METZ CONNECT
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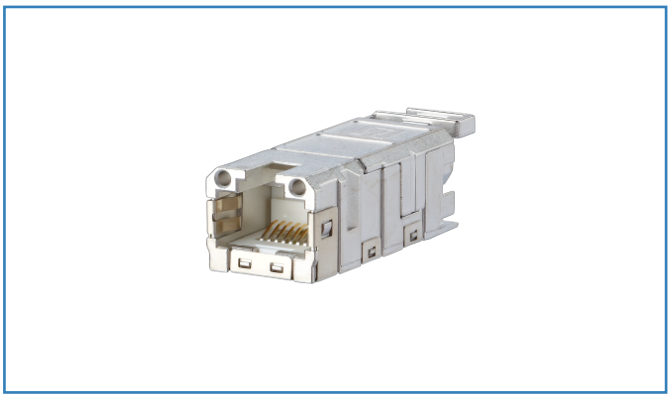
Data sheet

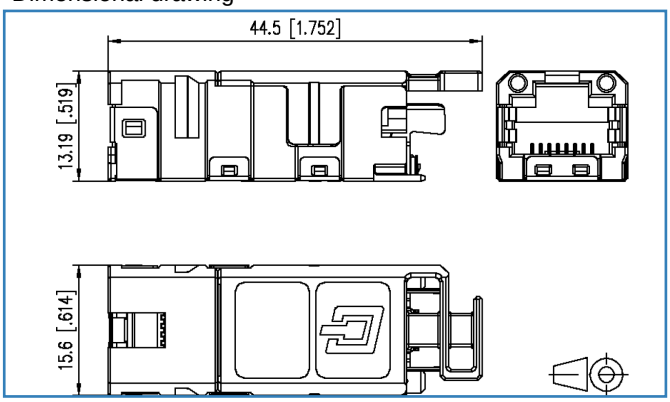
E-DAT Industry RJ45 field jack insert Cat.6 Class E_A, T568B

P/N 1401800810MI
EAN 4250184116578
2019/10/30
Version: AI

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

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Product specification

- RJ45 jack Cat.6 class E_A to be assembled in the field and mounted 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_A 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, UPoE) and HDBaseT
- no special tools required
- AWG 26/7 - 22/7; AWG 26/1 - 22/1 possible
- no protruding contours
- 2 x FS 2.8 mm grounding connection for equipotential bonding at cable end
- increased resistance to vibrations and shocks due to 4 springs on the shield plates
- consists of only 2 parts; easy to assemble
- solid zinc die-cast housing
- can be reconnected easily
- variants: pin assignment to T568A, T568B or PROFINET

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Technical Data

General Data

Fields of application	
	Industrial Ethernet
Design	Jack
Shielding	shielded
Transmission technology	Copper
Wiring	T568B
Color	metallike
Dimensions	
Dimension (L x W x H)	44.5 mm x 15.6 mm x 13.19 mm
Dimension (L x W x H)	1.752 in. x 0.614 in. x 0.519 in.
Field assembly ability	yes
Labeling option	on housing

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
HDBaseT	yes
Transmission rate up to 10 GBit	IEEE 802.3an

Connections/interfaces

Connector technology interface 1	IDC-connection
Connector technology interface 2	RJ45-jack
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

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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 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.
Core diameter (min. - max.)	
Core diameter (conductor with insulation)	0.85 mm - 1.6 mm
Core diameter (conductor with insulation)	0.033 in. - 0.063 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5.5 mm - 10
Cable sheath diameter	0.197 in. - 0.394
Cable access/outlet	180°
Reconnectibility	yes
Ground connection	for cable plugs 2.8 mm/0.11 inch

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
strain relief	with cable tie, attached to module

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Materials and material properties

Material - Housing	GD-Zn (zinc die-cast)
Material - Housing finish	CuSnZn
Material - Insulation displacement contacts	CuNi2Si
Material - Finish of insulation displacement contacts	Sn (tin)
Material - Contact	Spring steel
Material - Contact finish	Ni + Au (nickel-gold)
Material - Shield	Cu-Ni-Zn (nickel silver)
RoHS	compliant

Environmental conditions

Electromagnetic measurement	E2
Vibration	50 m/s²
Shock	250 m/s²

Approvals

UL listed (file no.)	c UL US LISTED	DUXR.E178484

The product meets the following standards

Generic cabling systems	
General requirements	ANSI/TIA-568-C
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	
Expansion of Communication Circuit Accessories (DUXR) Category	UL 1863

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The product meets the following standards

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

Classifications

ETIM 5.0	EC001121
ETIM 6.0	EC001121
ETIM 7.0	EC001121

Packing details

Type of packaging	10 pc(s) / box
Packaging unit - Weight (gram)	234 g
Packaging unit - Weight (pound)	0.52 lb
Packaging dimension	250 mm x 105 mm x 89 mm
Packaging dimension	9.843 in. x 4.134 in. x 3.504 in.

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