

# Data sheet

**M12 jack, D-coded, IP67, Cat.5, Ø 4-6 mm,  
field assembly, straight**

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P/N  
MMF891A115

EAN 4251394672779

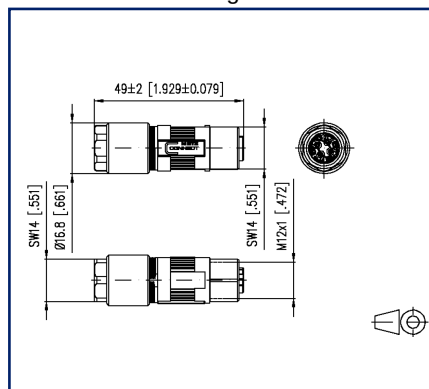
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Version: M

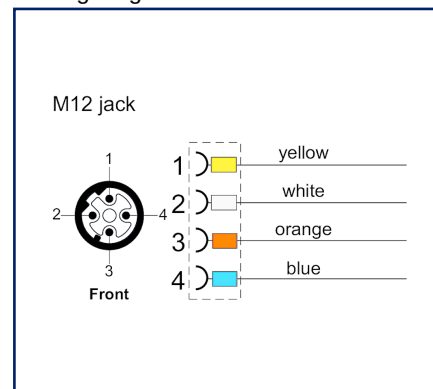
## Illustrations



Dimensional drawing



Wiring diagram



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
- 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 4.0 to 6.0 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                              |
| 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 |

### 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                                             |
| 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 <sup>2</sup> - 0.324 mm <sup>2</sup> |
| Conductor diameter, solid wire (bare copper) | 0.409 mm - 0.643 mm                           |
| Conductor diameter, solid wire (bare copper) | 0.016 in. - 0.025 in.                         |



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## Technical Data

### Connections/interfaces

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 <sup>2</sup> - 0.355 mm <sup>2</sup> |
| 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 | 4 mm - 6 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<br>15 N |
| Life - Number of mating cycles | min. 100     |

### 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            |



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### Materials and material properties

|                   |             |
|-------------------|-------------|
| 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              | IP67 when plugged in |
| Overvoltage category             | II                   |
| Degree of pollution              | 3                    |

### Approvals

UL listed (file no.)



DUXR.E178484

### Standards/Regulations

|                                     |                                                                      |
|-------------------------------------|----------------------------------------------------------------------|
| Connectors for electronic equipment |                                                                      |
| circular connector                  | M12 connector following to DIN EN 61076-2-101:2012                   |
| 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)                  | 2.23 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)          |



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**Technical Data****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 |
|-------------------|----------------|

**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. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).



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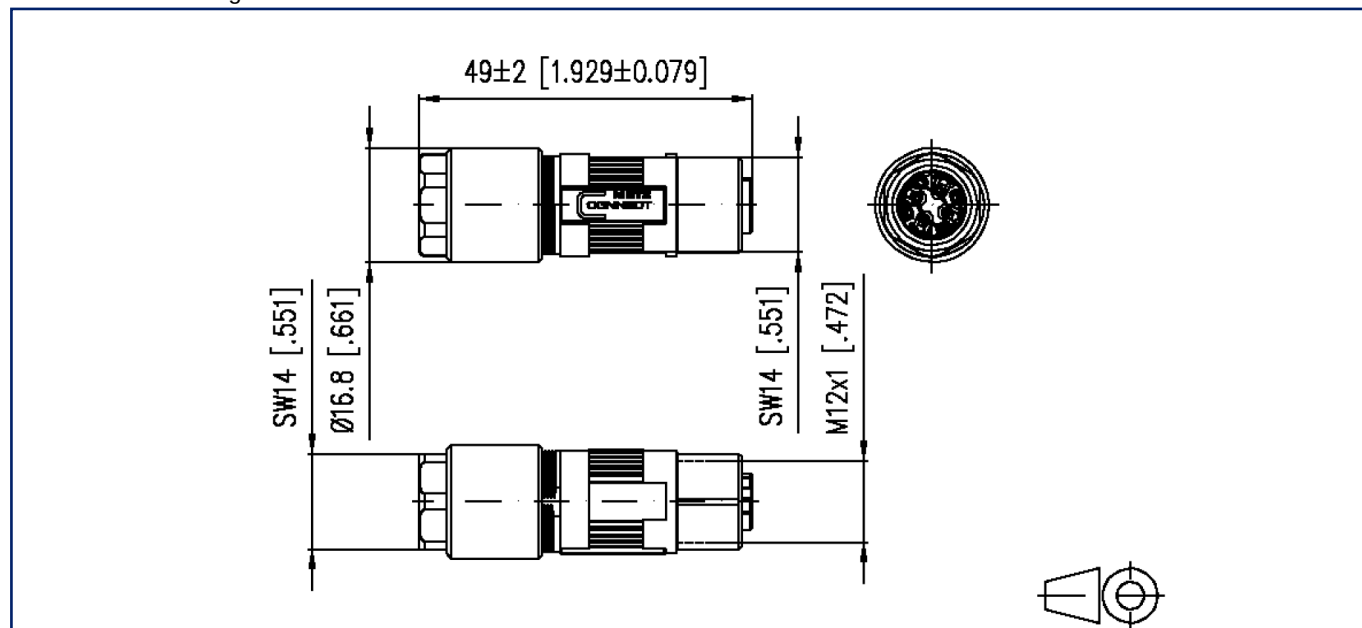
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### Wiring diagram

