

Data sheet

E-DAT Industry RJ45 field plug insert Cat.6 Class E_A

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P/N

1401400810-I

EAN 4250184114116

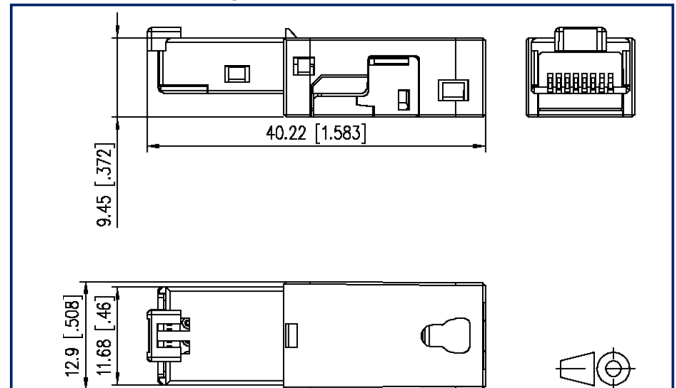
2024/08/16

Version: AS

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 and mounted in IP67 plug housings of variants 1, 4, 5 and 14
- compliance with class E_A according to ISO/IEC 11801, DIN EN 50173-1
- 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
- cable jacket from 5.5 to 8.5 mm
- consists of only 2 parts
- easy assembly - connection without special tools
- zinc die-cast housing for industrial use
- can be used as test plug at IP67 end of variants 1, 4, 5, 6 and 14
- 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 9.45 mm
Dimension (L x W x H)	1.583 in. x 0.508 in. x 0.372 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



Technical Data

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)	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	5.5 mm - 8.50
Cable sheath diameter	0.217 in. - 0.335
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
Strip force (peak)	40

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 UL94 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 / -40°F - +70°C / 158°F / 25 cycles 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



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Environmental conditions

Shock 250 m/s²

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

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Packing details

Type of packaging	10 pc(s) / box
Packaging unit - Weight (gram)	213 g
Packaging unit - Weight (pound)	0.47 lb
Packaging dimension	258 mm x 164 mm x 51 mm
Packaging dimension	10.157 in. x 6.457 in. x 2.008 in.

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 from

P/N	Designation
1401015000ME	Industry IP67 V1 metal plug housing
1401015002KE	Industry IP67 V1 plug housing
1401025000ME	Industry IP67 V1 metal plug housing bend protected
1401025002KE	Industry IP67 V1 plug housing bend protected
1401045002KE	Industry IP67 V4 plug housing
1401055002KE	Industry IP67 V4 plug housing bend protected
1401065000ME	Industry IP67 V5 metal plug housing
14010850C0ME	E-DAT Industry IP67 V14 plug housing for RJ45 unequipped
14010950C0ME	E-DAT Industry IP67 V14 plug housing bend protected for RJ45 unequipped



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