

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

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6A/Class E_A, 8-position, keyed shielded jack module shall terminate 4-pair, 22 – 26 AWG, 100 ohm shielded twisted pair cable without the use of a punchdown tool. The jack module shall be mechanically keyed with color-specific positive and negative keying features to prevent unintentional mating with unlike keyed or non-keyed modular plugs. 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 channel and component performance:	Exceeds channel requirements of ANSI/TIA-568-C.2 Category 6A and IISO 11801 Class E _A 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 E _A standards at swept frequencies 1 to 500 MHz
FCC and ANSI compliance:	Meets all applicable ANSI/TIA-968-A requirements; contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
c(UL)US listed:	UL 1863, CSA standard C22.2
RoHS compliance:	Compliant
Conductor termination range:	Wire cap compatible with 22 – 26 AWG solid or stranded cable with conductor insulation diameters of 0.06 in. (1.52mm) max and overall cable O.D. 0.2 in. to 0.33 in. (5.08mm to 8.38mm)

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; 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

APPLICATIONS

The TX6A 10Gig Keyed Shielded Jack Modules are components of the TX6A 10Gig Shielded Copper Cabling System, offering visual and mechanical differentiation for enhanced security. This end-to-end solution ensures current and future bandwidth demands are easily met, providing high performance, EMI suppression, and secure data transmission. Certified to ISO 11801 Class E_A Edition 2.1, IEEE 802.3an-2006, and ANSI/TIA-568-C.2 Category 6A standards, it supports various high-bandwidth applications including data centers, high-end workstations, storage area networks, and real-time transactions, enabling organizations to efficiently meet their data transmission needs with reliability.

Mini-Com TX6A 10Gig Keyed Shielded Jack Modules

Keyed A (black):	CJSK6X88TGBL
Keyed B (red):	CJSK6X88TGRD
Keyed C (green):	CJSK6X88TGGR
Keyed D (yellow):	CJSK6X88TGYL
Keyed E (orange):	CJSK6X88TGOR
Keyed F (blue):	CJSK6X88TGBU

TX6A™ 10Gig™ Keyed Shielded Patch Cords

Keyed A (black):	STPK6X*BL
Keyed B (red):	STPK6X*RD
Keyed C (green):	STPK6X*GR
Keyed D (yellow):	STPK6X*YL
Keyed E (orange):	STPK6X*OR
Keyed F (blue):	STPK6X*BU

Mini-Com® Flat All Metal Modular Patch Panels

24-port, 1 RU:	CP24BLY
48-port, 2 RU:	CP48BLY

Tools and Accessories

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

*Foot lengths: 3, 5, 7, 10, and 14 feet

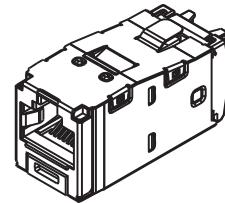
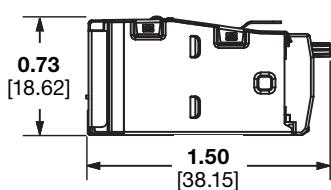
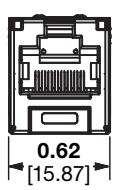
++Colors: WH (White), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange)

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

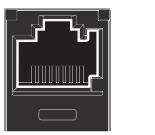
TEST RESULTS

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 512-13b	Mating Force (N)		< 20	
		Un-mating Force (N)			
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	
Environmental		Test Method	Measurement	Test Results	
Temperature Life		IEC 512-9b	Circuit Resistance (mOhms)	< 40	
Humidity		IEC 512-11c			
Thermal Shock		IEC 512-11d			
Climatic Sequence		IEC 512-11a			
Flowing Mixed Gas Corrosion		IEC 512-11g			

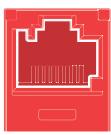
ENGINEERING DRAWINGS



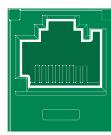
KEYED GEOMETRY



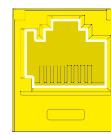
Black
Key



Red
Key



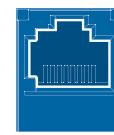
Green
Key



Yellow
Key



Orange
Key



Blue
Key



Black
Key



Red
Key



Green
Key



Yellow
Key



Orange
Key



Blue
Key

Dimensions are in inches. [Dimensions in brackets are metric].

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