

Mini-Com® TX6A™ 10Gig Corrosive Resistant UTP Jack Modules with MaTriX Technology

specifications

Category 6A/Class E_A, 8-position, UTP jack module shall terminate 4-pair, 22 – 26 AWG, 100 Ohm unshielded twisted pair cable and shall not require use of a punchdown tool. Polymer based gel shall protect electrical contacts and internal components by reducing the ingress of moisture and other corrosive elements such as salt, providing improved long term performance. 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 Corrosive Resistant UTP Jack Module must be installed as part of the TX6A™ 10Gig UTP Copper Cabling System to achieve IEEE 10GBASE-T certified performance.



applications

Mini-Com® TX6A™ 10Gig Corrosive Resistant UTP Jack Modules are a component of the TX6A™ 10Gig UTP Copper Cabling System with MaTriX Technology. This end-to-end system provides a cost effective medium for ensuring that network bandwidth needs are easily met today and in the future. 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-568.2-D Category 6A standards, this system will support high bandwidth applications like 10GBASE-T and HDBaseT and is ideal for running next generation Power over Ethernet (POE++).

technical information

Category 6A/Class E_A performance:	Exceeds ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E _A Channel performance requirements. Meets or exceeds TIA Modular Plug Terminated Link requirements.
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7 and IEC 60512-99-001.
RoHS compliance:	Compliant
PoE & PoH compliance:	Rated for 5 cycles with IEEE 802.3af / 802.3at and 802.3bt type 3 and type 4. Supports Power over HDBaseT up to 100 watts.
UL rated:	UL 1863 (Use as communications circuit accessory)
Operating Temperature:	-10°C to 75°C (14°F to 167°F)
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.

key features and benefits

Polymer based gel	Protects electrical contacts and internal components by reducing the ingress of moisture and other corrosive elements such as salt, providing improved long term performance; operation life 5+ insertions
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.
Alien crosstalk suppression	Innovative MaTriX split foil technology provides superior alien crosstalk performance enabling high density applications (48-ports, 1 RU)
100% performance tested	Confidence that each jack module will deliver the critical electrical performance requirements
Individually serialized	Marked with quality control number for future traceability
Termination tools (optional)	EGJT-1 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

Mini-Com® TX6A™ 10Gig Corrosive Resistant UTP Jack Modules with MaTriX Technology

Jack module: CJE6X88TG*

Tools and Accessories

Jack module termination tool:	TGJT or EGJT-1
Wire snipping tool:	CWST
Wire stripping tool:	CJAST
Clear dust cap:	MDC-C
Phone icons:	CIPIW-C+
Data icons:	CIDIW-C+

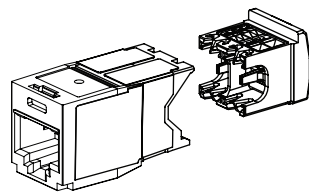
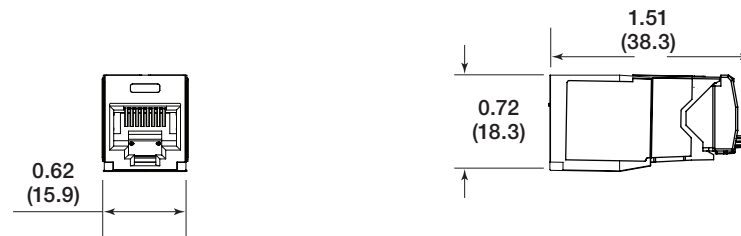
*To designate color, add suffix IW (Off White), BL (Black), BU (Blue), RD (Red).
+To designate color other than IW (Off White), replace IW with EI (Electric Ivory), IG (International Gray), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet) in the part number. 100/package.

Mini-Com® TX6A™ 10Gig Corrosive Resistant UTP Jack Modules with MaTriX Technology

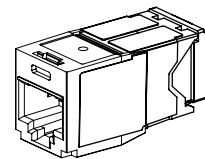
Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	—	Load (grams)	> 100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	< 40
Shock	IEC 512-6c	Contact Disturbance (microsecond)	< 5
Durability	IEC 512-6a	Circuit Resistance (mOhms)	< 20
Mating/Un-mating	IEC 512-6b	Mating Force (N)	< 20
		Un-mating Force (N)	< 20
Termination Cycles	IEC 352	Number of Cycles	> 3
Mating Cycles	IEC 60603-7	Number of Plug Insertions	> 5

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



Jack Module and Standard Wire Cap



Jack Module

Dimensions are in inches. (Dimensions in parenthesis are metric).

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
Phone: 61.3.9794.9020

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

PANDUIT®

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

© 2022 Panduit Corp.
ALL RIGHTS RESERVED.
COSP231--WW-ENG
Replaces WW-COSP196
3/2022