# Mini-Com® TX6™ PLUS UTP Jack Module

**PANDUIT®**

## 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)

**www.panduit.com**

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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.

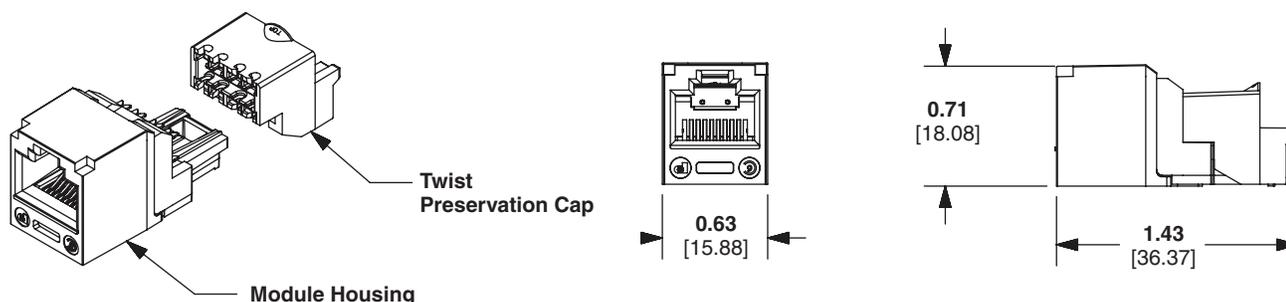Contact customer service for bulk packaged jack modules and patch cords.

## Test Results

| Performance Test | Test Method | Typical Test Results (dB) | | | |
|---|---|---|---|---|---|
| | | 20 MHz | 100 MHz | 200 MHz | 250 MHz |
| *NEXT* | Category 6 ANSI/TIA-568-C.2 Standard | > 68.0 | > 54.0 | > 48.0 | > 46.0 |
| *PS NEXT* | | > 64.0 | > 50.0 | > 44.0 | > 42.0 |
| *NEXT* | | > 57.1 | > 43.0 | > 37.1 | > 35.1 |
| *PS NEXT* | | > 54.1 | > 40.1 | > 34.1 | > 32.2 |
| *Attenuation* | | < 0.10 | < 0.21 | < 0.28 | < 0.32 |
| *Return Loss* | | > 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 |
|---|---|---|---|
| *Normal Force* | — | Load (grams) | >100 |
| *Vibration* | IEC 512-6d | Circuit Resistance (mOhms) | < 40 |
| *Durability* | IEC 512-9a | Circuit Resistance (mOhms) | < 40 |
| *Mating/Unmating* | IEC 512-13b | Mating Force (N) | < 20 |
| | | Un-mating Force (N) | < 20 |

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

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



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].

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