

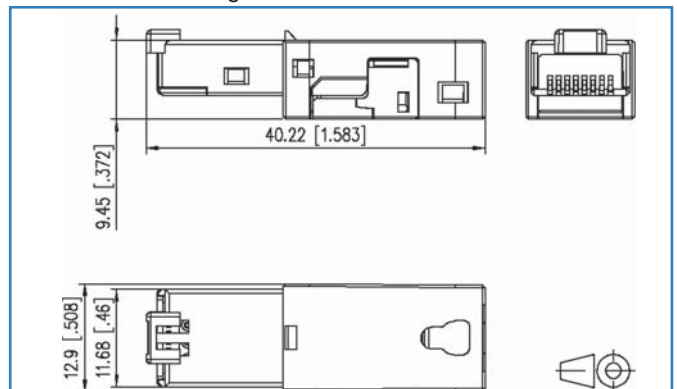
Data sheet

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

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 to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- 10 GBit suitable according to IEEE 802.3an
- suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- 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 copper wire diameter from 0.4 to 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
- protected locking hook
- 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
Design	Plugs
Shielding	shielded
Transmission technology	Copper
Color	metallike
Dimensions	
Dimension (L x W x H)	40.22 x 12.9 x 9.45 mm
Dimension (L x W x H)	1.58 x 0.51 x 0.37 in.
Field assembly ability	yes
Labeling option	on housing

Transmission characteristics

Category (ISO)	6
Class (ISO/IEC)	E _A
Category (TIA)	6
PoE	IEEE 802.3af
PoE plus	IEEE 802.3at
UPoE	yes
Transmission rate up to 10 GBit	IEEE 802.3an

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

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Connections/interfaces

Termination data, stranded wire (min. - max.)	
Conductor cross section, stranded wire	AWG 26 - 22
Conductor cross section, stranded wire	0.141 - 0.355 mm ²
Conductor diameter, stranded wire (bare copper)	0.483 - 0.762 mm
Conductor diameter, stranded wire (bare copper)	0.019 - 0.030 in.
Core diameter (min. - max.)	
Core diameter (conductor with insulation)	0.85 - 1.60 mm
Core diameter (conductor with insulation)	0.03 - 0.06 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5.50 - 8.50 mm
Cable sheath diameter	0.22 - 0.33 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

Mechanical characteristics

Mounting method	snap-in function
Insertion and withdrawal force	max. 30 N
Life - Number of mating cycles	min. 750
Strip force (peak)	40 N

Materials and material properties

Material - Housing	GD-Zn (zinc die-cast)
Material - Housing finish	Ni (nickel)
Material - Insulation displacement contacts	CuSn (tin bronze)
Material - Finish of insulation displacement contacts	Sn (tin)
Material - Contact	CuSn (tin bronze)
Material - Contact finish	Ni + Au (nickel-gold)
Material - Insulating body	PA UL94 V0
Material - Shield	Cu-Ni-Zn (nickel silver)

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Materials and material properties

Material - Stuffer cap PA UL94-V0

Environmental conditions

Temperature (min. - max.)

Temperature - Storage °C 70 °C

Temperature - Storage °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

Electromagnetic measurement E₂

Vibration 50 m/s²

Shock 250 m/s²

Certifications

Gost Certification yes

Approvals

RoHS compliant

UL listed (file no.) DUXR.E178484

The product meets the following standards

Generic cabling systems

General requirements ISO/IEC 11801 Ed.2.2: 2011-06 | DIN EN 50173-1: 2011-09
TIA/EIA 568-B.2-10

Office buildings ISO/IEC 11801 Ed.2.2: 2011-06 | DIN EN 50173-2: 2011-09
TIA/EIA 568-C

Industrial area ISO/IEC 24702 | DIN EN 50173-3: 2011-09
TIA/EIA 1005

Living units ISO/IEC 15018 | DIN EN 50173-4: 2011-09
TIA/EIA 570-B

Expansion of Communication Circuit Accessories (DUXR) Category UL 1863

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The product meets the following standards

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 5.0

EC001121

Packing details

Type of packaging

10 pc(s) / box

Packaging unit - Weight (gram)

213.00 g

Packaging unit - Weight (pound)

0.47 lb

Packaging dimension (W x H x D)

247.00 x 161.00 x 58.00 mm

Packaging dimension (W x H x D)

9.72 x 6.34 x 2.28 in.

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