# Mini-Com $^{\ensuremath{\otimes}}$ TX6A $^{\ensuremath{\wedge}}$ 10Gig $^{\ensuremath{\vee}}$ 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. UTP jack modules shall use a forward motion termination method to optimize performance by maintaining cable pair geometry while eliminating conductor untwist. The patent pending matrix split foil tape shall suppress the effects of alien crosstalk, allowing 10 Gb/s transmission even in high density 48-port, 1RU patch panels. 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<sup>®</sup> TX6A<sup>™</sup> 10Gig<sup>™</sup> UTP Jack Module must be installed as part of the TX6A<sup>™</sup> 10Gig<sup>™</sup> UTP Capher Cabling System to achieve IEEE 10GBASE-T certified performance.



### technical information

Category 6A/Class E <sub>A</sub> channel and component performance:	Exceeds channel requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E <sub>A</sub> standards 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
	Exceeds component requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class $\rm E_A$ standards at swept frequencies 1 to 500 MHz
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
RoHS compliance:	Compliant
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
UL rated:	UL1863 approved
Headroom warranty:	Guaranteed performance beyond the standard when a complete end-to-end TX6A <sup>™</sup> 10Gig <sup>™</sup> UTP Copper Cabling System is installed by a Panduit certified installer
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

Interoperable	Compatible with components of the TX6A <sup>™</sup> and TX6A-SD <sup>™</sup> 10Gig <sup>™</sup> UTP Copper Cabling System with MaTriX Technology (100 and 70 meter solutions) for increased design flexibility
Alien crosstalk suppression	Innovative MaTriX split foil technology provides superior alien crosstalk performance enabling high density applications (48-ports, 1 RU)
Advanced electrical compensation technology	Headroom over industry standards for lower risk and higher bandwidth network availability
100% performance tested	Confidence that each jack module will deliver the critical electrical performance requirements
Superior headroom warranty	Provides the highest margins above the industry standard for both electrical and alien crosstalk performance
Utilizes enhanced Giga-TX™ Technology	Optimizes performance by eliminating conductor untwist and reduces installation time and expense
Utilizes Flex technology	Shortens the tuning length of the jack module enabling higher performance
Improved termination cap	Conductor retention slots simplify jack module termination
Modular	UTP jack modules snap in and out of all Mini-Com <sup>®</sup> 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	Marked with quality control number for future traceability
RJ45 interface	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
Shuttered version available	Integrated shuttered door keeps out dust and debris of unmated RJ45 jack modules
Keyed version available	Color-specific keys with positive and negative keying features mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed modular plugs, offering network design flexibility, versatility, accommodating discrete networks for enhanced security
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

#### applications

Mini-Com<sup>®</sup> TX6A<sup>™</sup> 10Gig<sup>™</sup> UTP Jack Modules are a component of the TX6A<sup>™</sup> 10Gig<sup>™</sup> 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<sub>A</sub> Edition 2.1, 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.



Technolog

with MaTriX

UTP Copper Cabling System

Mini Com® TVCA™ 100	
with Split Foil MaTriX T	ig <sup>™</sup> UTP Jack Modules echnology
Jack module:	CJ6X88TG*
Shuttered jack module:	
Keyed jack module:	CJK6X88TG**
TX6A <sup>™</sup> 10Gig <sup>™</sup> UTP Co MaTriX Technology (10	pper Cable with 0 Meter Solution)
Plenum:	PUP6A04***-UG
Riser:	PUR6A04***-UG1
LSZH (60332-1):	PUL6A04***-+G
LSZH (60332-3):	PUZ6A04***-EG
	PUC6A04***-+G
TX6A-SD <sup>™</sup> 10Gig <sup>™</sup> UTF MaTriX Technology (70	Meter Solution)
Plenum:	PUP6ASD04***-UG
Riser: LSZH:	PUR6ASD04***-CG <sup>2</sup>
см:	PUL6ASD04‡-EG PUC6ASD04‡-EG
TX6A™ 10Gig™ UTP Pa	•
MaTriX Technology (100	
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CM (meter lengths): LSZH (meter lengths):	UTP6ASD^^MBU UTP6ASDL^^M
Mini-Com <sup>®</sup> Angled Mod	lular Patch Panels
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	CPPLA72WBLY
Mini-Com® Flat Modula	r Patch Panels
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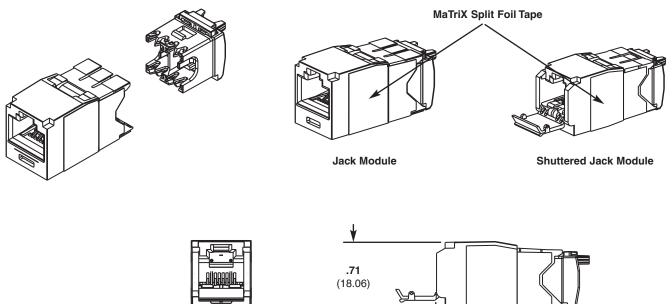
# Mini-Com® TX6A<sup>™</sup> 10Gig<sup>™</sup> UTP Jack Modules with MaTriX Technology

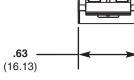
#### Test Results

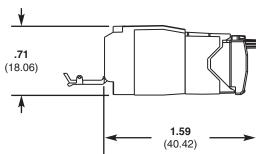
Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	—	Load (grams)	>100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	<40
Shock	IEC 512-6c	Contact Disturbance (microseconds)	<5
Durability	IEC 512-6a	Circuit Resistance (mOhms)	<40
Mating/Un-Mating	IEC 512-6b	Mating Force (N)	<20
		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







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

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