

# TX6™ Performance 28 AWG UTP Patch Cords

## SPECIFICATIONS

Category 6/Class E, UTP, small diameter patch cords shall be constructed of 28 AWG, unshielded, twisted pair, stranded 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

<b>Category 6/Class E channel and component performance:</b>	Exceeds all ANSI/TIA-568V.2-D Category 6 and ISO 11801 Class E electrical performance requirements for frequencies up to 250 MHz $\diamond$ 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>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>c(UL)us compliance:</b>	UL 1863 and CAN/CSA-C22.2 (UL File E129886)
<b>RoHS compliance:</b>	Compliant
<b>Cable diameter:</b>	0.15 in. (3.8mm) nominal
<b>Operating temperature:</b>	14°F-167°F (-10°C-75°C)
<b>Storage temperature:</b>	-40°F-158°F (-40°C-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>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 5e component range, ensuring interoperability and optimum performance
<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 number of cords to be routed through cable managers and pathways compared to traditional Category 5e patch cords. Reduced cable diameter facilitates improved air flow, cooling, resulting in lower operating costs than traditional Category 5e patch cords
<b>Integral pair manager:</b>	Immediate compatibility with the most common Mini-Com UTP and shielded jacks
<b>Patented tangle-free latch:</b>	Prevents snags and provides easy release, saving time on frequent moves, adds, and changes
<b>Robust construction:</b>	Plug contact plated with 50 microinches of gold and rated to 2500 mating cycles
<b>Flexible stranded cable:</b>	U/UTP stranded 28 AWG copper cable with a nominal diameter of 0.149 in. (3.8mm) allows for high density installations and superior panel cable management

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### Category 6 28 AWG Patch Cords

<b>Feet lengths:</b>	UTP28SP <sup>^</sup>
<b>Meter lengths:</b>	UTP28SP <sup>**M</sup>
<b>Inches lengths:</b>	UTP28SP <sup>***</sup>

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

\*\*Meter lengths: 0.5 - 10 meters (every 0.5 meters)  
11 -20 meters (every 1 meters)  
15 - 40 meters (every 5 meters)

\*\*\*Inch lengths: 6 and 8 inches

<sup>^</sup>Colors other than Off White: BU (Blue), BL (Black), GR (Green), RD (Red), OR (Orange), YL (Yellow), GY (Gray), or VL (Violet)

$\diamond$ Lengths 1m to 15m or 6 in. to 49 ft. are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 15m or 49 ft. are guaranteed to meet ISO component and both TIA and ISO channel requirements.



TX6™ Performance 28 AWG UTP Patch Cords are pre-labeled with the RapidID™ Network Mapping System to enable faster tracing, placing, and network documentation.

Learn more: [www.panduit.com/rapid-id](http://www.panduit.com/rapid-id)



All Part Numbers Compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to the United States.

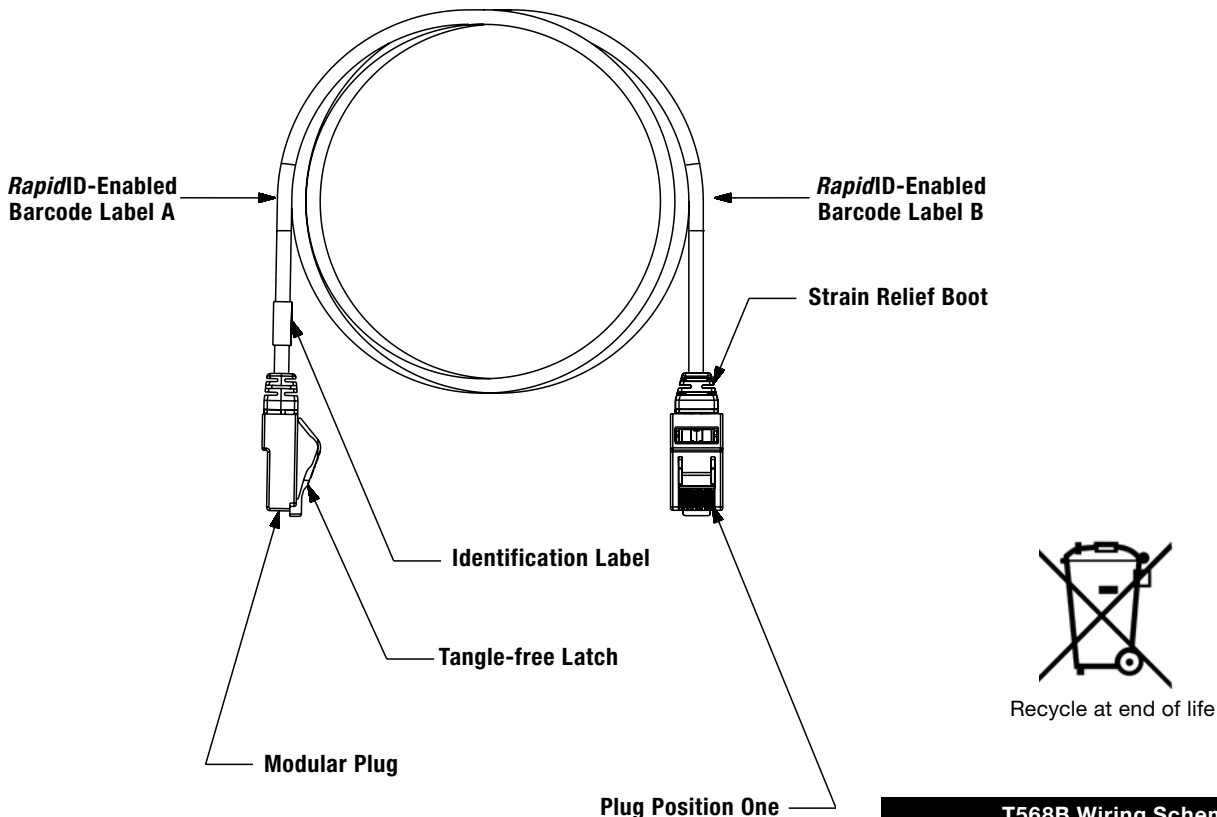
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## APPLICATIONS

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

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

## ENGINEERING DRAWING



T568B Wiring Scheme	
Plug Position	Cable Wire
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown

### WORLDWIDE SUBSIDIARIES AND SALES OFFICES

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