Mini-Com® TX6™ PLUS UTP Jack Module

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6/Class E, 8-position, UTP jack module shall terminate solid, 4-pair, 24 – 22 AWG, 100 ohm unshielded twisted pair cable and shall not require use of 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 white 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
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
IEC compliance:	Meets IEC 60603-7 and IEC 60512-99-002
RoHS compliance:	Compliant
c(UL)us Listed:	UL 1863 (Use as communications circuit accessory); CSA standard C22.2
Conductor termination range:	Wire cap compatible with 24 – 22 AWG solid cable with conductor insulation diameters of 0.035 in. - 0.048 in. (0.89mm - 1.21mm) and overall cable O.D. 0.200 in. - 0.330 in. (5.08mm - 8.38mm)
Operating temperature:	14°F to 140°F (-10°C to 60°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
True strain relief:	Controls cable bend radius for long term installed performance
Individually serialized RJ45 interface:	Marked with quality control number for future traceability Industry standard interface provides a quick and easy plug and play connection to RJ45 patch cords; backwards compatible with Category 5e

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 today's 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), 1000BASE-T (Gigabit Ethernet)
- Digital video and broadband/baseband analog video
- Voice over Internet Protocol (VoIP)

Mini-Com TX6 PLUS UTP Jack Module	
Jack module:	CJ688TP*
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:	CGJT
Wire snipping tool:	CWST
Jacket stripping tool:	CJAST
Clear dust cap:	MDC-C
Block out device:	PSL-DCJB^+
Phone icons:	CIPIW-C
Data icons:	CID^^-C

*Colors: IW (Off White), EI (Electric Ivory), IG (International Gray), WH (White), 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)

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

+Add -C to indicate bulk packs of 100 pieces to reduce single-use plastic
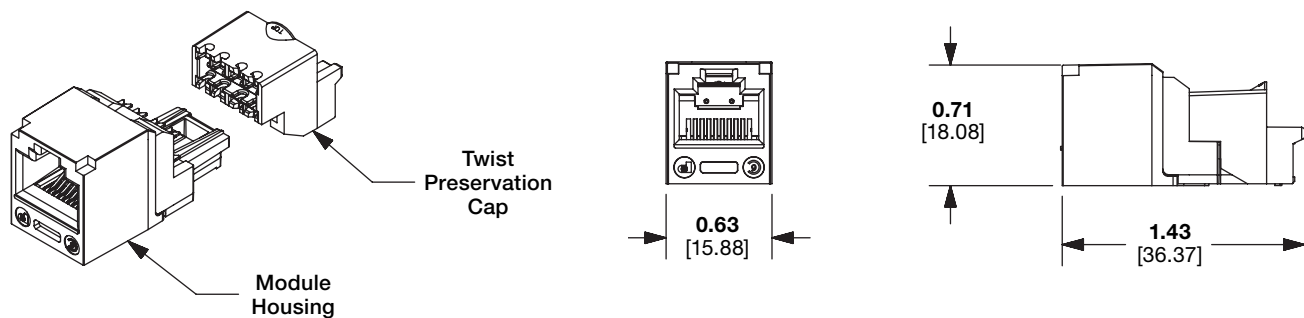
Mini-Com® TX6™ PLUS UTP Jack Module

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 (microseconds)	<5
Durability	IEC 512-9a	Circuit Resistance (mOhms)	<40
Mating/Unmating	IEC 512-13b	Mating Force (N)	<20
		Un-mating Force (N)	
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

Twist Preservation Cap

Module Housing

0.71 [18.08]

0.63 [15.88]

1.43 [36.37]

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

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

For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300