Data sheet

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

P/N 1401405012-I

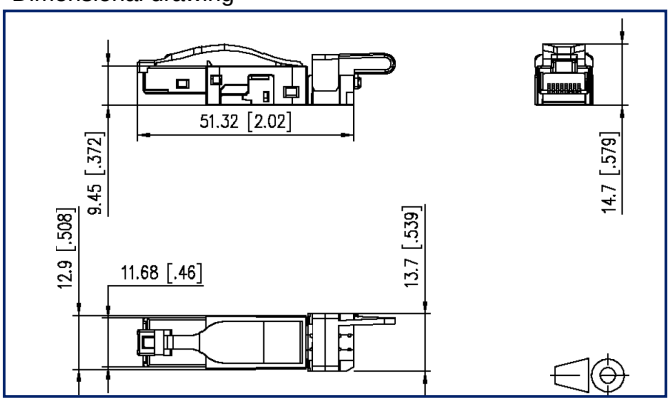
EAN 4250184113881

2025/09/17

Version: AV

Illustrations

Dimensional drawing



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See enlarged drawings at the end of document

Product specification

- multi-port Cat.6 class E_A plug to be assembled in the field
- compliance with class E_A 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
- easy assembly - connection without special tools
- during mounting, the cable is mechanically fastened to the stuffer cap
- easy to actuate strain relief
- strain relief can be snapped on after assembly as color coding
- zinc die-cast housing for industrial use consists of only 2 parts
- protected locking hook
- can be used as test plug on IP67 protected jacks of variants 1, 4, 5, 6 and 14
- variants: T568A, T568B, Industry

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Weitere Dokumentation siehe / additional documentation see / documentation supplémentaire voir www.metz-connect.com

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Technical Data

General Data	
Fields of application	Industrial Ethernet office areas
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	black
Dimensions	
Dimension (L x W x H)	51.32 mm x 12.9 mm x 14.7 mm
Dimension (L x W x H)	2.02 in. x 0.508 in. x 0.579 in.
Field assembly ability	yes
Multi-port capability	yes
Marking option	strain relief

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

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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 mm² - 0.324 mm²
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 mm² - 0.355 mm²
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)	1.6 mm
Core diameter (conductor with insulation)	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°
Reconnectibility	yes, if cross section is greater or the same
Shield connection	flexible contact spring

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
Position/mounting of latch standard installation position	top
strain relief	yes

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 UL 94 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 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

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Environmental conditions		
Vibration	50 m/s²	
Shock	250 m/s²	
Approvals		
UL listed (file no.)	c UL US LISTED	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	IEC 60603-7-51	
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	
ETIM 10.0	EC001121	

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Packing details

Type of packaging	10 pc(s) / box

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

P/N	Designation
1401009101-I	Industry color coding clip field plug orange
1401009103-I	Industry color coding clip field plug light grey
1401009104-I	Industry color coding clip field plug white
1401009105-I	Industry color coding clip field plug yellow
1401009106-I	Industry color coding clip field plug blue
1401009107-I	Industry color coding clip field plug green
1401009108-I	Industry color coding clip field plug red

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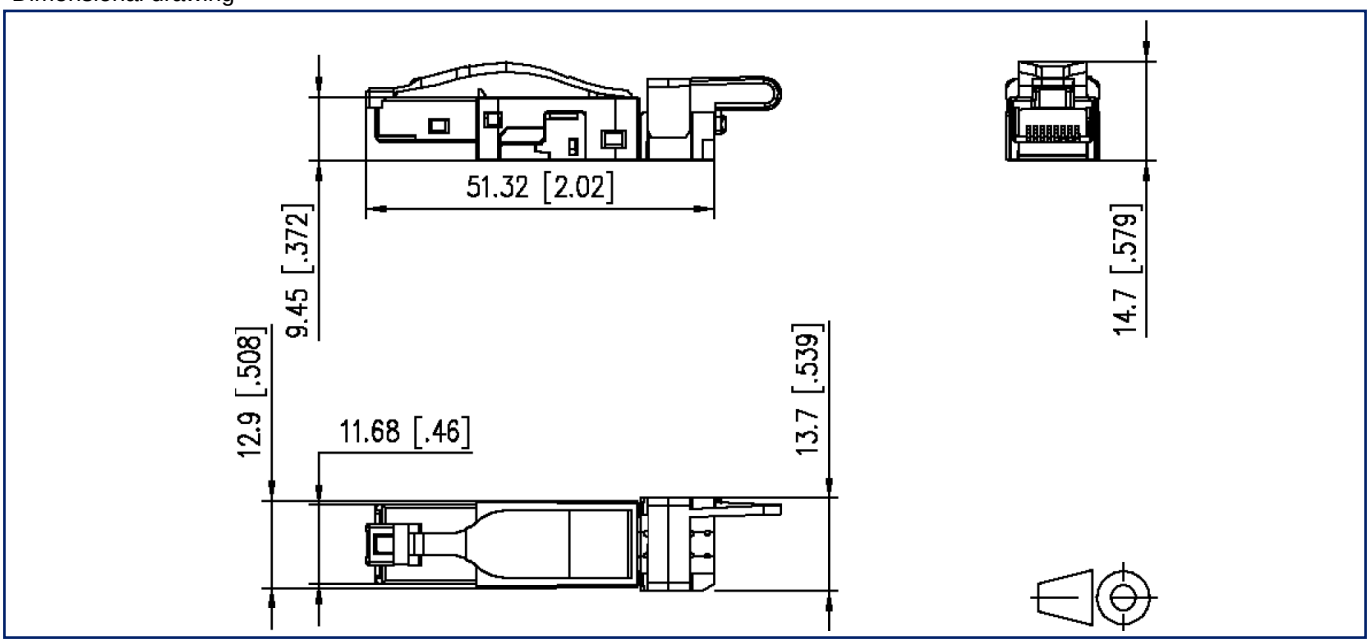

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