Category 6 Performance SD 28 AWG UTP Patch Cords

PANDUIT®

SPECIFICATION SHEET

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)

www.panduit.com

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.

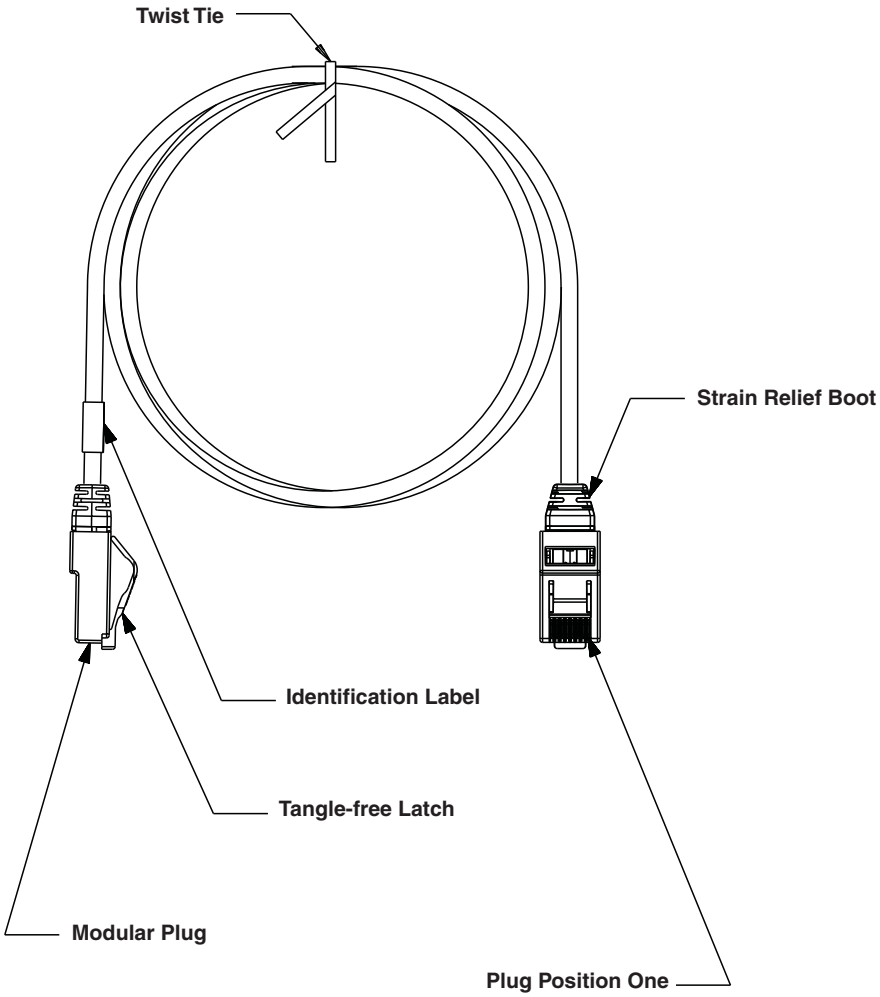
**For lengths 0.5 to 10 meters (increments of half meter), 11 to 20 meters (increments of one meter), and 25 to 50 meters (increments of five meters), change the length designation in the part number to the desired length.

^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), or VL (Violet).

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.

Category 6 Performance SD 28 AWG UTP Patch Cords

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

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

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

©2013 Panduit Corp.
ALL RIGHTS RESERVED.

COSP229--WW-ENG
8/2013

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panduit:

UTP28SP3GR UTP28SP3YL UTP28SP7YL UTP28SP3.5MGY UTP28SP5BL UTP28SP1BL UTP28SP14BL UTP28SP2YL UTP28SP10PK UTP28SP7GR UTP28SP7GY UTP28SP6OR UTP28SP6BU UTP28SP2BU UTP28SP1GR UTP28SP15GR UTP28SP8GR UTP28SP4BL UTP28SP15BU UTP28SP7BL UTP28SP12VL UTP28SP7VL UTP28SP3VL UTP28SP1BU UTP28SP4BU UTP28SP2OR UTP28SP3RD UTP28SP3PK UTP28SP14GR UTP28SP5OR UTP28SP6VL UTP28SP10BL UTP28SP6GR UTP28SP8VL UTP28SP7RD UTP28SP8BL UTP28SP2BL UTP28SP5RD UTP28SP10BU UTP28SP6BL UTP28SP8BU UTP28SP15VL UTP28SP2GR UTP28SP14BU UTP28SP2RD UTP28SP10YL UTP28SP1OR UTP28SP4.5MGY UTP28SP4OR UTP28SP2GY UTP28SP12GR UTP28SP3BL UTP28SP7PK UTP28SP6RD UTP28SP7OR UTP28SP14YL UTP28SP6YL UTP28SP7BU UTP28SP1VL UTP28SP3OR UTP28SP15BL UTP28SP9BU UTP28SP4YL UTP28SP1YL UTP28SP1RD UTP28SP10VL UTP28SP12BL UTP28SP5BU UTP28SP5VL UTP28SP9BL UTP28SP12YL UTP28SP12BU UTP28SP5PK UTP28SP15YL UTP28SP4.5MBL UTP28SP4.5MYL UTP28SP3.5MVL UTP28SP3.5MBU UTP28SP4.5MBU UTP28SP3.5MGR UTP28SP4.5MOR UTP28SP3.5MBL UTP28SP3.5MRD UTP28SP3.5MYL UTP28SP4.5MRD UTP28SP25YL UTP28SP15OR UTP28SP25OR UTP28SP10RD UTP28SP2MBU UTP28SP20VL UTP28SP1MBL UTP28SP20RD UTP28SP30BU UTP28SP8YL UTP28SP25RD UTP28SP3MRD UTP28SP50BU UTP28SP12RD UTP28SP3MBU