

## Data sheet

### E-DAT RJ45 field plug short Cat.6 Class E<sub>A</sub>

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P/N

1401400812-E

EAN 4251394609881

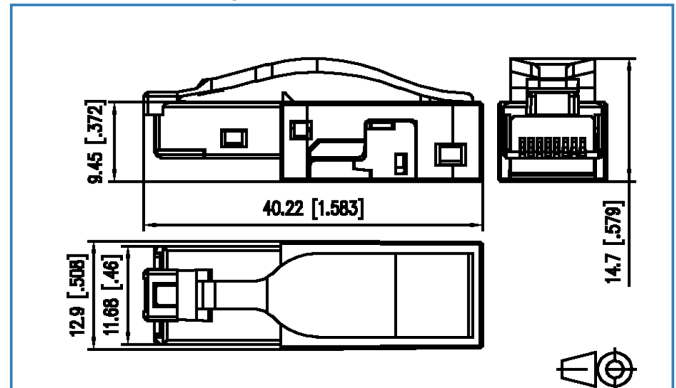
2020/12/01

Version: F

## Illustrations



Dimensional drawing



See enlarged drawings at the end of document

## Product specification

- Cat.6 class E<sub>A</sub> plug to be assembled in the field
- compliance with class E<sub>A</sub> to ISO/IEC 11801 Ed.2.2, 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 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
- with locking lever
- variants: T568A, T568B, Industry



### Technical Data

#### General Data

Fields of application	Industrial Ethernet
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 <sub>A</sub>
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

#### 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

### Technical Data

#### Connections/interfaces

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 <sup>2</sup> - 0.324 mm <sup>2</sup>
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 <sup>2</sup> - 0.355 mm <sup>2</sup>
Conductor diameter, stranded wire (bare copper)	0.483 mm - 0.762 mm
Conductor diameter, stranded wire (bare copper)	0.019 in. - 0.03 in.

Core diameter (min. - max.)

Core diameter (conductor with insulation)	1.6 mm
Core diameter (conductor with insulation)	0.063 in.

Cable sheath diameter (min. - max.)

Cable sheath diameter mm	5.5 mm - 8.50
Cable sheath diameter inch	0.217 in. - 0.335

Cable access/outlet	180°
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#### 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 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 (zinc die-cast)
Material - Housing finish	copper-nickel (Ni-Cu)
Material - Insulation displacement contacts	CuSn (tin bronze)
Material - Finish of insulation displacement contacts	Sn (tin)
Material - Contact	CuSn (tin bronze)



### Technical Data

#### Materials and material properties

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
Material - Finish	Ni (nickel)
RoHS	compliant
REACH - substance (SVHC)	none

#### 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
Electromagnetic measurement	E2
Vibration	50 m/s <sup>2</sup>
Shock	250 m/s <sup>2</sup>

#### Approvals

UL listed (file no.)

DUXR.E178484



#### The product meets the following standards

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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
Expansion of Communication Circuit Accessories (DUXR) Category	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-indus	DIN EN 61000-6-3:2011-09
Climate tests	IEC 60512-11

#### Classifications

ETIM 5.0	EC001121
ETIM 6.0	EC001121
ETIM 7.0	EC001121

#### Packing details

Type of packaging	10 pc(s) / box
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**Illustrations**

Dimensional drawing

