

# TX5e-28™ Category 5e Performance 28 AWG UTP Patch Cords

## specifications

Category 5e/Class D, 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 5e/<br/>Class D channel<br/>and component<br/>performance:</b> | Exceeds all ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D Edition 2.1 electrical performance requirements for all frequencies from 1 to 100 MHz<br>Note: These patch cords utilize 28 AWG conductors which do not meet the 22 to 26 AWG conductor size of patch cable referenced in ANSI/TIA-568-C.2, resulting in an increased 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>   | 0.149 in. (3.8mm) nominal  |
| <b>FCC and<br/>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 proposed 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<br/>temperature:</b>  | 14°F to 140°F (-10°C to 60°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<br/>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 5e patch cords. Reduced cable diameter facilitates improved air flow, cooling, resulting in lower operating costs than traditional Category 5e patch cords |
| <b>100% performance tested for<br/>wire map, NEXT and return<br/>loss</b> | Confidence that each patch cord delivers critical electrical component-level performance<br>Centered de-embedded plug performs in center of ANSI/TIA-568-C.2 Category 5e 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 0.149 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<br/>lengths</b>                            | Meets individual length and color-coding requirements for greater system flexibility   |
| <b>Available plug lock-in<br/>devices (optional)</b>                      | Plug lock-in and latch guard devices to prevent unauthorized or unintended removal of patch cords  |

## applications

TX5e-28™ Category 5e Performance 28 AWG UTP Patch Cords support the following applications:

- 100BASE-T (Gigabit Ethernet), 100BASE-T (Fast Ethernet)
- 155 Mb/s ATM, 622 Mb/s ATM
- Voice/data systems
- Voice over Internet Protocol (VoIP)

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### Category 5e 28 AWG Patch Cords

|                |                        |
|----------------|------------------------|
| <b>Feet:</b>   | UTP28CH <sup>^</sup>   |
| <b>Meters:</b> | UTP28CH <sup>**M</sup> |

\* 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)

<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), or VL (Violet).

For example, the part number for a blue, 15 foot patch cord is UTP28CH5BU. The part number for a blue, 5 meter patch cord is UTP28CH5MBU.

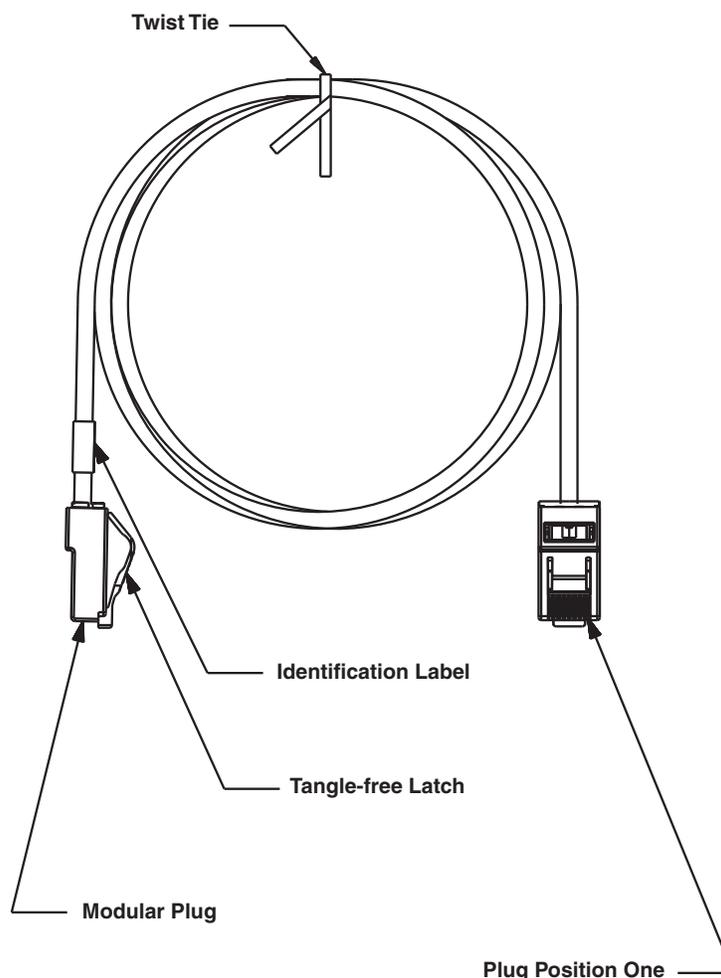
### Bulk Pack Options

|                 |                         |
|-----------------|-------------------------|
| <b>25-pack:</b> | UTP28CH <sup>^A-Q</sup> |
|-----------------|-------------------------|

‡ Bulk pk lengths: 1 – 20 feet (every 1 ft)

# Category 5e Performance 28 AWG UTP Patch Cords

## Component Drawing of Patch Cord



### T 5 6 8 A wiring scheme

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

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