Category 5e Performance SD UTP Patch Cords

PANDUIT®

SPECIFICATION SHEET

specifications

Category 5e/Class D, 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 5e/ Class D channel and component performance:	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 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.
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

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™ 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
- Token ring 4/16
- Voice/data systems
- Voice over Internet Protocol (VoIP)

Category 5e SD UTP Patch Cords

Feet:	UTP28CH*^
Meters:	UTP28CH**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.

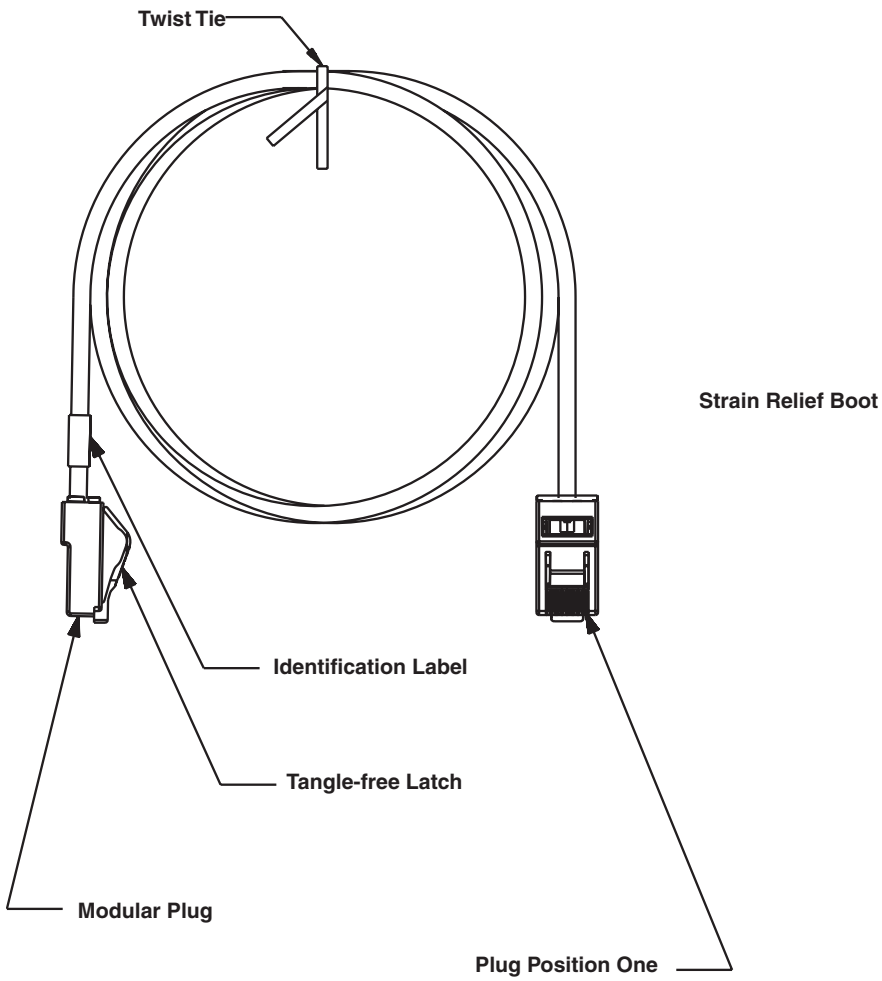
**For lengths 0.5 to 10 meters (increments of half meter), 11 to 20 meters (increments of one meter), and 25 to 50 meters (increments of five meters), change the length designation in the part number to the desired length.

^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), 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.

Category 5e Performance 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

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

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