

Data sheet

E-DAT RJ45 field plug short Cat.6 Class E_A

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P/N

1401400812-E

EAN 4251394609881

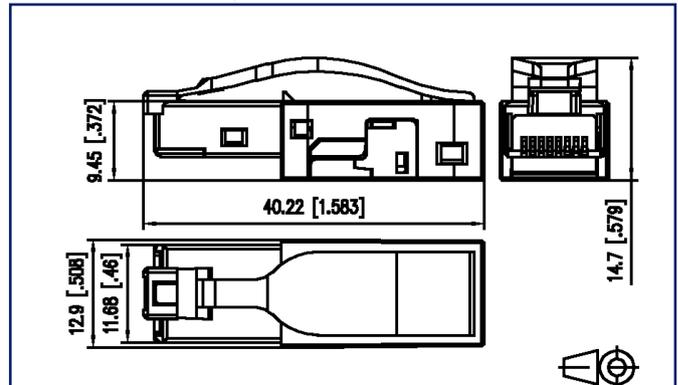
2026/01/26

Version: P

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- Cat.6 class E_A plug to be assembled in the field
- compliance with class E_A according to ISO/IEC 11801, DIN EN 50173-1
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, UPoE and 4PPoE) and HDBaseT
- 8-wire RJ45 plug for AWG 22 to be assembled in the field
- connection of AWG 26/7 - 22/7, AWG 26/1 - 22/1 possible
- solid wire Cu conductor diameter 0.409 - 0.64 mm
- stranded copper wire diameter from 0.48 to 0.76 mm
- conductor diameter up to 1.6 mm
- consists of only 2 parts
- easy assembly - connection without special tools
- zinc die-cast housing for industrial use
- with locking lever
- variants: T568A, T568B, Industry



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Technical Data

General Data

| | |
|---|-----------------------------------|
| Fields of application | Industrial Ethernet |
| Mechanical measurement according to MICE | M1 |
| Ingress measurement according to MICE | I1 |
| Climatic measurement according to MICE | C1 |
| Electromagnetic measurement according to MICE | E2 |
| Design | plug |
| Shielding | shielded |
| Transmission technology | Copper |
| Color | metallike |
| Dimensions | |
| Dimension (L x W x H) | 40.22 mm x 12.9 mm x 14.7 mm |
| Dimension (L x W x H) | 1.583 in. x 0.508 in. x 0.579 in. |
| Field assembly ability | yes |
| Labeling option | on housing |

Transmission characteristics

| | |
|---------------------------------|----------------|
| Category (ISO) | 6 |
| Class (ISO/IEC) | E _A |
| Category (TIA) | 6 |
| Remote Powering | yes |
| PoE | IEEE 802.3af |
| PoE plus | IEEE 802.3at |
| UPoE | yes |
| 4PPoE | IEEE 802.3bt |
| HDBaseT | yes |
| Transmission rate up to 10 GBit | IEEE 802.3an |



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| Connections/interfaces | |
|---|---|
| Connector technology interface 1 | IDC-connection |
| Connector technology interface 2 | RJ45 plug |
| Number of ports interface 2 | 1 |
| Number of ports interface 2 equipped | 1 |
| Number of positions/contacts interface 1 | 8 |
| Number of positions/contacts interface 2 | 8P/8C |
| 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) | 1.6 mm |
| Core diameter (conductor with insulation) | 0.063 in. |
| Cable access/outlet | 180° |

| Electrical characteristics | |
|---|----------------|
| Current carrying capacity | max. 1 A |
| Contact resistance | max. 20 mOhm |
| Insulation resistance | min. 500 MOhm |
| Dielectric strength conductor-conductor (secondary) | min. 1000 V DC |
| Dielectric strength conductor-shield | min. 1500 V DC |

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Mechanical data

| | |
|--------------------------------|------------------|
| Mounting method | snap-in function |
| Insertion and withdrawal force | max. 30 N |
| Life - Number of mating cycles | min. 750 |

Materials and material properties

| | |
|---|--------------------------|
| Material - Housing | GD-Zn |
| Material - Housing finish | copper-nickel (Ni-Cu) |
| Material - Insulation displacement contacts | CuSn |
| Material - Finish of insulation displacement contacts | Sn |
| Material - Contact | CuSn |
| Material - Contact finish | Ni + Au (nickel-gold) |
| Material - Shield | Cu-Ni-Zn (nickel silver) |
| Material - Stuffer cap | PA UL94-V0 |
| Material - Strain relief | PA UL94-V0 |
| Material - Latch | PA UL 94 V0 |
| Halogen free | yes |
| Material - Finish | Ni (nickel) |
| RoHS | compliant |

Environmental conditions

| | |
|-----------------------------|--|
| Temperature (min. - max.) | |
| Temperature - Storage °C | -40 °C - 70 °C |
| Temperature - Storage °F | -40 °F - 158 °F |
| Temperature - Operating °C | -40 °C - 70 °C |
| Temperature - Operating °F | -40 °F - 158 °F |
| Particulate ingress | IP2X |
| Liquid ingress/immersion | IPX0 |
| Rapid change of temperature | -40°C to +70°C / 25cycles t = 30 min. |
| Damp heat | +25°C / +77°F +65°C / +149°F / 93% RH // -10°C / -14°F / 21 cycles |
| Flowing mixed gas | +25 °C / +77°F / 73% RH / 4 days, H2S / SO2 |
| Vibration | 50 m/s ² |
| Shock | 250 m/s ² |

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Approvals

UL listed (file no.)



DUXR.E178484

Standards/Regulations

Generic cabling systems

General requirements

ANSI/TIA-568-B.2-10

Office buildings

ISO/IEC 11801 Ed.2.2: 2011-06 | DIN EN 50173-2
ANSI/TIA-568-C

Industrial area

ISO/IEC 24702 | DIN EN 50173-3
ANSI/TIA-1005

Living units

ISO/IEC 15018 | DIN EN 50173-4
ANSI/TIA-570-B

Application-specific communications cabling systems

Profinet

yes

UL standard for Communications-Circuit Accessories

UL 1863

Connectors for electronic equipment

Free and fixed connectors

DIN EN 60603-7-51:2011-01

Interference proof

Immunity for industrial environments

DIN EN 61000-6-2:2006-03

Emission proof

Electromagnetic emission for residential,
commercial and light-industrial environments

DIN EN 61000-6-3:2011-09

Climate tests

IEC 60512-11

Classifications

ETIM 7.0

EC001121

ETIM 8.0

EC001121

ETIM 9.0

EC001121

ETIM 10.0

EC001121



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Technical Data**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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