

Category 6 Performance SD 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 modular plugs. Patch cords shall be offered in multiple lengths and colors for design flexibility.



technical information

Category 6/Class E channel and component performance:	Exceeds all ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E Edition 2.1 electrical performance requirements for all frequencies from 1 to 250 MHz 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.
Cable diameter:	0.150 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
c(UL)US listed:	UL 1863, CSA standard C22.2
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications in bundle sizes up to 48 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 dual rated

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 6 patch cable. Reduced cable diameter facilitates improved air flow, cooling, resulting in lower operating costs than traditional Category 6 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 6 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
Dual rated	Same patch cord meets CM and LSZH flame ratings; less material is more eco-friendly
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

TX6™ PLUS 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, 1.2 Gb/s ATM
- Token ring 4/16
- Digital video and broadband/baseband analog video
- Voice over Internet Protocol (VoIP)

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SPECIFICATION SHEET

Category 6 SD 28 AWG Patch Cords

Feet: UTP28SP*^
Meters: UTP28SP**M^

*For lengths 1 to 50 feet (increments of one foot), and 55 to 150 feet (increments of five feet), change the length designation in the part number to the desired length.

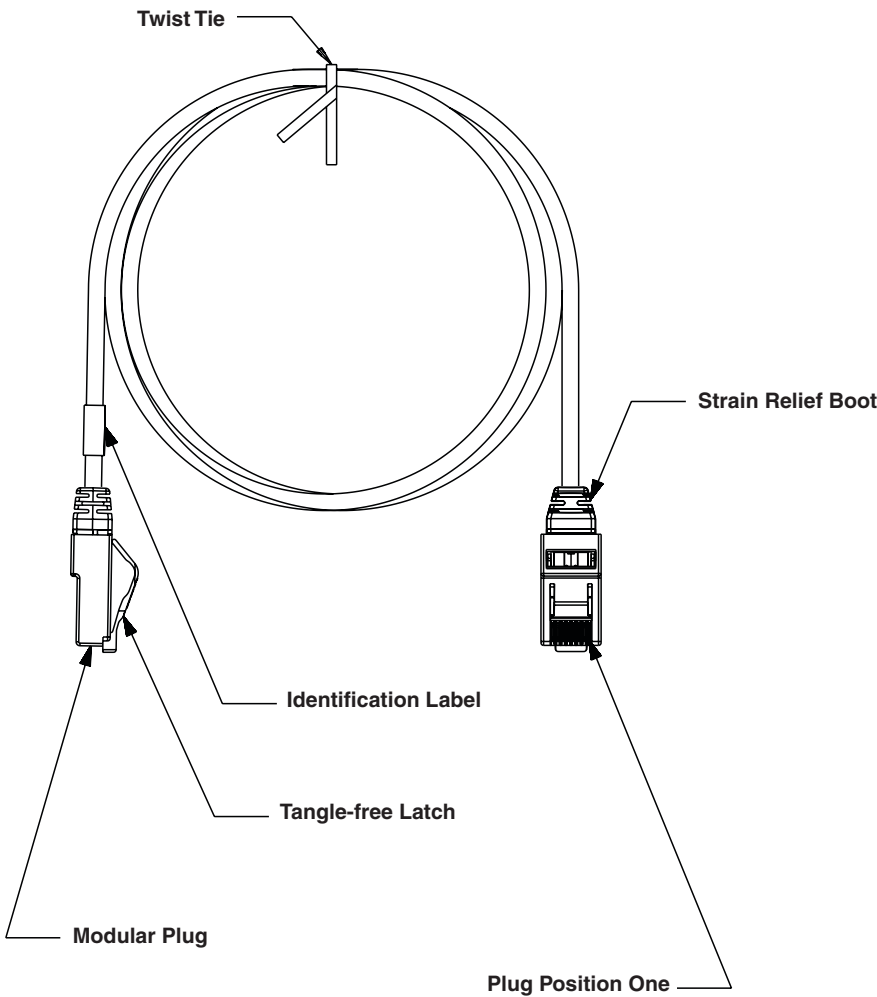
**For lengths 0.5 to 10 meters (increments of half meter), 11 to 20 meters (increments of one meter), and 25 to 50 meters (increments of five meters), change the length designation in the part number to the desired length.

^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), VL (Violet), PB (Pastel Blue), or PG (Pastel Green).

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.

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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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