

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-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies 1 to 250 MHz
	Exceeds component requirements of ANSI/TIA-568-C.2 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 compliance:	Rated for 2500 cycles with IEEE 802.3af / 802.3at and proposed 802.3bt type 3 and type 4
IEC compliance:	Meets IEC 60603-7
RoHS compliance:	Compliant
UL rated:	UL 1863 approved
Conductor termination range:	Wire cap compatible with 24 – 22 AWG solid cable with conductor insulation diameters of 0.035 in. to 0.048 in. and overall cable O.D. 0.200 in. to 0.330 in.

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
Identification	Can be clearly identified with optional labels and icons for port identification
Termination tools (optional)	CGJT termination tool ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
Block out device (optional)	Provides a simple and secure method to control access to data ports while not in use

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-C.2 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-C.2 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)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token Ring 4/16
- Digital video and broadband/baseband analog video
- Voice over Internet Protocol (VoIP)

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TX6™ PLUS UTP Copper Cabling System

Mini-Com® TX6™ PLUS UTP Jack Module

Jack module: CJ688TPIW*

TX6000™ UTP Copper Cable

Plenum: PUP6004**
Riser: PUR6004**
LSZH (60332-1): PUL6004**
LSZH (60332-3): PUZ6004**
CM: PUC6004**

TX6™ PLUS UTP Patch Cords

CM (foot lengths): UTPSP^Y
CM (meter lengths): UTPSP^MY
LSZH (meter lengths): UTPSPL^MY

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

For additional modular and punchdown patch panels, visit www.panduit.com.

Tools and Accessories

Jack module
termination tool: CGJT
Wire snipping tool: CWST
Wire snipping tool: CJAST
Clear dust cap: MDC-C
Block out device: PSL-DCJB-^^
Phone icons: CIPIW-C+
Data icons: CIDIW-C+

*To designate color other than IW (Off White), replace IW suffix with EI (Electric Ivory), IG (International Gray), WH (White), AW (Arctic White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), BR (Brown), GD (Gold), LB (Light Blue), PK (Pink), or VL (Violet).

**To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

^For lengths 1 to 20 feet (one foot increments) and 25, 30, 35, 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet). For example, the part number for a blue 15-foot patch cord is UTPSP15BUY.

^^For lengths 1 to 10 meters (one meter increments) and 0.5, 1.5, 2.5, 15, 20, meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet). For example, the part number for a blue 15-meter patch cord is UTPSP15MBUY.

^^^To designate color other than Red, add suffix BL (Black), BU (Blue), YL (Yellow), GR (Green), OR (Orange), IW (Off White) or IG (International Gray) at end of the part number. 10/package.

+To designate color other than IW (Off White), replace IW with EI (Electric Ivory), IG (International Gray), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet) in the part number. 100/package.

Contact customer service for bulk packaged jack modules and patch cords.

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Test Results

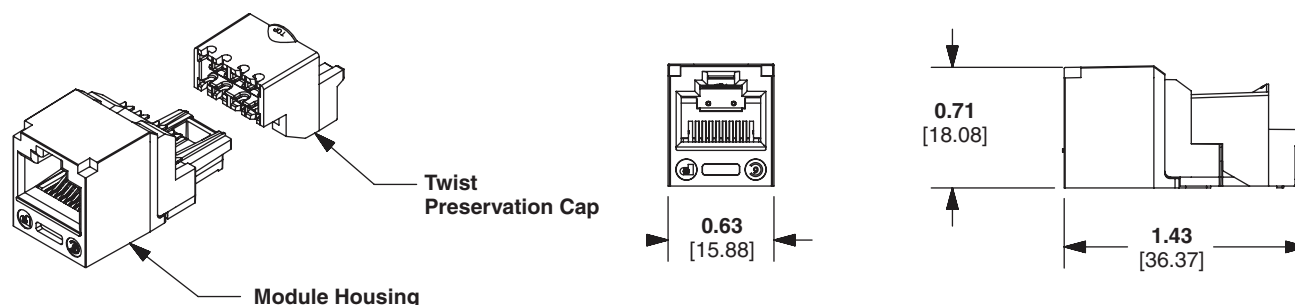
Performance Test	Test Method	Typical Test Results (dB)			
		20 MHz	100 MHz	200 MHz	250 MHz
<i>NEXT</i>	Category 6 ANSI/TIA-568-C.2 Standard	> 68.0	> 54.0	> 48.0	> 46.0
<i>PS NEXT</i>		> 64.0	> 50.0	> 44.0	> 42.0
<i>NEXT</i>		> 57.1	> 43.0	> 37.1	> 35.1
<i>PS NEXT</i>		> 54.1	> 40.1	> 34.1	> 32.2
<i>Attenuation</i>		< 0.10	< 0.21	< 0.28	< 0.32
<i>Return Loss</i>		> 30	> 24.0	> 18.0	> 16.0

Consult technical support for cable brand specific channel test results.

Mechanical Test	Test Method	Measurement	Typical Test Results
<i>Normal Force</i>	—	Load (grams)	>100
<i>Vibration</i>	IEC 512-6d	Circuit Resistance (mOhms)	< 40
<i>Durability</i>	IEC 512-9a	Circuit Resistance (mOhms)	< 40
<i>Mating/Unmating</i>	IEC 512-13b	Mating Force (N)	< 20
		Un-mating Force (N)	< 20

Electrical Test	Test Method	Measurement	Typical Test Results
<i>Low Level Circuit Resistance</i>	IEC 512-2a	Resistance (mOhms)	< 40
<i>Dielectric Withstand Voltage</i>	IEC 512-4a	1000 V, 1 minute	Passed
<i>Insulation Resistance</i>	IEC 512-3a	Resistance (MOhms)	> 500

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



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

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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 and reference COSP235

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