

# Mini-Com® TX6™ PLUS Shielded Jack Modules

## specifications

Category 6/Class E, 8-position, shielded jack module shall terminate 4-pair, 22 – 26 AWG, 100 ohm shielded twisted pair cable and shall not require use of a punchdown tool. Shielded 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

|                                        |                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Category 6/Class E performance:</b> | Exceeds ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E channel requirements at swept frequencies up to 250 MHz<br>Meets ANSI/TIA-568-C.2 and ISO 11801 Category 6 component requirements at swept frequencies up to 250 MHz                                                                                         |
| <b>FCC compliance:</b>                 | Complies with ANSI/TIA-1096A (formerly FCC Part 68); contacts plated with 50 microinches of gold                                                                                                                                                                                                                       |
| <b>IEC compliance:</b>                 | Meets IEC 60603-7 and IEC 60512-99-001                                                                                                                                                                                                                                                                                 |
| <b>PoE compliance:</b>                 | Rated for 2500 cycles with IEEE 802.3af / 802.3at and proposed 802.3bt type 3 and type 4 for up to 100W                                                                                                                                                                                                                |
| <b>c(UL)us Listed:</b>                 | UL 1863, UL 1863 (Use as communications circuit accessory), CSA standard C22.2 UL 2043 (Suitable for use in air-handling spaces)                                                                                                                                                                                       |
| <b>Operating temperature:</b>          | -10° C to 65° C (14°F to 149°F)                                                                                                                                                                                                                                                                                        |
| <b>RoHS compliance:</b>                | Compliant                                                                                                                                                                                                                                                                                                              |
| <b>Conductor termination range:</b>    | Wire cap compatible with 22 – 26 AWG solid or stranded cable with conductor insulation diameters of 0.060 in. max and overall cable O.D. 0.200 in. to 0.330 in.; marine jack module wire cap compatible with 22 AWG solid or stranded cable with 0.071 in. (1.80mm) maximum insulated conductor outside diameter cable |

## key features and benefits

|                                              |                                                                                                                                                                                                                                                        |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>100% performance tested</b>               | Confidence that each jack module will deliver the critical electrical performance requirements                                                                                                                                                         |
| <b>Utilizes enhanced Giga-TX™ Technology</b> | Optimizes performance by eliminating conductor untwist and reduces installation time and expense                                                                                                                                                       |
| <b>Improved termination cap</b>              | Conductor retention slots simplify jack module termination                                                                                                                                                                                             |
| <b>Integral shield</b>                       | Provides a 360° conductive path to ground shielded jack module with no additional assembly required                                                                                                                                                    |
| <b>Snap in grounding</b>                     | Shield provides seamless bonding of the jack module with Mini-Com® All Metal Modular Patch Panels                                                                                                                                                      |
| <b>Modular</b>                               | Shielded jack modules snap in and out of all Mini-Com® Faceplates, Metal Modular Patch Panels, and Surface Mount Boxes for easy moves, adds, and changes                                                                                               |
| <b>Individually serialized</b>               | Marked with quality control number for future traceability                                                                                                                                                                                             |
| <b>Identification</b>                        | Can be clearly identified with optional labels and icons for port identification                                                                                                                                                                       |
| <b>Shuttered version (optional):</b>         | Integrated spring shuttered door keeps out dust and debris of un-mated RJ45 jack modules automatically                                                                                                                                                 |
| <b>Marine compatible version available</b>   | Terminates to TX6000™ Shielded S/FTP Marine Copper Cable, which includes a durable flame-, oil-, UV- and MUD-resistant cable jacket; ideal for use in harsh environments encountered in marine applications including ship and offshore/ onshore units |
| <b>Termination tools (optional)</b>          | EGJT termination tool ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability; TGJT termination tool ideal for high volume installations                   |
| <b>Block out device (optional)</b>           | Provides a simple and secure method to control access to data ports while not in use                                                                                                                                                                   |

## applications

Mini-Com® TX6™ PLUS Shielded Jack Modules are a component of the TX6000™ Shielded 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)

# PANDUIT®

## SPECIFICATION SHEET

### TX6™ PLUS Shielded Copper Cabling System

#### Mini-Com® TX6™ PLUS Shielded Jack Modules

|                               |             |
|-------------------------------|-------------|
| <b>Jack module:</b>           | CJS688TG*Y  |
| <b>Shuttered jack module:</b> | CJSH688TG*Y |
| <b>Marine jack module:</b>    | CJSM688TG†  |

#### TX6™ Shielded Copper Cable

|                      |               |
|----------------------|---------------|
| <b>CM, F/UTP:</b>    | PFC6004***-KD |
| <b>LSZH, F/UTP:</b>  | PFL6004*-KD   |
| <b>LSZH, SF/UTP:</b> | PSFL6004*-KD  |

#### TX6000™ Shielded S/FTP Marine Copper Cable

|              |                |
|--------------|----------------|
| <b>LSZH:</b> | PSM6004BU**LED |
|--------------|----------------|

#### TX6A™ 10Gig™ Shielded CM/LSZH Patch Cords

|                       |           |
|-----------------------|-----------|
| <b>Foot lengths:</b>  | STP6X*IG  |
| <b>Meter lengths:</b> | STP6X*MIG |

#### Mini-Com® Angled All Metal Modular Patch Panels

|                       |          |
|-----------------------|----------|
| <b>24-port, 1 RU:</b> | CPA24BLY |
| <b>48-port, 2 RU:</b> | CPA48BLY |
| <b>72-port, 2 RU:</b> | CPA72BLY |

#### Mini-Com® Flat All Metal Modular Patch Panels

|                       |         |
|-----------------------|---------|
| <b>24-port, 1 RU:</b> | CP24BLY |
| <b>48-port, 2 RU:</b> | CP48BLY |
| <b>72-port, 2 RU:</b> | CP72BLY |

#### Tools and Accessories

|                                      |              |
|--------------------------------------|--------------|
| <b>Jack module termination tool:</b> | EGJT or TGJT |
| <b>Wire snipping tool:</b>           | CWST         |
| <b>Wire stripping tool:</b>          | CJAST        |
| <b>Clear dust cap:</b>               | MDC-C        |
| <b>Block out device:</b>             | PSL-DCJB-*** |
| <b>Phone icons:</b>                  | CPIW-C+      |
| <b>Data icons:</b>                   | CIDIW-C+     |

\*To designate color, add BU (Blue), RD (Red), YL (Yellow), GR (Green) or VL (Violet). For part number CJS688TGY (no designation), the color is black.

†Offered in black only.

\*\*\*To designate color, add suffix IG (International Gray) or LG (Light Gray).

\*To designate color, add suffix WH (White) or DG (Dark Gray).

\*\*To designate color, add suffix BL (Black) or IG (International Gray). For other cable colors, contact customer service.

†For lengths 3 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 IG (International Gray), substitute the IG suffix with 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 STP6X15BU.

\*\*For lengths 1 to 10 meters (one meter increments) and 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 IG (International Gray), substitute the IG suffix with 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 STP6X15MBU.

\*\*\*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 the end of the part number. 10/package.

Contact customer service for bulk packaged and/or keyed jack modules and patch cords. Panduit recommends installing shielded jack modules in Mini-Com® All Metal Modular Patch Panels.

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# Mini-Com® TX6™ PLUS Shielded Jack Modules

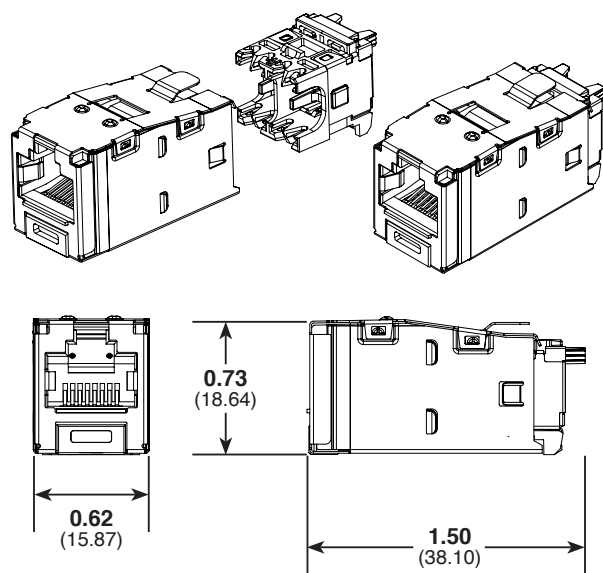
## Test Results

| Mechanical Test    | Test Method | Measurement                       | Typical Test Results |
|--------------------|-------------|-----------------------------------|----------------------|
| Normal Force       | —           | 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)               | < 20                 |
| Termination Cycles | IEC 352     | Number of Cycles                  | > 20                 |
| Mating Cycles      | IEC 60603-7 | Number of Plug Insertions         | > 2500               |

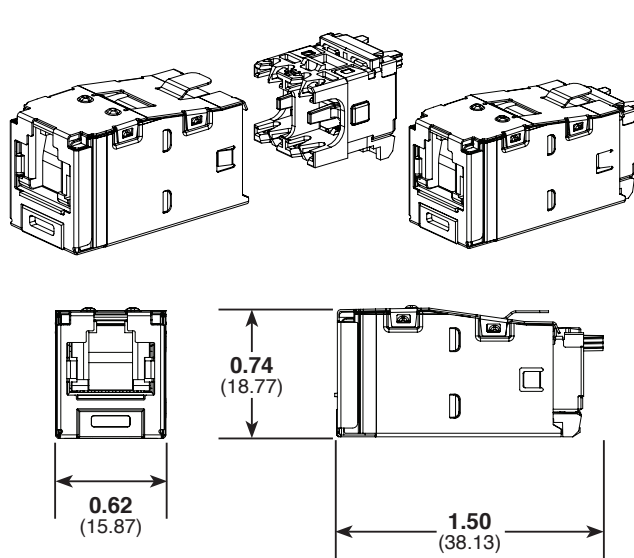
| Electrical Test              | Test Method | Measurement        | Typical Test Results |
|------------------------------|-------------|--------------------|----------------------|
| Low Level Circuit Resistance | IEC 512-2a  | Resistance (mOhms) | < 20                 |
| Dielectric Withstand Voltage | IEC 512-4a  | 1000 V, 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 | 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                 |

### Shielded Jack Module and Standard



### Shuttered Shielded Jack Module and



Dimensions are in inches (Dimensions in parenthesis are metric)

#### WORLDWIDE SUBSIDIARIES AND SALES OFFICES

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