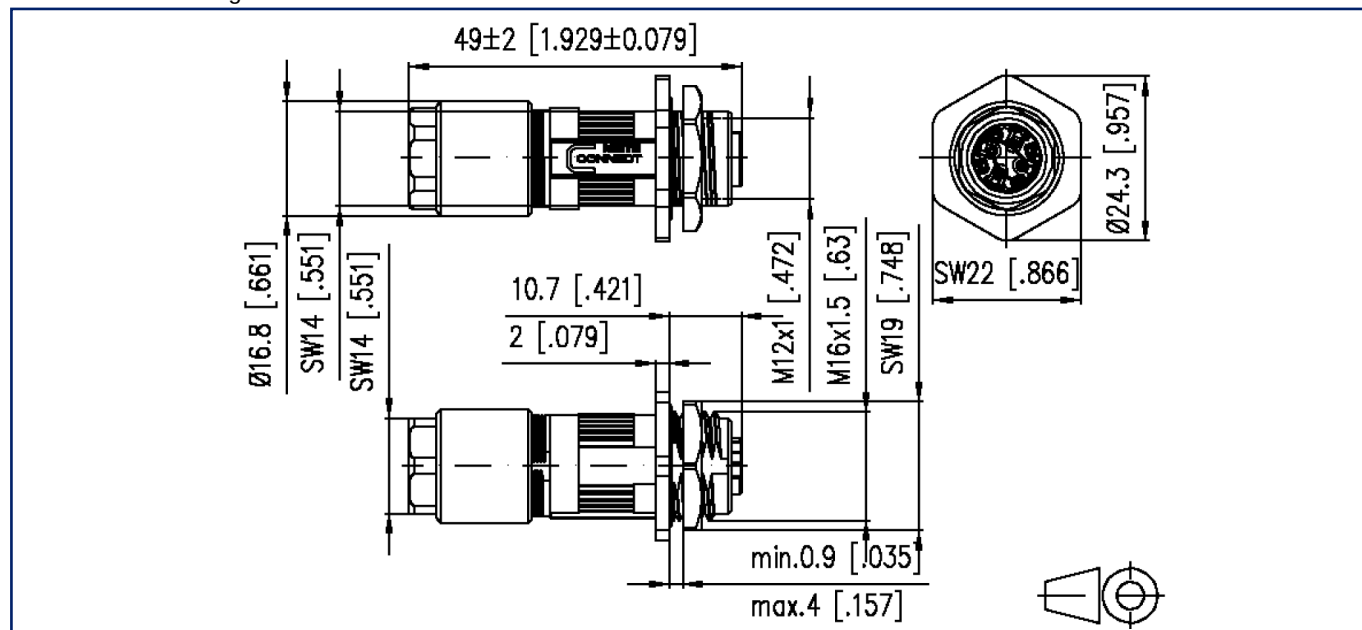
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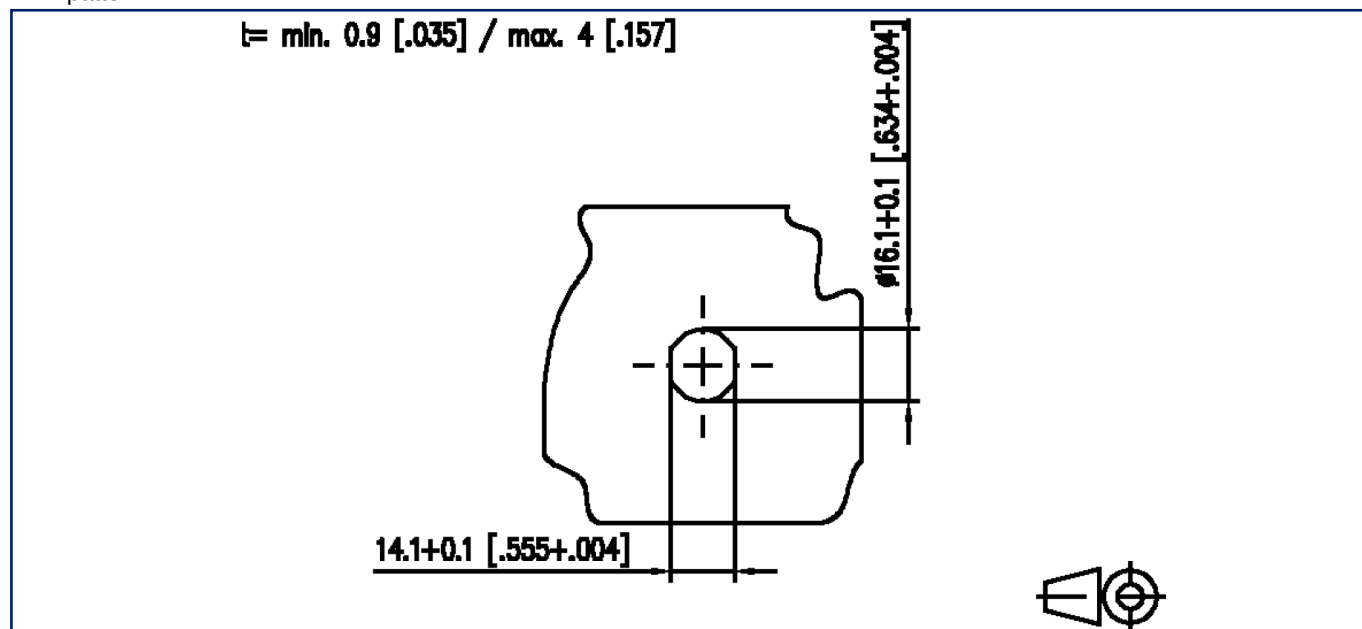
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Illustrations

Dimensional drawing



Drill pattern



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Wiring diagram

M12 jack

