TX6A-28™ Category 6A Performance 28 AWG UTP Patch Cords

specifications

Category 6A/Class EA, UTP, small diameter patch cords shall be constructed of 28 AWG, unshielded, twisted pair, solid copper (dual-rated CM/LSZH) cable with high performance RJ45 modular plugs. Patch cords shall be offered in multiple lengths and colors for design flexibility.

technical information

Category 6A/Class EA channel and component performance:	Exceeds all ANSI/TIA-568.2-D Category 6A and ISO 11801 Class EA electrical performance requirements for frequencies up to 500 MHz‡.
	Note: 28 AWG patch cords have attenuation de-rating value of 1.9. Supports 96 meter channels that include 90 meter permanent links. Supports 93 meter channels with 10 meters of patch cords included in the channel.
Cable diameter:	0.185" (4.7mm) nominal
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A (formerly FCC Part 68)
IEC compliance:	Meets IEC 60603-7
PoE compliance:	Supports IEEE 802.3af/802.3at (48 cables in a bundle) and 802.3bt type 3 and type 4 (24 cables in a bundle) PoE applications
Safety compliance:	cULus Listed; UL 1863 and CAN/CSA-C22.2 (UL File E129886)
RoHS compliance:	Compliant
Operating temperature:	14°F to 167°F (-10°C to 75°C)
Storage temperature:	-40°F to 158°F (-40°C to 70°C)
Plug housing:	UL94V-0 rated clear Polycarbonate
Contacts:	Gold plated phosphor bronze; contacts plated with 50 microinches of gold for superior performance
Flammability rating:	CM/LSZH dual-rated

Category 6A 28 AWG Patch Cords

Feet:	UTP28X*^
Meters:	UTP28X**M^
6 inch:	UTP28X6IN^
8 inch:	UTP28X8IN^
0.2m:	UTP28X0.2M^

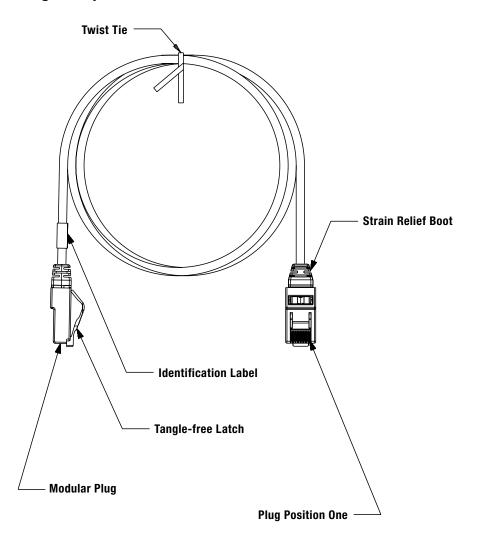|	
*Feet lengths:	1 – 50' (every 1')
	55 – 130' (every 5')
**Meter lengths:	0.5 – 10m (every 0.5m)
	11 – 20m (every 1m)
	25 – 40m (every 5m)

^For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), GY (Gray), or VL (Violet).

For example, the part number for a blue, 15 foot patch cord is UTP28X15BU. The part number for a 5 meter, blue patch cord is UTP28X5MBU.

‡ Lengths 1m to 15m or 6" to 49' are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 15m or 49' are guaranteed to meet ISO component and both TIA and ISO channel requirements.

key features and benefits

Smaller diameter, flexible cable design:	Tight bend radius enables improves cable routing and management in high density applications. Smaller cable diameter allows twice the amount of cords to be routed through cable managers and pathways compared to traditional Category 6A patch cords. Reduced cable diameter improves air flow, cooling, resulting in lower operating costs than traditional Category 6A patch cords
Category 6A component compliance:	Category 6A component compliant per the new ANSI/TIA-568.2-D standard
100% performance tested for wire map, NEXT and return loss:	Confidence that each patch cord delivers critical electrical component level performance
	Centered de-embedded plug performs in center of ANSI/TIA-568.2-D
	Category 6A component range, ensuring interoperability and optimum performance
Integral pair manager:	Optimizes performance and consistency by reducing untwist at plug
Patented tangle-free latch:	Prevents snags and provides easy release, saving time on frequent moves, adds, and changes
Identification label:	Provides identification of performance level, length, and quality control number for traceability
Robust construction:	Plug contact plated with 50 microinches of gold and rated to 2500 mating cycles
Variety of cable colors and lengths:	Meets individual length and color-coding requirements for greater system flexibility
Available plug lock-in devices (optional):	Plug lock-in and latch guard devices to prevent unauthorized or unintended removal of patch cords

applications

TX6A Category 6A Performance 28 AWG Patch Cords support the following applications:

- 10GBASE-T Ethernet
- Data center I/O Consolidation
- Data center server virtualization
- Backbone aggregation
- Parallel processing and high speed computing

component drawing of patch cord

Twist Tie

Strain Relief Boot

Identification Label

Tangle-free Latch

Modular Plug

Plug Position One

Recycle at end of life

Plug Position	Cable Wire
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown

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