

Category 5e SD 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 modular plugs. Patch cords shall be offered in multiple lengths and colors for design flexibility.



Category 5e SD UTP Patch Cords

Feet: UTP28CH[^]
Meters: UTP28CH^{**M}

technical information

Category 5e/ Class D channel and component performance:	Exceeds all ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D Edition 2.1 standards for NEXT and RL for all frequencies from 1 to 100 MHz Facilitates a full 100-meter Category 5e channel when 10 meters or less of patch cords are employed in the channel. Total patch cord lengths exceeding 10 meters are de-rated by a factor of 1.8
Cable diameter:	0.149 in. (3.8mm) nominal
FCC and ANSI compliance:	Meets ANSI/TIA/EIA-1096-A; contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications in bundle sizes up to 40 cables
Operating temperature:	14°F to 140°F (-10°C to 60°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
RoHS compliance:	Compliant
Flammability rating:	CM/LSZH

^{*}For lengths 1 to 20 feet (increments of one foot), and 25, 30, 35, 40, 45, 50 feet, change the length designation in the part number to the desired length.

^{**}For lengths 0.5 to 5 meters (increments of half meter) 6, 7, 8, 9, 10, 12, 15 meters.

[^]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 UPT28CH5MBU.

Contact customer service for keyed connectivity, bulk packaged jack modules and patch cords.

key features and benefits

Smaller diameter, flexible cable design	Tight bend radius enables improved cable routing and management in high density applications. Smaller cable diameter allows twice the amount of cables to be routed through cable managers and pathways compared to traditional Category 5e patch cable. Reduced cable diameter facilitates improved air flow, cooling, resulting in lower operating costs than traditional 24 AWG patch cables
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-C.2 Category 5e 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
Flexible stranded cable	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
Identification	Provides identification of performance level, length, and quality control number for future 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
RJ45 plug lock-in device (optional)	Secures plug into jack to prevent unauthorized removal of patch cord

applications

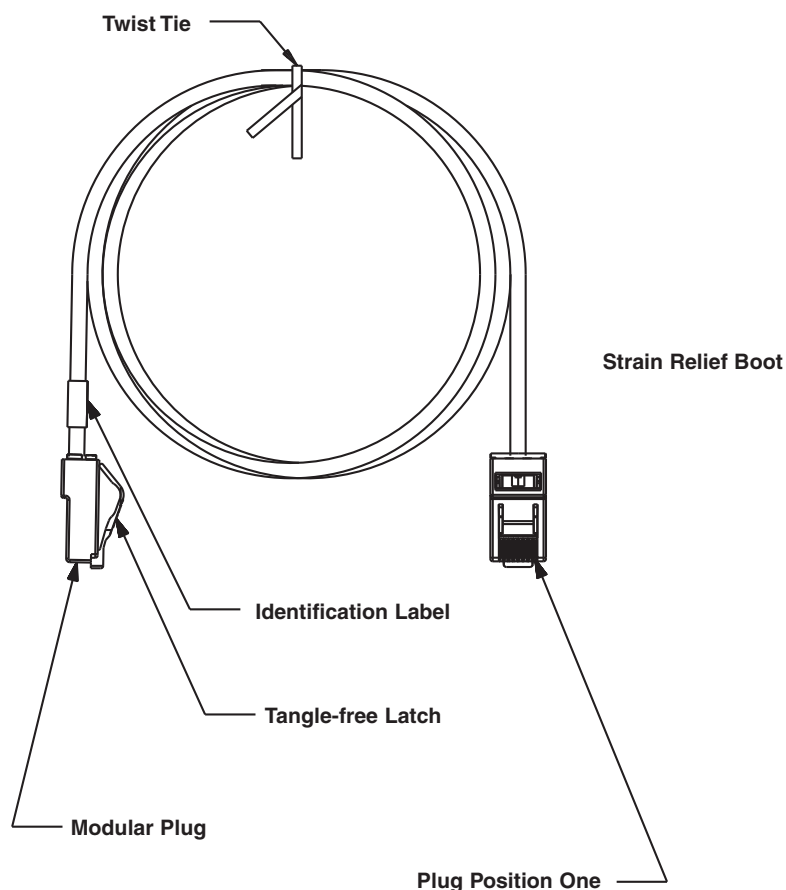
TX5e™ UTP 28AWG Patch Cords support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet)

- 155 Mb/s ATM, 622 Mb/s ATM
- Token ring 4/16
- Voice/data systems
- Voice over Internet Protocol (VoIP)

Category 5e SD UTP Patch Cords

Component Drawing of Patch Cord



T568A 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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