

Data sheet

E-DAT Industry RJ45 coupler insert Class E

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P/N

1401200810MI

EAN 4250184114260

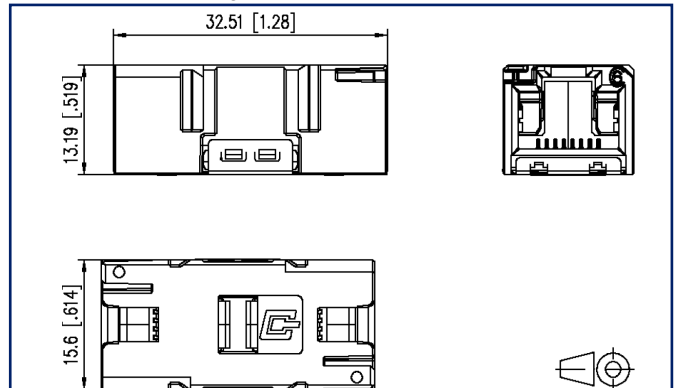
2024/08/16

Version: AR

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- class E RJ45 jack for mounting 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 according to ISO/IEC 11801, DIN EN 50173-1
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, UPoE and) and HDBaseT
- very compact design
- symmetrical structure, can be mounted in any position
- FS 2.8 grounding connection for equipotential bonding at both front ends
- increased resistance to vibrations and shocks due to 4 springs on the shield plates
- solid zinc die-cast housing



Technical Data

General Data

Fields of application	Industrial Ethernet
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	coupler / adapter (FO)
Shielding	shielded
Transmission technology	Copper
Color	metallike
Dimensions	
Dimension (L x W x H)	32.51 mm x 15.6 mm x 13.19 mm
Dimension (L x W x H)	1.28 in. x 0.614 in. x 0.519 in.
Labeling option	on housing

Transmission characteristics

Class (ISO/IEC)	E _A
Remote Powering	yes
PoE	IEEE 802.3af
PoE plus	IEEE 802.3at
UPoE	yes
HDBaseT	yes
Transmission rate up to 10 GBit	IEEE 802.3an

Connections/interfaces

Connector technology interface 1	RJ45-jack
Connector technology interface 2	RJ45-jack
Number of ports interface 1	1
Number of ports interface 2	1
Number of equipped ports interface 1	1
Number of ports interface 2 equipped	1
Number of positions/contacts interface 1	8P/8C
Number of positions/contacts interface 2	8P/8C
Ground connection	for cable plugs 2,8 mm/0,11 inch



Technical Data

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
Transfer-Impedanz bei 1 MHz	< 100 mOhm
Transfer-Impedanz bei 10 MHz	< 200 mOhm
Transfer-Impedanz bei 80 MHz	< 1600 mOhm

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

Materials and material properties

Material - Housing	GD-Zn
Material - Housing finish	copper-nickel (Ni-Cu)
Material - Contact	Spring steel
Material - Contact finish	Ni + Au (nickel-gold)
Material - Insulating body	PC UL94 V0
Material - Shield	CuZnPb (brass)
Material - Shield finish	Sn
Halogen free	yes
Material - Finish	Ni (nickel)
RoHS	compliant



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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	IP6X when plugged in
Liquid ingress/immersion	IPX7 when plugged in
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
Vibration	50 m/s ²
Shock	250 m/s ²

Certifications

3P certificate	yes
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Approvals

UL listed (file no.)		DUXR.E178484
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Standards/Regulations

Generic cabling systems	
General requirements	ISO/IEC 11801-1 DIN EN 50173-1
Office buildings	ISO/IEC 11801-2 DIN EN 50173-2
Industrial area	ISO/IEC 11801-3 DIN EN 50173-3
Living units	ISO/IEC 11801-4 DIN EN 50173-4
Data centers	ISO/IEC 11801-5 DIN EN 50173-5
Distributed building services	ISO/IEC 11801-6 DIN EN 50173-6
Application-specific communications cabling systems	
Profinet	yes
UL standard for Communications-Circuit Accessories	UL 1863

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Standards/Regulations

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 7.0	EC001134
ETIM 8.0	EC001134
ETIM 9.0	EC001134

Packing details

Type of packaging	10 pc(s) / box
Packaging unit - Weight (gram)	311 g
Packaging unit - Weight (pound)	0.69 lb
Packaging dimension	258 mm x 164 mm x 51 mm
Packaging dimension	10.157 in. x 6.457 in. x 2.008 in.

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 from

P/N	Designation
130D2CMC6-E	DCCS2 subassembly 6 port RJ45 - cross connect
130D2CMM6-E	DCCS2 subassembly 6 port RJ45
130D2CMU6-E	DCCS2 subassembly 4 port unequipped for E-DAT Industry inserts
1401010110ME	E-DAT Industry IP67 V1 1 port metal outlet
1401010220ME	E-DAT Industry IP67 V1 2 port metal outlet
1401010620ME	E-DAT Industry IP67 V1 2 port metal surface mount housing
1401013300ME	Industry IP67 V1 metal bulkhead
1401013300ME-F5	Industry IP67 V1 metal bulkhead
1401013302KE	Industry IP67 V1 bulkhead
1401040110ME	E-DAT Industry IP67 V4 1 port metal outlet
1401040220ME	E-DAT Industry IP67 V4 2 port metal outlet
1401040620ME	E-DAT Industry IP67 V4 2 port metal surface mount housing
1401043302KE	Industry IP67 V4 bulkhead
1401060110ME	E-DAT Industry IP67 V5 1 port metal outlet
1401060320ME	E-DAT Industry IP67 V5 2 port metal surface mount housing
1401063300ME	Industry IP67 V5 metal bulkhead
14010833C0MC	E-DAT Industry IP67 V14 mounting flange, central screw mounting
14010833C0MN	E-DAT Industry IP67 V14 mounting flange, normative mounting
1401106113KE	E-DAT Industry terminal rail TS35 + RJ45 field jack insert Cat.6 Class E _A , T568A
1401206113KE	E-DAT Industry terminal rail TS35 + RJ45 coupler insert Cat.6 Class E _A
1401806113KE	E-DAT Industry terminal rail TS35 + RJ45 field jack insert Cat.6 Class E _A , T568B
1401906113KE	E-DAT Industry terminal rail TS35 + RJ45 field jack insert Cat.6 Class E _A , PROFINET
1401U06113KE	E-DAT Industry terminal rail TS35 + E-DAT Industry USB A 2.0 coupler insert
1401U16113KE	E-DAT Industry terminal rail TS35 + E-DAT Industry USB A 3.0 coupler insert
14040000-E	MCO IP69k protective housing for outdoor use, set for exposed installation
14040010-E	MCO IP69k Protective housing for outdoor use, set with mounting bracket
14040100-E	MCO IP69k Protective housing for outdoor use, set wall/ housing bushing

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Accessories from

140UPB-E

E-DAT Industry universal test jack IP65, unequipped



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