

## Data sheet

### E-DAT Industry RJ45 field jack insert Cat.6 Class E<sub>A</sub>, PROFINET

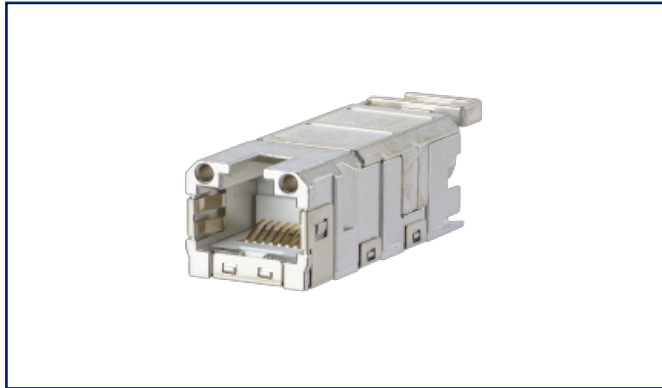
P/N  
1401900810MI

EAN 4250184116561

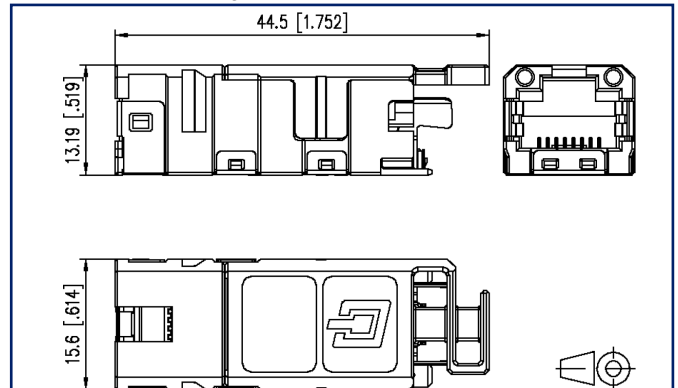
2023/04/05

Version: AJ

## Illustrations



Dimensional drawing



See enlarged drawings at the end of document

## Product specification

- RJ45 jack Cat.6 class E<sub>A</sub> 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<sub>A</sub> according to ISO/IEC 11801, DIN EN 50173-1
- 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



### 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	Jack
Shielding	shielded
Transmission technology	Copper
Wiring	Profinet
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 <sub>A</sub>
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	8P/8C

### Technical Data

Connections/interfaces	
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 mm <sup>2</sup> - 0.324 mm <sup>2</sup>
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 mm <sup>2</sup> - 0.355 mm <sup>2</sup>
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)	0.85 mm - 1.6 mm
Core diameter (conductor with insulation)	0.033 in. - 0.063 in.
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 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	with cable tie, attached to module

### Technical Data

#### 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 - Insulating body	PC UL94 V0
Material - Shield	Cu-Ni-Zn (nickel silver)
Material - Stuffer cap	PC UL94 V0
Material - Strain relief	PA 6.6 UL94 V0
Halogen free	yes
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
Rapid change of temperature	-40°C / -40°F b- +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 <sup>2</sup>
Shock	250 m/s <sup>2</sup>

#### Approvals

UL listed (file no.)



DUXR.E178484

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Standards/Regulations	
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	
Profinet	yes
UL standard for Communications-Circuit Accessories	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
Climate tests	IEC 60512-11
Classifications	
ETIM 5.0	EC001121
ETIM 6.0	EC001121
ETIM 7.0	EC001121
ETIM 8.0	EC001121
ETIM 9.0	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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### Accessories from

P/N	Designation
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
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
140UPB-E	E-DAT Industry universal test jack IP65, unequipped

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