

# TX6-28™ Category 6 Performance 28 AWG UTP Patch Cords

## specifications

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



## technical information

<b>Category 6/Class E channel and component performance:</b>	Exceeds all ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E electrical performance requirements for frequencies up to 250 MHz <sup>‡</sup> Note: Panduit 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.
<b>Cable diameter:</b>	0.150 in. (3.8mm) nominal
<b>FCC and ANSI compliance:</b>	Meets ANSI/TIA-1096-A (formerly FCC Part 68)
<b>IEC compliance:</b>	Meets IEC 60603-7
<b>PoE compliance:</b>	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
<b>Safety compliance:</b>	cULus Listed; UL 1863 and CAN/CSA-C22.2 (UL File E129886)
<b>RoHS compliance:</b>	Compliant
<b>Operating temperature:</b>	14°F to 167°F (-10°C to 75°C)
<b>Storage temperature:</b>	-40°F to 158°F (-40°C to 70°C)
<b>Plug housing:</b>	UL94V-0 rated clear Polycarbonate
<b>Contacts:</b>	Gold plated phosphor bronze; contacts plated with 50 microinches of gold for superior performance
<b>Flammability rating:</b>	CM/LSZH dual-rated

## key features and benefits

<b>Smaller diameter, flexible cable design</b>	Tight bend radius enables improved 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 6 patch cords. Reduced cable diameter facilitates improved air flow, cooling, resulting in lower operating costs than traditional Category 6 patch cords
<b>Category 6 component compliance</b>	Now Category 6 component compliant per the new ANSI/TIA-568.2-D standard
<b>100% performance tested for wire map, NEXT and return loss</b>	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 6 component range, ensuring interoperability and optimum performance
<b>Integral pair manager</b>	Optimizes performance and consistency by reducing untwist at plug
<b>Patented tangle-free latch</b>	Prevents snags and provides easy release, saving time on frequent moves, adds, and changes
<b>Flexible stranded cable</b>	U/UTP stranded 28 AWG copper cable with a nominal diameter of 0.150 in. (3.8mm) allows for high density installations and superior panel cable management
<b>Identification label</b>	Provides identification of performance level, length, and quality control number for traceability
<b>Robust construction</b>	Plug contact plated with 50 microinches of gold and rated to 2500 mating cycles
<b>Variety of cable colors and lengths</b>	Meets individual length and color-coding requirements for greater system flexibility
<b>Available plug lock-in devices (optional)</b>	Plug lock-in and latch guard devices to prevent unauthorized or unintended removal of patch cords

## applications

TX6-28™ Category 6 Performance 28 AWG UTP Patch Cords support the following applications:

- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Digital video and broadband/baseband analog video
- 1000BASE-T (Gigabit Ethernet), 100BASE-T
- Voice/data systems
- (Fast Ethernet)
- Voice over Internet Protocol (VoIP)

### Category 6 28 AWG Patch Cords

<b>Feet:</b>	UTP28SP* <sup>^</sup>
<b>Meters:</b>	UTP28SP** <sup>^</sup> M <sup>^</sup>
<b>6 inch:</b>	UTP28SP6IN <sup>^</sup>
<b>8 inch:</b>	UTP28SP8IN <sup>^</sup>
<b>0.2m:</b>	UTP28SP0.2M <sup>^</sup>

### Bulk Pack Options

<b>25-pack</b>	
<b>Feet:</b>	UTP28SP <sup>^</sup> -Q
<b>Meters:</b>	UTP28SP <sup>^</sup> M <sup>^</sup> -Q
<b>48-pack</b>	
<b>6 inch:</b>	UTP28SP6IN <sup>^</sup> -48
<b>8 inch:</b>	UTP28SP8IN <sup>^</sup> -48

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

For example, the part number for a blue, 15 foot patch cord is UTP28SP15BU. The part number for a 5 meter, blue patch cord is UTP28SP5MBU.

<sup>‡</sup>Bulk pk lengths: 1 – 20 feet (every 1 ft)  
0.5 – 6 meters (every 0.5m)

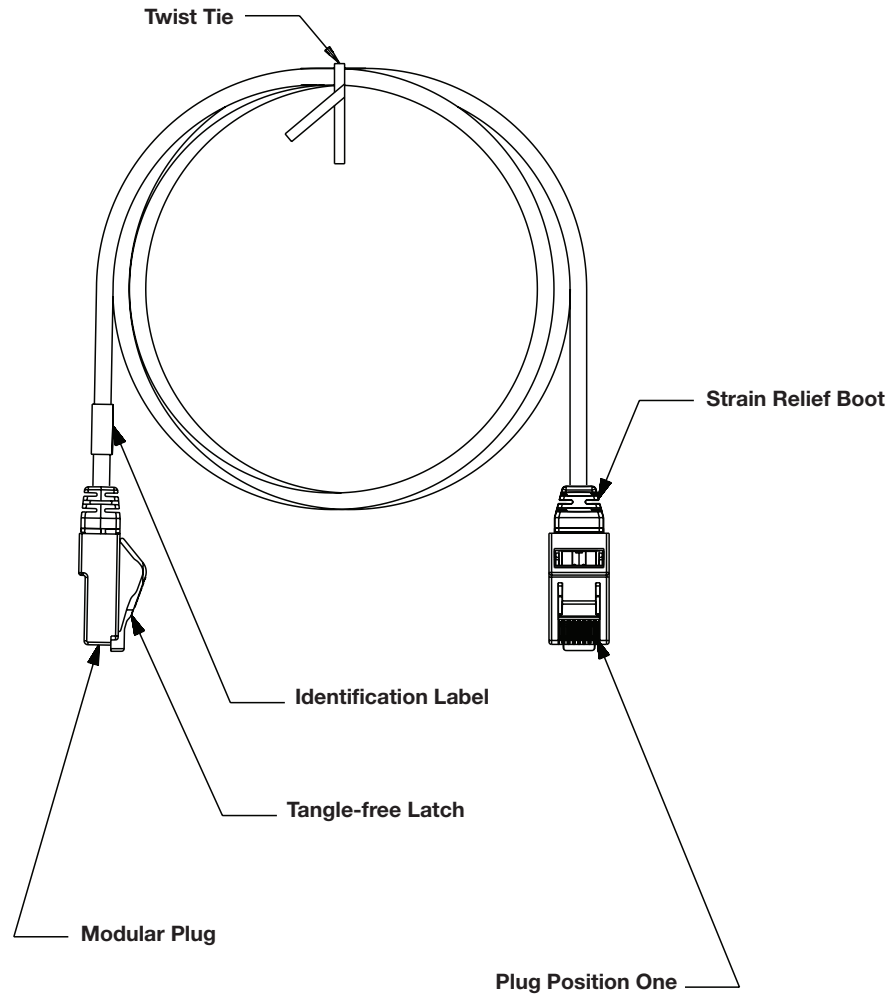
\*Feet lengths: 1 – 50 feet (every 1 ft)  
55 – 130 feet (every 5 ft)

\*\*Meter lengths: 0.5 – 10 meters (every 0.5m)  
11 – 20 meters (every 1m)  
25 – 40 meters (every 5m)

◊Lengths 1m to 15m or 6 inch to 49 feet are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 15m or 49 feet are guaranteed to meet ISO component and both TIA and ISO channel requirements.

# Category 6 Performance 28 AWG UTP Patch Cords

## Component Drawing of Patch Cord



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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