Mini-Com® TX6A™ 28/30 AWG Shielded Jack Modules

PANDUIT®

specifications

Category 6A/Class E$_A$, 8-position, shielded jack module shall terminate 4-pair, 28 AWG solid/stranded and 30 AWG solid, 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 aqua to designate Category 6A and 28/30 AWG utility performance and shall include a universal label coded for T568A and T568B wiring schemes.

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 802.3bt type 3 and type 4 for up to 100W
Safety compliance:	cULus Listed; UL 1863 and CAN/CSA-C22.2 (UL File E129886)
RoHS compliance:	Compliant
Conductor termination range:	Wire cap compatible with 28 AWG solid/stranded to 30 AWG solid cable with conductor insulation diameters of 0.025in. max. and overall cable O.D. 0.120in. to 0.185in.

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
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® TX6A™ 28/30 AWG Shielded Jack Modules are a component of the TX6A™ 28/30 AWG Shielded Copper Cabling System. Shielded jack modules enable use of shielded 28/30 AWG equipment cords which ensure 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.

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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

28/30 AWG Shielded Jack Module and 28/30 AWG Wire Cap

0.73 (18.64)

0.62 (15.87)

1.42 (36.18)
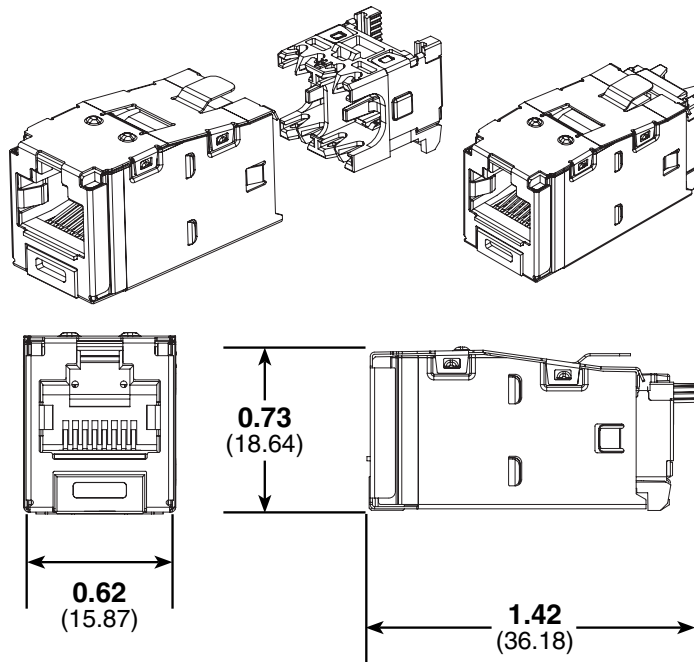
Dimensions are in inches (Dimensions in parenthesis are metric)

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For more information

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