METZ CONNECT
We realize ideas

Data sheet

E-DAT RJ45 field plug short Cat.6 Class E_A

P/N 1401400812-E

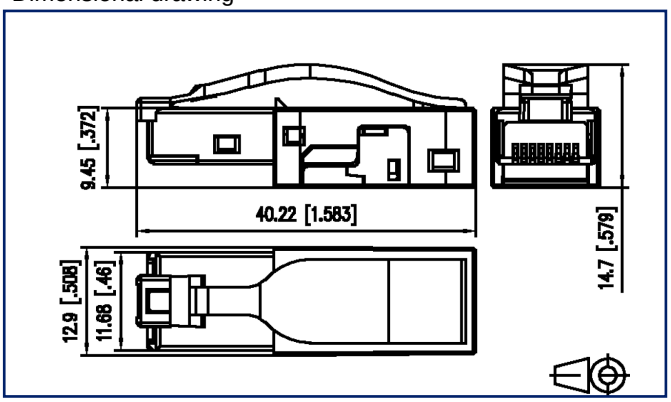
EAN 4251394609881

2023/11/21

Version: K

Illustrations

Dimensional drawing



See enlarged drawings at the end of document

Product specification

- Cat.6 class E_A plug to be assembled in the field
- compliance with class E_A according to ISO/IEC 11801, DIN EN 50173-1
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, UPoE and 4PPoE) and HDBaseT
- 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
- consists of only 2 parts
- easy assembly - connection without special tools
- zinc die-cast housing for industrial use
- with locking lever
- variants: T568A, T568B, Industry

METZ CONNECT GmbH | Im Tal 2 | 78176 Blumberg | Germany
Phone +49 7702 533-0 | Fax +49 7702 533-433

RIA CONNECT BTR NETCOM

Data sheet

E-DAT RJ45 field plug short Cat.6 Class E_A

P/N 1401400812-E

EAN 4251394609881

2023/11/21

Version: K

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	plug
Shielding	shielded
Transmission technology	Copper
Color	metallike
Dimensions	
Dimension (L x W x H)	40.22 mm x 12.9 mm x 14.7 mm
Dimension (L x W x H)	1.583 in. x 0.508 in. x 0.579 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
4PPoE	IEEE 802.3bt
HDBaseT	yes
Transmission rate up to 10 GBit	IEEE 802.3an

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

Data sheet

E-DAT RJ45 field plug short Cat.6 Class E_A

P/N 1401400812-E
EAN 4251394609881
2023/11/21
Version: K

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 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°
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

METZ CONNECT
We realize ideas

Data sheet

E-DAT RJ45 field plug short Cat.6 Class E_A

P/N 1401400812-E
EAN 4251394609881
2023/11/21
Version: K

Technical Data

Materials and material properties	
Material - Housing	GD-Zn (zinc die-cast)
Material - Housing finish	copper-nickel (Ni-Cu)
Material - Insulation displacement contacts	CuSn (tin bronze)
Material - Finish of insulation displacement contacts	Sn (tin)
Material - Contact	CuSn (tin bronze)
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 UL94 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
Vibration	50 m/s²
Shock	250 m/s²

Data sheet

E-DAT RJ45 field plug short Cat.6 Class E_A

P/N 1401400812-E
EAN 4251394609881
2023/11/21
Version: K

Technical Data

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	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

METZ CONNECT
We realize ideas

Data sheet

E-DAT RJ45 field plug short Cat.6 Class E_A

P/N 1401400812-E
EAN 4251394609881
2023/11/21
Version: K

Illustrations

Dimensional drawing