

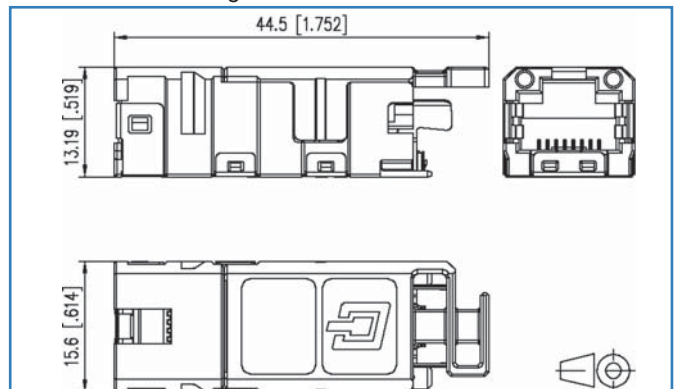
Data sheet

E-DAT Industry RJ45 field jack insert Cat.6 Class E_A, T568B

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- RJ45 jack Cat.6 class E_A to be assembled in the field and mounted in IP67 flange housings of variants 1, 4, 5 and 14
- use for ingress protection IP65 in combination with Universal test jack
- 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)
- no special tools required
- AWG 26/7 - 22/7; AWG 26/1 - 22/1 possible
- no protruding contours
- 2 x FS 2.8 mm grounding connection for equipotential bonding at cable end
- increased resistance to vibrations and shocks due to 4 springs on the shield plates
- consists of only 2 parts; easy to assemble
- solid zinc die-cast housing
- can be reconnected easily
- variants: pin assignment to T568A, T568B or PROFINET

Data sheet

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Technical Data

General Data

Fields of application	Industrial Ethernet
Design	Jack
Shielding	shielded
Transmission technology	Copper
Wiring	T568B
Color	metallike
Dimensions	
Dimension (L x W x H)	44.50 x 13.19 x 15.60 mm
Dimension (L x W x H)	1.75 x 0.52 x 0.61 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-jack
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

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Technical Data

Connections/interfaces

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.

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	5.5 - 10 mm
Cable sheath diameter	0.22 - 0.39 in.

Cable access/outlet 180°

Reconnectibility yes

Ground connection for cable plugs 2.8 mm/0.11 inch

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
Position/mounting of latch - standard installation position	top
Strain relief	with cable tie, attached to module

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Materials and material properties

Material - Housing	GD-Zn (zinc die-cast)
Material - Housing finish	CuSnZn
Material - Insulation displacement contacts	CuNi2Si
Material - Finish of insulation displacement contacts	Sn (tin)
Material - Contact	Spring steel
Material - Contact finish	Ni + Au (nickel-gold)
Material - Insulating body	PC UL94 V0
Material - Shield	Cu-Ni-Zn (nickel silver)
Material - Stuffer cap	PC UL94 V0

Environmental conditions

Electromagnetic measurement	E ₂
Vibration	50 m/s ²
Shock	250 m/s ²

Certifications

Gost Certification	yes
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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-C
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

Data sheet

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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
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Interference proof

Immunity for industrial environments	DIN EN 61000-6-2:2006-03
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Emission proof

Electromagnetic emission for residential, commercial and light-industrial environments	DIN EN 61000-6-3:2011-09
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Climate tests

	IEC 60512-11
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Classifications

ETIM 5.0	EC001121
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Packing details

Type of packaging	10 pc(s) / box
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Packaging unit - Weight (gram)	234.00 g
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Packaging unit - Weight (pound)	0.52 lb
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Packaging dimension (W x H x D)	250.00 x 105.00 x 89.00 mm
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Packaging dimension (W x H x D)	9.84 x 4.13 x 3.50 in.
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