Mini-Com® TX6A™ 10Gig™ Shielded Jack Modules

PANDUIT®

SPECIFICATION SHEET

specifications

Category 6A/Class E_A, 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 blue to designate Category 6A performance and shall include a universal label coded for T568A and T568B wiring schemes. The Mini-Com® TX6A™ 10Gig™ Shielded Jack Module must be installed as part of the TX6A™ 10Gig™ Shielded Copper Cabling System to achieve IEEE 10GBASE-T certified performance.

technical information

Category 6A/Class E_A performance:	Exceeds ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E_A channel requirements for supporting 10GBASE-T transmission over twisted pair cabling systems in a 4-connector configuration up to 100 meters at swept frequencies 1 to 500 MHz Meets ANSI/TIA-568-C.2 and ISO 11801 Category 6A component requirements at swept frequencies up to 500 MHz
FCC compliance:	Complies with ANSI/TIA-1096A (formerly FCC Part 68); contacts plated with 50 microinches of gold
IEC compliance:	Meets IEC 60603-7 and IEC 60512-99-001
Operating temperature:	-10° C to 65° C (14° F to 149° F)
PoE compliance:	Rated for 2500 cycles with IEEE 802.3af / 802.3at and proposed 802.3bt type 3 and type 4 for up to 100W
UL Listed:	UL 1863 (Use as communications circuit accessory) UL 2043 (Suitable for use in air-handling spaces)
RoHS compliance:	Compliant
Conductor termination range:	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

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
Integral shield	Provides a 360° conductive path to ground shielded jack module with no additional assembly required
Snap in grounding	Shield provides seamless bonding of the jack module with Mini-Com® All Metal Modular Patch Panels
Modular	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
Individually serialized	Marked with quality control number for future traceability
Identification	Can be clearly identified with optional labels and icons for port identification
High density	Able to support 48 ports in 1RU density
Shuttered version (optional):	Integrated spring shuttered door keeps out dust and debris of un-mated RJ45 jack modules automatically
Marine compatible version available	Terminates to TX7000™ Shielded MUD-Resistant Marine Copper Cable (S/FTP), 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
Termination tools (optional)	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
Block out device (optional)	Provides a simple and secure method to control access to data ports while not in use
Grounding availability	Able to ground anywhere. For grounding shielded jack modules not installed in a Mini-Com® All Metal Modular Patch Panel, use the shielded jack module grounding kit, part number CJSGK-XY

applications

Mini-Com® TX6A™ 10Gig™ Shielded Jack Modules are a component of the TX6A™ 10Gig™ Shielded Copper Cabling System. This end-to-end system provides a cost effective medium for ensuring that network bandwidth needs are easily met today and tomorrow. This shielded system provides high performance, excellent EMI suppression and aids in secure data transmission. The Panduit solution helps ensure organizations efficiently and reliably meet their data transmission needs. With certified performance to the ISO 11801 Class E_A, IEEE 802.3an-2006 and ANSI/TIA-568-C.2 Category 6A standards, this system will support high bandwidth applications with data centers and connections to high end workstations such as stacking switches and switch-to-switch links, storage area networks, aggregation of Gigabit Ethernet channels, real-time intensive financial transactions, streaming video, animation, scientific modeling and medical imaging.

TX6A™ 10Gig™ Shielded Copper Cabling System	
Mini-Com® TX6A™ 10Gig™ Shielded Jack Modules	
Jack module:	CJS6X88TG*Y
Shuttered jack module:	CJSH6X88TG*Y
Marine jack module:	CJSM6X88TGY‡
TX6A™ 10Gig™ Shielded Copper Cable ‡‡	
LSZH, U/FTP:	PUFL6X04***-KD
LSZH, F/UTP:	PFL6X04***-CEG
LSZH-3, F/UTP:	PFZ6X04***-CEG
Plenum, F/UTP:	PFP6X04***-UG
Riser, U/FTP:	PUFR6X04***-UG
TX6A™ 10Gig™ Shielded Patch Cords	
Foot lengths:	STP6X^IG
Meter lengths:	STP6X^^MIG
Mini-Com® Angled Shielded Modular Patch Panels	
24-port, 1 RU:	CPA24BLY
48-port, 1 RU:	CPA48HDBL
48-port, 2 RU:	CPA48BLY
72-port, 2 RU:	CPA72BLY
Mini-Com® Flat Shielded Modular Patch Panels	
24-port, 1 RU:	CP24BLY
48-port, 1 RU:	CP48HDBL
48-port, 2 RU:	CP48BLY
72-port, 2 RU:	CP72BLY
Tools and Accessories	
Jack module termination tool:	EGJT or TGJT
Wire snipping tool:	CWST
Wire stripping tool:	CJAST
Clear dust cap:	MDC-C
Block out device:	PSL-DCJB-^^^
Phone icons:	CIPIW-C++
Data icons:	CIDIW-C++

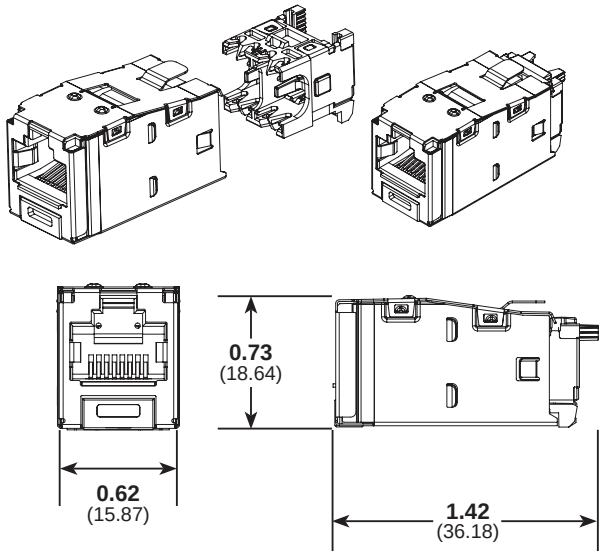
*To designate color, add BU (Blue), RD (Red), YL (Yellow), GR (Green) or VL (Violet). For part number CJS6X88TGY (no designation), the color is black.
**To designate color, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), or OR (Orange). Each color representing a different keyed configuration.
‡Offered in black only.
***To designate color, add suffix BU (Blue) or WH (White). For additional 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.
++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.
‡‡Note: Other cable shielding types are available. Contact customer service for more information.
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.

Mini-Com® TX6A™ 10Gig™Shielded Jack Modules

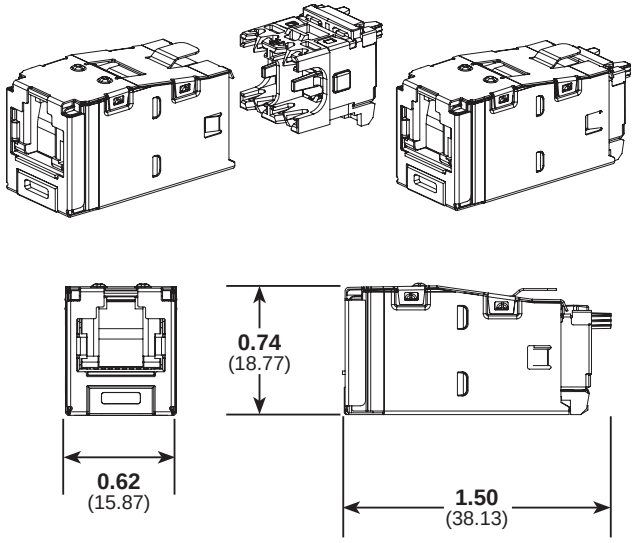
Test Results

Mechanical Test	Test Method	Measurement	Test Results
Normal Force	–	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/Un-mating	IEC 512-3b	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**	**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
Electrical Test	**Test Method**	**Measurement**	**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 Wire Cap



Shuttered Shielded Jack Module and Standard Wire Cap



Dimensions are in inches (Dimensions in parenthesis are metric)

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