Mini-Com® TX6A™ 10Gig UTP Jack Modules with MaTriX Technology

SPECIFICATIONS

Category 6A/Class E_A, 8-position, UTP jack module shall terminate 4-pair, 22 AWG - 26 AWG 100 ohm unshielded twisted pair cable and shall not require a punchdown tool. The termination cap shall be color coded blue to designate.Category 6A performance and shall include a universal label coded for T568A and T568B wiring schemes. The Mini-Com TX6A 10Gig UTP Jack Module must be installed as part of the TX6A 10Gig UTP Copper Cabling System to achieve IEEE 10GBASE-T certified performance.

TECHNICAL INFORMATION

Category 6A/Class E_A channel and component performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E_A Standards swept up to 650 MHz for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the TX6A 10Gig UTP Copper Cabling System
	Exceeds component requirements of ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E_A Standards for supporting 10GBASE-T transmission over twisted-pair cabling systems
FCC and ANSi compliance:	Meets ANSI/TIA-1096-A contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7 and IEC 60512-99-002
RoHS compliance:	Compliant
PoE & PoH compliance:	Meets IEEE 802.3af / 802.3at and 802.3bt type 3 and type 4. Supports Power over HDBaseT up to 100 watts
c(UL)us Listed:	UL 1863 (Use as communications circuit accessory); CSA standard C22.2 UL 2043 (Suitable for use in air-handling spaces)
Conductor termination range:	Wire cap compatible with 22 AWG - 26 AWG solid or stranded cable with conductor insulation diameters of 0.06 in. (1.5mm) max and overall cable O.D. 0.2 in. - 0.33 in. (5.1mm - 8.4mm)
Operating Temperature:	14°F to 167°F (-10°C to 75°C)

KEY FEATURES AND BENEFITS

Interoperable:	Compatible with components of the TX6A 10Gig UTP Copper Cabling System with MaTriX Technology for increased design flexibility
Alien crosstalk suppression:	Innovative MaTriX split foil technology provides superior alien crosstalk performance enabling high density applications
100% performance tested:	Confidence that each jack module will deliver the critical electrical performance requirements
Individually serialized:	Marked with quality control number for future traceability
Shuttered version available:	Integrated spring shuttered door keeps out dust and debris of unmated RJ45 jack modules automatically

APPLICATIONS

Mini-Com TX6A 10Gig UTP Jack Modules are a component of the TX6A 10Gig UTP Copper Cabling System with MaTriX Technology. This end-to-end system provides a cost effective medium for ensuring that network bandwidth needs are easily met today and in the future. This solution helps ensure organizations efficiently and reliably meet their data transmission needs. With certified performance to the ISO 11801 Class E_A, IEEE 802.3an-2006 and ANSI/TIA-568.2-D Category 6A Standards, this system will support high bandwidth applications like 10GBASE-T and HDBaseT and is ideal for running next generation Power over Ethernet (POE++).

Mini-Com TX6A 10Gig UTP Jack Modules with Split Foil MaTriX Technology

Jack module:	CJ6X88TG*
Shuttered jack module:	CJH6X88TG*
Up/Down 45° angle jack module:	CJUD6X88TG*
Left/Right 45° angle jack module:	CJLR6X88TG*

Tools and Accessories

Jack module termination tool:	TGJT or EGJT-1
Wire snipping tool:	CWST
Wire stripping tool:	CJAST
Clear dust cap:	MDC-C
Blockout device:	PSL-DCJB^^^+
Phone icons:	CIPIW-C
Data icons:	CID++-C
Wire cap replacement, pack of 100:	CJ6XCAPBU-X

*Colors: IW (Off White), WH (White), EI (Electric Ivory), IG (International Gray), AW (Arctic White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet)

^^^Colors other than Red: - BL (Black), -BU (Blue), -YL (Yellow), -GR (Green), -OR (Orange), -IW (Off White), or -IG (International Gray)

+Add -C to indicate 100 pieces per bulk pack to reduce single-use plastic

++Colors: WH (White), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange)

-X indicates bulk packages of 10 pieces per pack to reduce single-use plastic

Contact customer service for bulk-packaged and/or keyed jack modules.

ADDITIONAL SPECIFICATIONS

Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	ANSI/TIA-1096-A	Load (grams)	> 100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	< 40
Shock	IEC 512-6c	Contact Disturbance (microsecond)	< 5
Durability	IEC 512-6a	Circuit Resistance (mOhms)	< 20
Mating/Un-mating	IEC 512-6b	Mating Force (N)	
		Un-mating Force (N)	
Termination Cycles	IEC 352	Number of Cycles	> 20
Mating Cycles	IEC 60603-7	Number of Plug Insertions	> 2500

Electrical Test	Test Method	Measurement	Typical Test Results
Low Level Circuit Resistance	IEC 512-2a	Resistance (mOhms)	< 20
Dielectric Withstand Voltage	IEC 512-4a	1000 VAC, 1 minute	Passed
Insulation Resistance	IEC 512-3a	Resistance (MOhms)	> 500

Environmental Test	Test Method	Measurement	Typical Test Results
Temperature Life	IEC 512-9b	Circuit Resistance (mOhms)	< 40
Humidity	IEC 512-11c		
Thermal Shock	IEC 512-11d		
Climatic Sequence	IEC 512-11a		
Flowing Mixed Gas Corrosion	IEC 512-11g		

ENGINEERING DRAWINGS

Jack Module and Standard Wire Cap

0.62 [15.87]

0.71 [18.06]

1.50 [38.15]

Jack Module

Shuttered Jack Module

Angled Wire Cap Jack Module
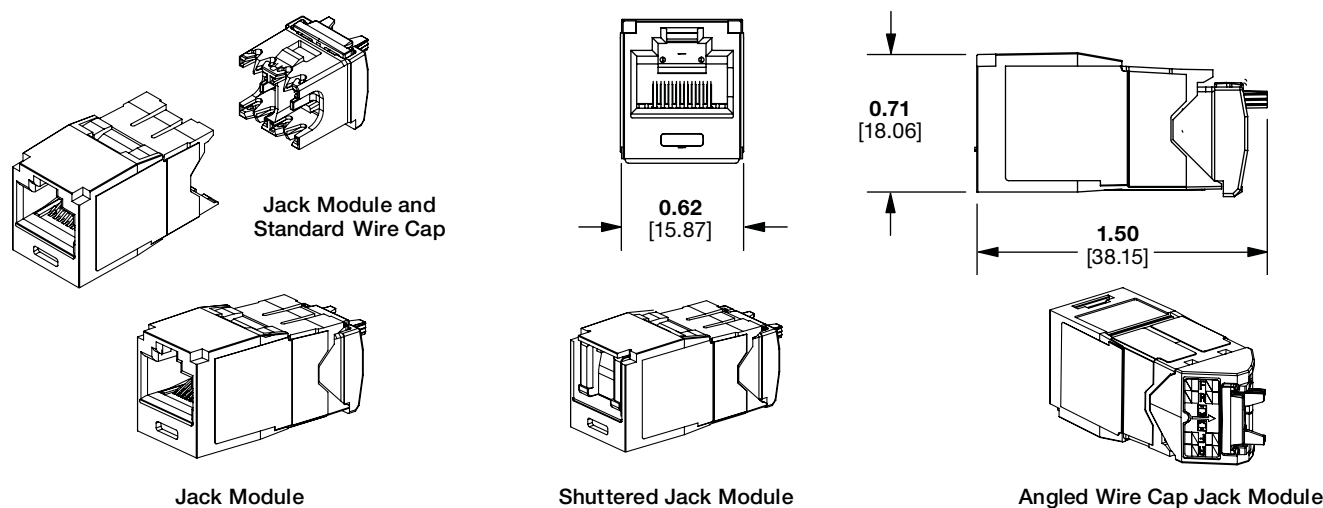
Dimensions are in inches. [Dimensions in brackets are metric].

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