

Data sheet

PC board jack M12, X-coded, 8-pole, IP67,
90° angled, max. 4 mm wall thickness, in individual parts

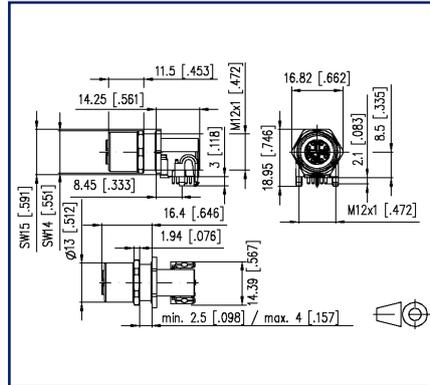
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P/N
MMT471A315-0004
EAN 4250184169512
2025/08/28
Version: O

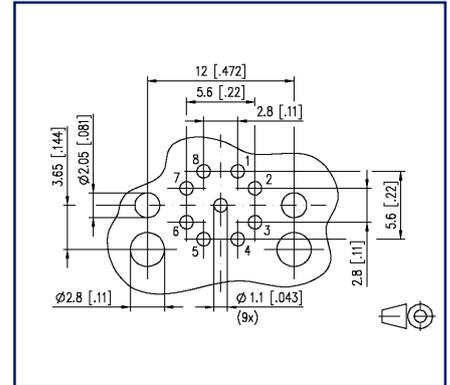
Illustrations



Dimensional drawing



Drill pattern



See enlarged drawings at the end of document

Product specification

- PC board jack M12
- 8-pole, X-coded according to IEC 61076-2-109
- 90° angled
- 10 GBit suitable according to IEEE 802.3an
- THR solderable
- Side entry
- Contact carriers green
- IP67 when plugged in
- suitable for a wall thickness up to 4 mm
- in individual parts
- suitable for applications in the railway industry according to data sheet



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Technical Data

General Data

Dimensions

| | |
|---------------------------|-----------------------------------|
| Dimension (L x W x H) | 30.65 mm x 16.82 mm x 18.95 mm |
| Dimension (L x W x H) | 1.207 in. x 0.662 in. x 0.746 in. |
| Jack | M12 |
| Coding | X-coded |
| For wall thickness (mm) | 4 mm |
| For wall thickness (inch) | 0.157 in. |

Electrical characteristics

| | |
|--|-------------------|
| Rated voltage | 50 V AC / 60 V DC |
| Effective value of the withstand voltage | 0.5 kV |
| Nominal current at 50 °C | max. 0.5 A |
| Insulation resistance | min. 100 MOhm |
| Overvoltage category | II |
| Degree of pollution | 2 |

Mechanical data

Material

| | |
|-----------------------------------|---|
| Material - Housing | CuZnPb |
| Material - Contact | CuZnPb |
| Contact surface | Ni + Au |
| Material - Insulating body | PA UL 94 V0 |
| Life - Number of mating cycles | >= 100 |
| Tightening torque - Plug | 0,6 - 1 Nm |
| Tightening torque - Jack mounting | 3 Nm +/- 0,5 Nm (see illustration at the end of the data sheet) |
| Protection category | IP67 when plugged in |

Climatic properties

| | |
|----------------------------|-----------------|
| Temperature - Operating °C | -40 °C - 85 °C |
| Temperature - Operating °F | -40 °F - 185 °F |

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Technical Data**Approvals**

Approval mark UL/CSA E178484

Packaging

Type of packaging 5 pc(s) / blister packaging

Standards/Regulations

Railway applications

Electronic equipment used on rolling stock following to DIN EN 50155

Fire protection on railway vehicles following to DIN EN 45545-2

Classifications

ETIM 7.0 EC002637

ETIM 8.0 EC002637

ETIM 9.0 EC002637

ETIM 10.0 EC002637

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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Accessories

| P/N | Designation |
|--------|-------------------------------|
| 700701 | M12 screw plug for jacks IP54 |



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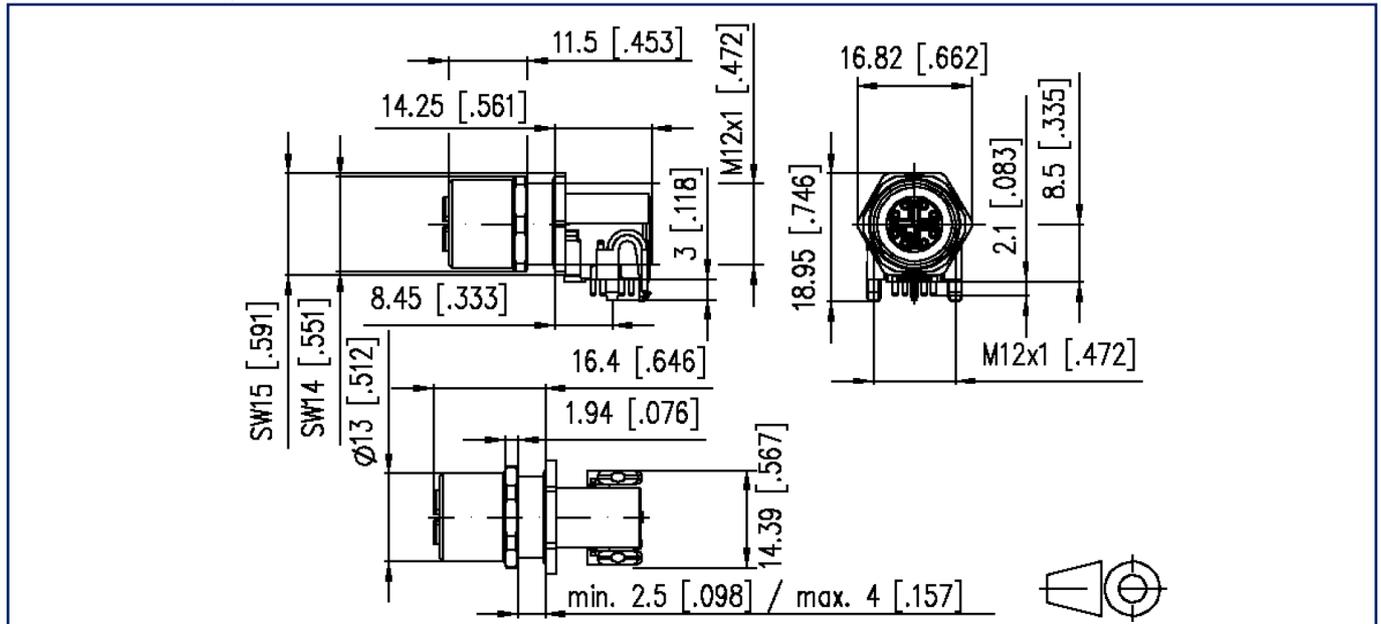
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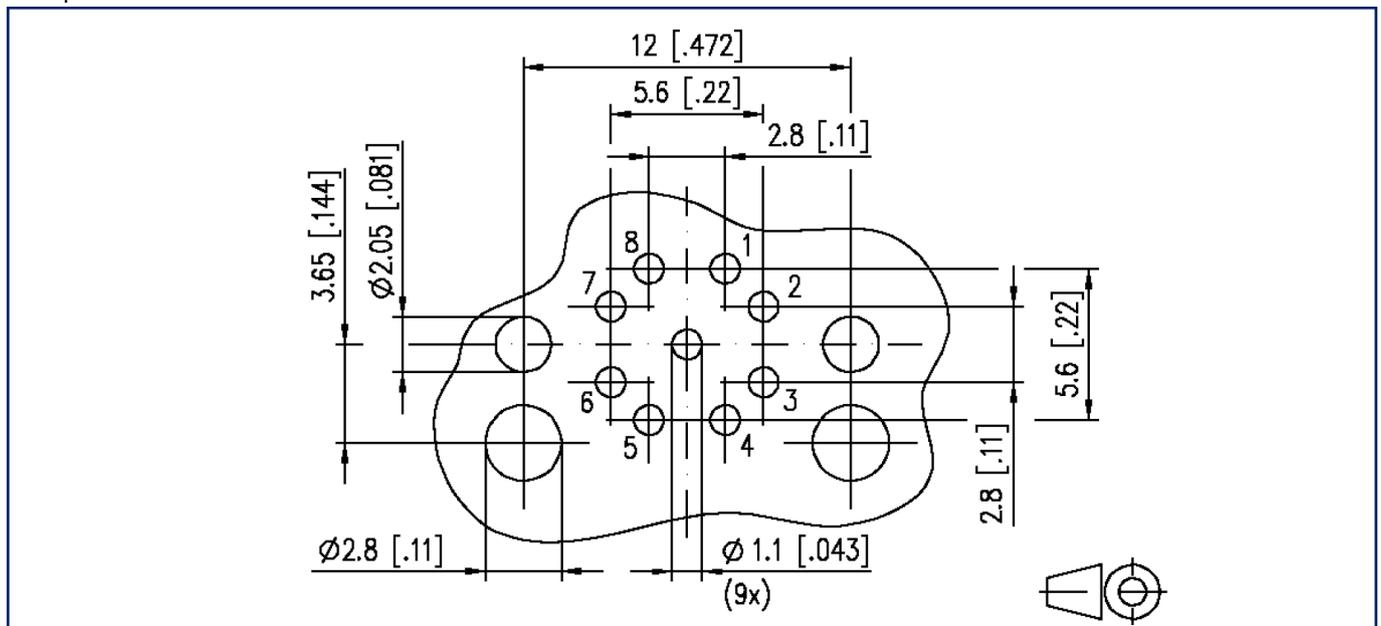
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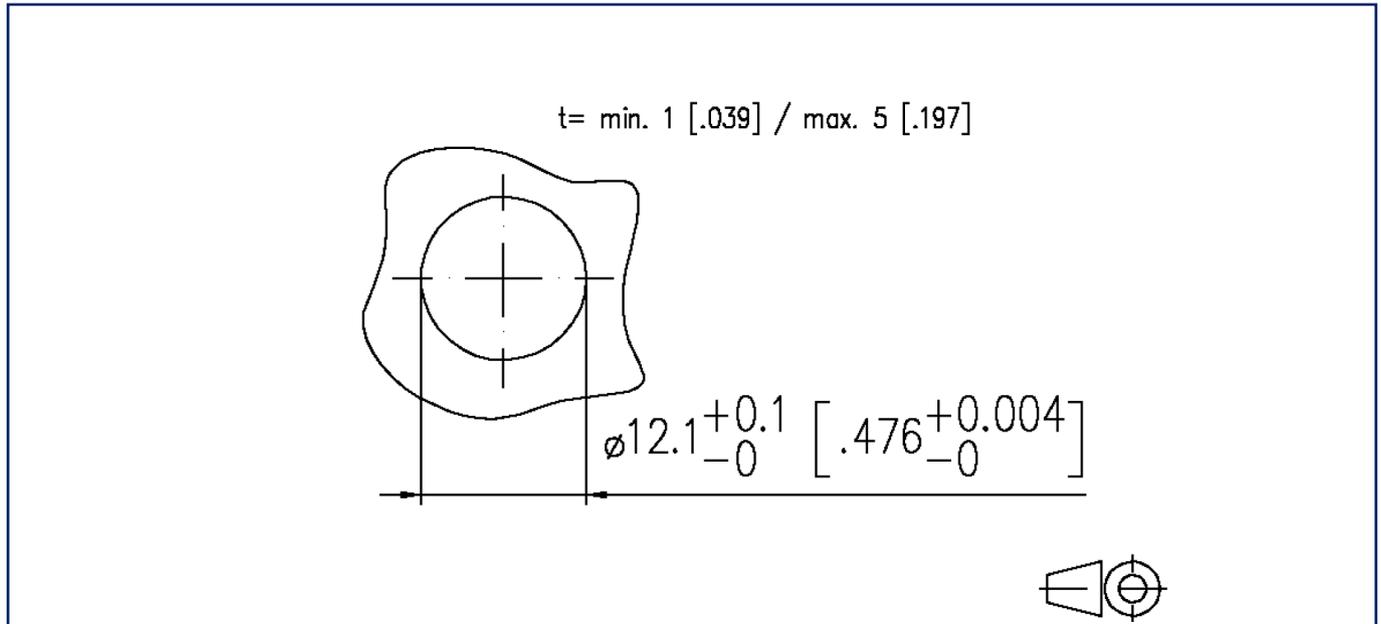
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Cut-out

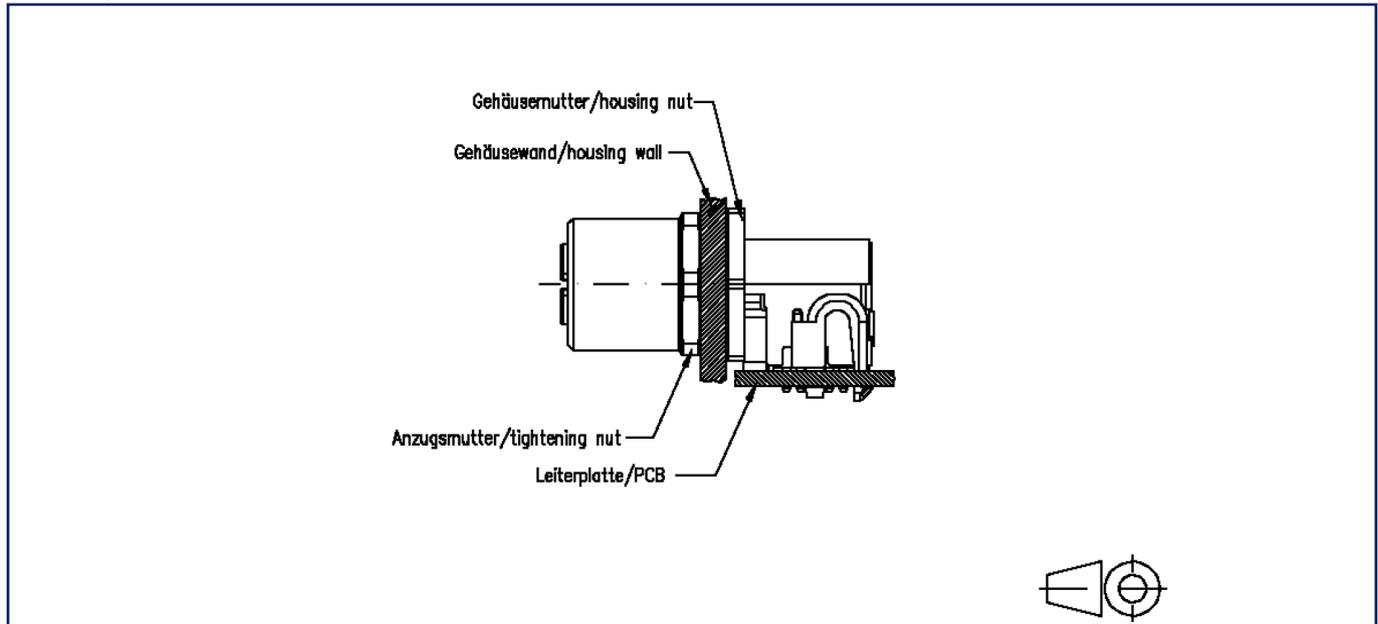


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Mounting instruction



Tightening torque - Jack mounting

3 Nm +/- 0,5 Nm (Measured between tightening nut and housing nut)

