Mini-Com® TX6™ PLUS UTP 28/30 AWG Jack Modules

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6/Class E, 8-position, UTP jack module shall terminate 4-pair, 28 AWG solid/stranded and 30 AWG solid, 100 ohm unshielded twisted pair cable and shall not require a punchdown tool. UTP jack modules shall use a forward motion termination method to optimize performance by maintaining cable pair geometry while eliminating conductor untwist. The termination cap shall be color coded green to designate Category 6 performance and shall include a universal label coded for T568A and T568B wiring schemes.
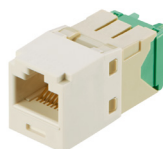
TECHNICAL INFORMATION

Category 6/Class E channel and component performance:	Exceeds channel requirements of ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E standards at swept frequencies 1 to 250 MHz
	Exceeds component requirements of ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E standards at swept frequencies 1 to 250 MHz
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 and 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 28 AWG solid/stranded and 30 AWG solid cable with conductor insulation diameters of 0.025 in. (0.635mm) max. and overall cable O.D. 0.12 in. to 0.185 in (3.048mm to 4.69mm)
Operating temperature:	14° F to 149° F (-10° C to 65° C)

KEY FEATURES AND BENEFITS

100% Performance tested:	Confidence that each jack module will deliver the critical electrical performance requirements
Utilizes enhanced Giga-TX™ Technology:	Optimizes performance by eliminating conductor untwist and reduces installation time and expense
Improved termination cap:	Conductor retention slots simplify jack module termination
Modular:	UTP jack modules snap in and out of all Mini-Com Faceplates, Modular Patch Panels, and Surface Mount Boxes for easy moves, adds, and changes
Individually serialized:	Marked with quality control number for future traceability
RJ45 interface:	Industry standard interface provides a quick and easy plug and play connection to RJ45 patch cords; backwards compatible

APPLICATIONS

Mini-Com TX6 PLUS UTP Jack Modules are a component of the TX6 PLUS UTP Copper Cabling System. This end-to-end system is interoperable and backwards compatible, providing design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E standards, this system is ideal for high performance workstation applications. With certified performance to the ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E standards, these systems will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet)
- Digital video and broadband/baseband analog video
- Voice over Internet Protocol (VoIP)

Mini-Com TX6 PLUS UTP Jack Modules	
Jack Module:	CJT688TG^
Mini-Com Angled Modular Patch Panels	
24-port, 1 RU:	CPPLA24WBLY
48-port, 2 RU:	CPPLA48WBLY
Mini-Com Flat Modular Patch Panels	
24-port, 1 RU:	CPPL24WBLY
48-port, 2 RU:	CPPL48WBLY
Tools and Accessories	
Jack Module Termination Tool:	EGJT-1 or TGJT
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

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

^^Colors other than Off White: BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), 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 bulk package with 100 pieces per pack to reduce single-use plastic

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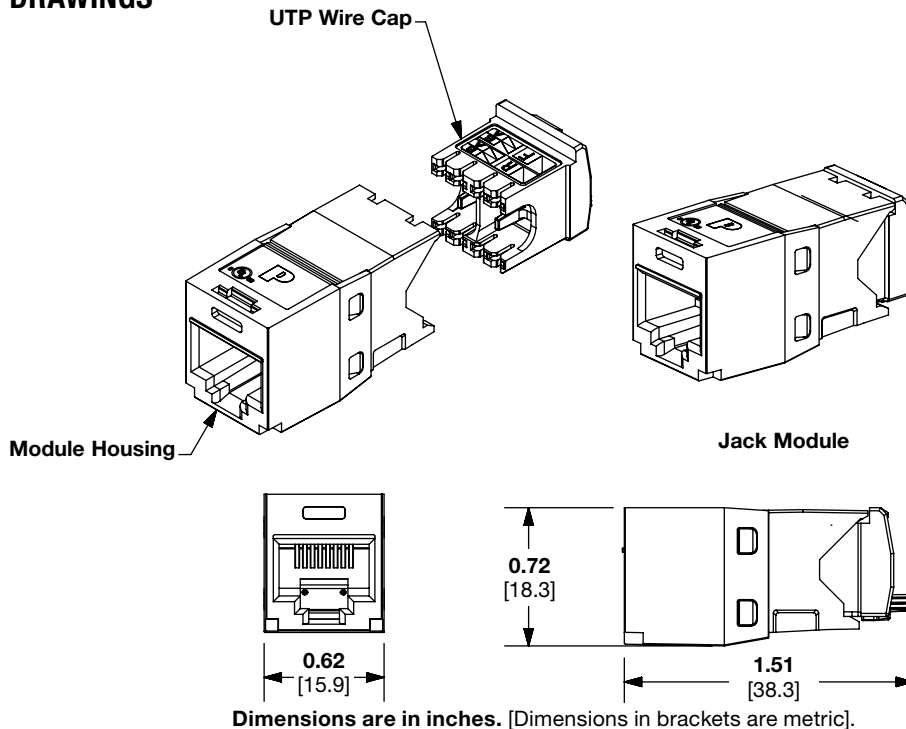
TAA Compliant

All listed part numbers are compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to customers in the United States.

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TEST RESULTS

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 512-9a	Circuit Resistance (mOhms)		< 40
Mating/Un-mating	IEC 512-13b	Mating Force (N)		< 20
		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

UTP Wire Cap

Module Housing

Jack Module

0.72 [18.3]

0.62 [15.9]

1.51 [38.3]

Dimensions are in inches. [Dimensions in brackets are metric].

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

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or by phone: 800.777.3300

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