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# TX6™ Performance 28 AWG UTP Patch Cords

PANDUIT™
SPECIFICATION SHEET

## 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.



| *Category 6 28 AWG Patch Cords* | |
|---|---|
| **Feet lengths:** | **UTP28SP*^** |
| **Meter lengths:** | **UTP28SP**M^** |
| **Inches lengths:** | **UTP28SP***^** |

***Foot lengths:**
1 - 50 ft. (every 1 foot)
55 - 130 ft. (every 5 ft.)

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

*****Inch lengths: 6 and 8 in.**

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

**◊Lengths 1m to 15m or 6 in. to 49 ft. are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 1 5m or 49 ft. are guaranteed to meet ISO component and both TIA and ISO channel requirements.**

## TECHNICAL INFORMATION

| | |
|---|---|
| **Category 6/ Class E channel and component performance:** | Exceeds all ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E electrical performance requirements for frequencies up to 250 MHz◊<br>Note: 28 AWG patch cords have attenuation de-rating value of 1.9. Supports 96m channels that include 90m permanent links. Supports 93m channels with 10m of patch cords included in the channel |
| **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 |
| **c(UL)us compliance:** | UL 1863 and CAN/CSA-C22.2 (UL File E129886) |
| **RoHS compliance:** | Compliant |
| **Cable diameter:** | 0.15 in. (3.8mm) nominal |
| **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 |
| **Other standard compliances:** | UL444 Communications Cable - Safety Voltage Rating: 300V |

## KEY FEATURES AND BENEFITS

| | |
|---|---|
| **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-E Category 6 component range, ensuring interoperability and optimum performance |
| **Smaller diameter, flexible cable design:** | 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 6 patch cords. Reduced cable diameter facilitates improved air flow, cooling, resulting in lower operating costs than traditional Category 6 patch cords |
| **Integral pair manager:** | Immediate compatibility with the most common Mini-Com UTP and shielded jacks |
| **Tangle-free latch:** | Prevents snags and provides easy release, saving time on frequent moves, adds, and changes |
| **Robust construction:** | Plug contact plated with 50 microinches of gold and rated to 2500 mating cycles |
| **Flexible stranded cable:** | 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 |

PANDUIT RAPIDID enabled

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

Learn more: panduit.com/rapid-id

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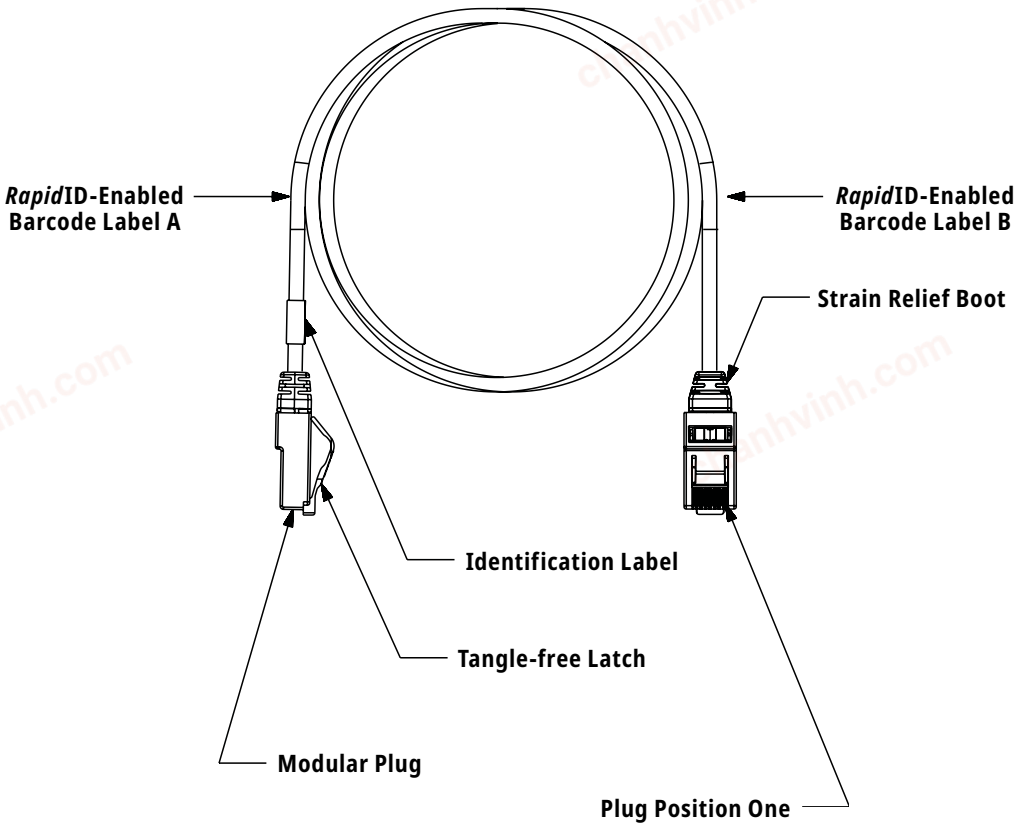
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## APPLICATIONS

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 DRAWINGS






Recycle at end of life

| 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 |


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