IC2033
HEMERA



Category 6 RJ45 connector, EA class with locking hook

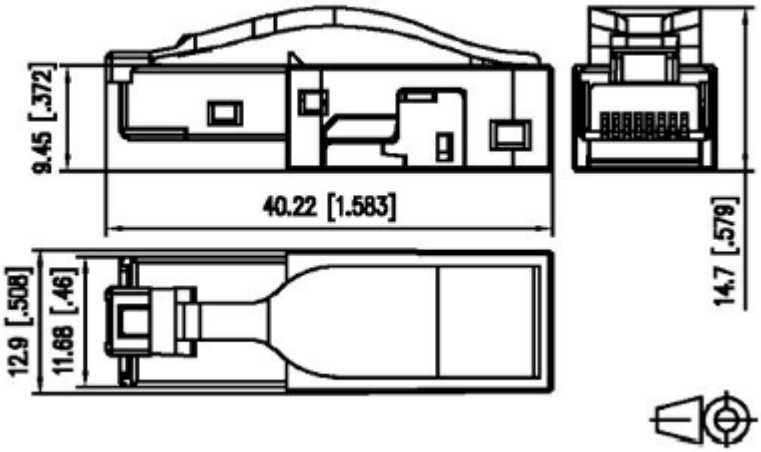
BENEFITS

- 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)	0.141mm² - 0.355mm²
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/s²
Impact	250m/s²

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