



IC2033 HEMERA

Category 6 RJ45 connector, EA class with locking hook

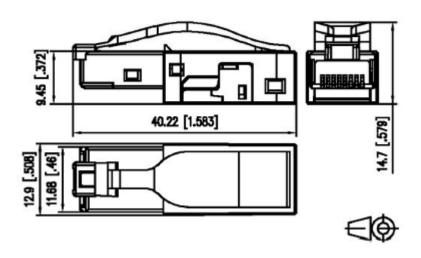
BENEFITS

- Made up of only 2 elements
- Extremely simple assembly: connection without special tools
- Die-cast zinc housing suitable for industrial applications

APPLICATIONS

- Cat6 connector, class EA, to be assembled on site
- Meets the requirements of class EA according to ISO/IEC 11801 ed.2.2:2011-06, DIN EN 50173-
- 1:2011-09
- Suitable for 10GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and
- HDBaseT
- Connection from AWG 26/7 to 22/7; AWG 26/1 to 22/1 possible
- Single stranded wire, copper conductor diameter from 0.4 to 0.64mm
- Stranded wire, copper conductor diameter from 0.48 to 0.76mm
- Maximum strand diameter 1.6mm
- Sheathing from 5.5 to 8.5mm
- With locking hook
- Variants: T568A, T568B, Industry

GENERAL CHARACTERISTICS



GENERAL

General information	
Fields of application	
	Industrial Ethernet
Format	Male connector
Shielding	Shielded
Transmission technology	for Copper
Colour	Metallic
Dimensions	
Dimensions	51.32mm x 12.9mm x 14.7mm
Dimensions	2.02 in. x 0.508 in. x 0.579 in.
Assembly required at site	Yes
Possibility of labeling	On housing

Transmission technology properties	
Category (ISO)	6
Class (ISO/IEC)	EA
Category (TIA)	6
Remote Powering	Yes
PoE	IEEE 802.3:
PoE plus	IEEE 802.3:
UPoE	Yes
HDBaseT	Yes
Transfer rate up to 10 GBit	IEEE 802.3:

Connections/Interfaces		
Interface 1 connection	IDC-connector	
Interface 2 connection	RJ45 connector	
Number of interface ports 2	1	
Number of ports equipped with interface 2	1	
Number of interface positions/contacts 1	8	
Number of interface positions/contacts 2	8P/8C	
Connection values, single strand (min max.)		
Conductor cross-section, single strand (bare copper)	0.128mm² - 0.324mm²	
Conductor diameter, single strand (bare copper)	0.409mm - 0.643mm	
Conductor diameter, single strand (bare copper)	0.016 in. – 0.025 in.	
Connection values, stranded (min max.)		
Conductor cross-section, stranded (bare copper)	0.141mm ² - 0.355mm ²	
Conductor diameter, stranded (bare copper)	0.483mm - 0.762mm	
Conductor diameter, stranded (bare copper)	0.019 in. – 0.03 in.	
Strand diameter (min max.)		
Strand diameter (conductor with insulation)	1.6mm	
Strand diameter (conductor with insulation)	0.063 in.	
Cable sheath diameter (min max.)		
Cable sheath diameter	5.5mm	
Cable sheath diameter	0.217 in.	
Cable angle or reach	180°	

Electrical properties		
Contact resistance	Max. 20 mOhm	
Insulation resistance	Min. 500 MOhm	
Conductor-conductor withstand voltage (secondary)	Min. 1000 V DC	
Conductor-shielding withstand voltage	Min. 1500 V DC	

Mechanical properties		
Mounting type	Joinable	
Insertion and extraction force	Max. 30 N	
Endurance - Number of connection cycles	750V	

Materials and material properties		
Material - Box	GD-Zn (die-cast zinc)	
Materials - Housing, surface	Nickel-copper (Ni-Cu)	
Materials - Insulation displacement (IDC) connectors	CuSn (tin bronze)	
Materials - Surface of IDC	Sn (tin)	
Materials - Contact	CuSn (tin bronze)	
Materials - Contact surface	Ni + Au (nickel + gold)	
Materials - Shielding	Cu-Ni-Zn (Nickel Silver)	
Materials - Surface	Ni (nickel)	
REACH - substance (SVHC)	None	

Temperature (min max.)		
Temperature - Storage °C	-40°C - 70°C	
Temperature - Storage °F	-40°F - 158°F	
Temperature - Service °C	-40°C - 70°C	
Temperature - Service °F	-40°F - 158°F	
Particle penetration	IP2X	
Electromagnetic measurement	E2	
Vibration	50m/s ²	
Impact	250m/s ²	

The product meets the following standards		
Universal building cable		
General requirements	TIA/EIA 568-B.2-10	
Administrative buildings	TIA/EIA 568-C	
Application-specific communication cabling systems		
Profinet	Yes	

Classifications		
ETIM 5.0	EC001121	
ETIM 6.0	EC001121	
ETIM 7.0	EC001121	

Packaging specifications	
Packaging type	Pc(s) / box

RANGE

Name	Reference
RJ45 connector CAT 6 EA class with locking hook	IC2033