

Data sheet

E-DAT Industry RJ45 plug black Cat.6 Class E_A

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P/N

1401505012-E

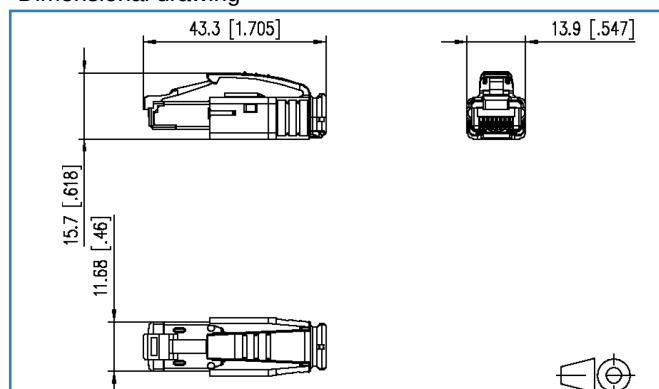
EAN 4250184113799

2015-18-08

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- multi-port Cat.6 class E_A plug
- 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)
- AWG 27/7 - 24/7 and AWG 26/1 - 24/1 connection possible
- solid copper wire diameter from 0.36 to 0.51 mm
- stranded copper wire diameter from 0.46 to 0.61 mm
- conductor diameter from 0.85 to 1.05 mm
- cable jacket up to 7.3 mm can be connected
- connection of crimp contacts and shield in one step using crimping tool
- variants with and without bend protection
- colored bend protection optionally available
- trumpet-shaped bending protection of the connection cable
- can be used as test plug on IP67 protected jacks of variants 1, 4, 5, 6 and 14
- not supplied in partial quantities
- variants: with bend protection / PU: 10 pcs, without bend protection / PU: 100 pcs



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Technical Data

General Data

Fields of application

Industrial Ethernet

Design

Plugs

Shielding

shielded

Transmission technology

Copper

Color

black

Dimensions

Dimension (L x W x H)

43.30 x 13.9 x 15.7 mm

Dimension (L x W x H)

1.70 x 0.55 x 0.62 in.

Multi-port capability

yes

Marking option

by cable boot

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 - 24

Conductor cross section, solid wire

0.128 - 0.205 mm²

Conductor diameter, solid wire (bare copper)

0.409 - 0.511 mm

Conductor diameter, solid wire (bare copper)

0.016 - 0.020 in.



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Connections/interfaces

Termination data, stranded wire (min. - max.)

Conductor cross section, stranded wire	AWG 27 - 24
Conductor cross section, stranded wire	0.111 - 0.227 mm ²
Conductor diameter, stranded wire (bare copper)	0.457 - 0.610 mm
Conductor diameter, stranded wire (bare copper)	0.018 - 0.024 in.

Core diameter (min. - max.)

Core diameter (conductor with insulation)	0.85 - 1.05 mm
Core diameter (conductor with insulation)	0.03 - 0.04 in.

Cable sheath diameter (min. - max.)

Cable sheath diameter	5.5 - 7.30 mm
Cable sheath diameter	0.22 - 0.29 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
Position/mounting of latch - standard installation position	top

Materials and material properties

Material - Housing	PC UL94-V0
Material - Contact	PhBr (phosphor bronze)
Material - Contact finish	Ni + Au (nickel-gold)
Material - Shield	brass
Material - Shield finish	Ni (nickel)
Material - Stuffer cap	PC UL94-V0
Material - Cable boot	PC UL94-V0



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Materials and material properties

Material - Latch Plastics

Environmental conditions

Temperature (min. - max.)

Temperature - Operating °C 70 °C

Temperature - Operating °F 158 °F

Particulate ingress IP2X

Liquid ingress/immersion IPX0

Electromagnetic measurement E₂

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-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

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



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Technical Data

Classifications

ETIM 5.0	EC001121
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Packing details

Type of packaging	10 pc(s) / box
Packaging unit - Weight (gram)	40.00 g
Packaging unit - Weight (pound)	0.09 lb
Packaging dimension (W x H x D)	250.00 x 105.00 x 89.00 mm
Packaging dimension (W x H x D)	9.84 x 4.13 x 3.50 in.



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Accessories

P/N	Designation
1401008201-E	E-DAT Industry IP20 bend protection orange
1401008202-E	E-DAT Industry IP20 bend protection black
1401008203-E	E-DAT Industry IP20 bend protection light gray
1401008204-E	E-DAT Industry IP20 bend protection white
1401008205-E	E-DAT Industry IP20 bend protection yellow
1401008206-E	E-DAT Industry IP20 bend protection blue
1401008207-E	E-DAT Industry IP20 bend protection green



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