P | Cabling

METZ CONNECT
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Data sheet

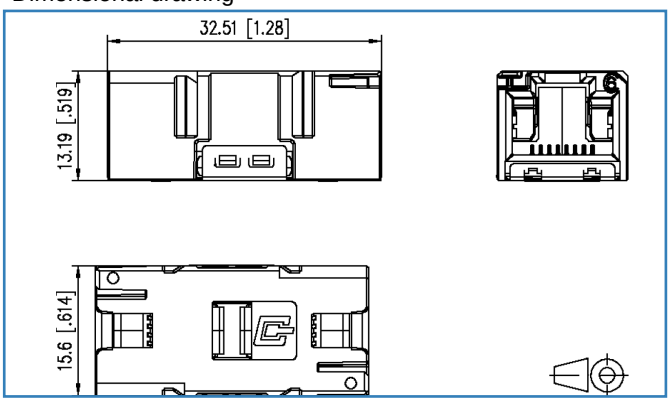
E-DAT Industry RJ45 coupler insert Cat.6 Class E

P/N 1401200810MI
EAN 4250184114260

2017-13-04

Illustrations

Dimensional drawing



See enlarged drawings at the end of document

c UL US LISTED

Product specification

- Cat.6 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 to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) 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

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Technical Data

General Data	
Fields of application	
	Industrial Ethernet
Design	Adapter
Shielding	shielded
Transmission technology	Copper
Color	metallike
Dimensions	
Dimension (L x W x H)	32.51 x 15.60 x 13.19 mm
Dimension (L x W x H)	1.28 x 0.614 x 0.519 in.
Labeling option	on housing

Transmission characteristics	
Category (ISO)	6
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

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

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	GD-Zn (zinc die-cast)
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	CuZn (brass)
Material - Shield finish	Sn (tin)
Material - Finish	Ni (nickel)

Environmental conditions	
Temperature (min. - max.)	
Temperature - Storage °C	-40 - 70 °C
Temperature - Storage °F	-40 - 158 °F
Temperature - Operating °C	-40 - 70 °C
Temperature - Operating °F	-40 - 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

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Environmental conditions	
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	E_2
Vibration	50 m/s²
Shock	250 m/s²

Certifications	
3P certificate	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
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

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The product meets the following standards	
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 5.0	EC001134
ETIM 6.0	EC001134

Packing details	
Type of packaging	10 pc(s) / box
Packaging unit - Weight (gram)	311.00 g
Packaging unit - Weight (pound)	0.69 lb
Packaging dimension (W x H x D)	247.00 x 161.00 x 58.00 mm
Packaging dimension (W x H x D)	9.724 x 6.339 x 2.283 in.

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