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

PANDUIT®

SPECIFICATION SHEET

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

Category 5e/ Class D channel and component performance:	Exceeds all ANSI/TIA-568.2-D Category 5e and ISO 11801 Class D electrical performance requirements for frequencies up to 100 MHz◊ 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.
Cable diameter:	0.149 in. (3.8mm) nominal
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
Safety compliance:	cULus Listed; UL 1863 and CAN/CSA-C22.2 (UL File E129886)
RoHS compliance:	Compliant
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

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 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
Category 5e component compliance	Now Category 5e component compliant per the new ANSI/TIA-568.2-D standard
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-D 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 0.149 in. (3.8mm) allows for high density installations and superior panel cable management
Identification label	Provides identification of performance level, length, and quality control number for 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
Available plug lock-in devices (optional)	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:

- 1000BASE-T (Gigabit Ethernet), 100BASE-T (Fast Ethernet)
- 155 Mb/s ATM, 622 Mb/s ATM
- Voice/data systems
- Voice over Internet Protocol (VoIP)

Category 5e 28 AWG Patch Cords

Feet:	UTP28CH*^
Meters:	UTP28CH**M^

Bulk Pack Options

25-pack:	UTP28CH‡^-Q

*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)

^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).

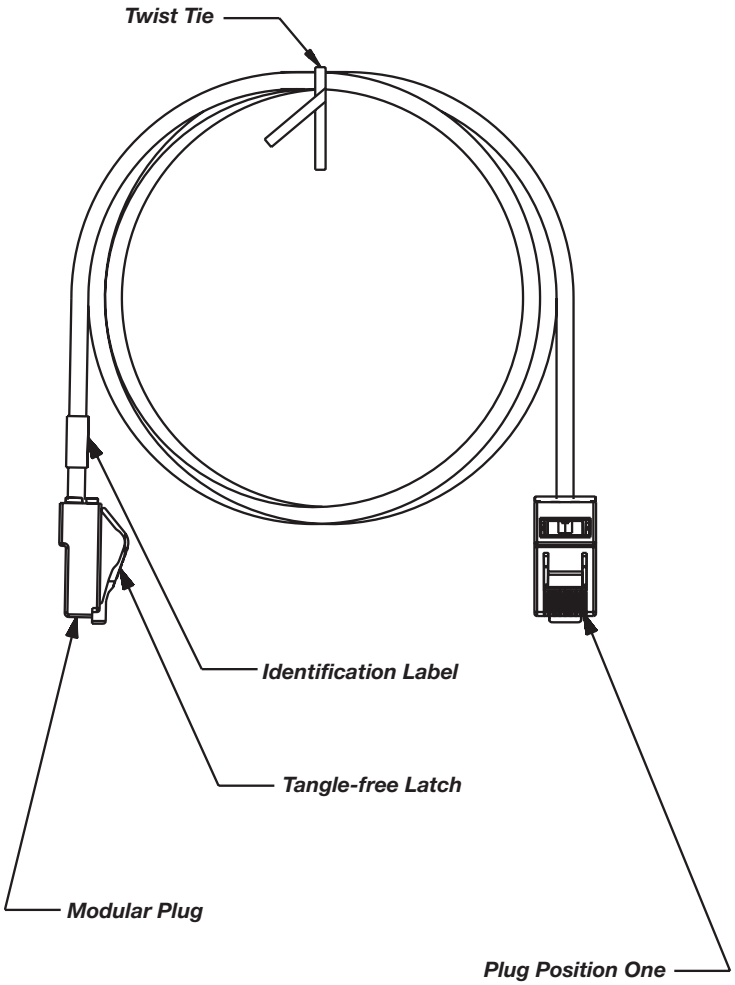
For example, the part number for a blue, 15 foot patch cord is UTP28CH5BU. The part number for a blue, 5 meter patch cord is UTP28CH5MBU.

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

◊Lengths 1m to 15m or 6 inch to 49 feet are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 15m or 49 feet are guaranteed to meet ISO component and both TIA and ISO channel requirements.

Category 5e Performance 28 AWG 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

Recycle at end of life

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