

Category 6 U/UTP Copper Cable

specifications

Category 6 cable shall meet ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E channel standards. The conductors shall be 23 AWG construction with FEP/polyolefin (CMP) or polyolefin (CMR) insulation. The copper conductors shall be twisted in pairs separated with a tape and covered by a low smoke, flame-retardant (CMP) PVC jacket or a flame-retardant (CMR) PVC jacket.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and meets ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies up to 250MHz
Conductors/insulators:	Plenum – 23 AWG solid copper covered by FEP/polyolefin insulation Riser – 23 AWG solid copper covered by polyolefin insulation
Flame rating:	Plenum – NFPA 262 Riser – UL1666
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Installation tension:	25 lbf (110N) maximum
Temperature rating:	32°F to 140°F (0°C to 60°C) during installation -4°F to 167°F (-20°C to 75°C) during operation
Cable jacket:	Plenum – low smoke, flame-retardant PVC Riser – flame-retardant PVC
Cable diameter:	Plenum – 0.205 in. (5.2mm) nominal Riser – 0.225 in. (5.7mm) nominal
Cable weight:	Plenum – 25 lbs./1000 ft. (10 kg/305m) Riser – 26 lbs./1000 ft. (12 kg/305m)
Packaging:	1000 ft. (305m) in an easy payout carton Package tested to ISTA Procedure1A

key features and benefits

Third party tested	Cable has been tested as part of the Category 6 UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standard: ANSI/TIA-568-C.2 Category 6
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Separator tape	Separates twisted pairs for robust cable performance
Tested beyond the standards	Cable has been characterized to 350 MHz, 100 MHz above the standard
Easy payout carton	Ensures proper performance and provides quick installation

applications

Interoperable and backward compatible, the Panduit Category 6 Cabling System provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards, this system will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token Ring 4/16

Category 6 U/UTP Copper Cable

Plenum:	PUP6C04*-U
Riser:	PUR6C04*-U

Cable Prep Tools

Wire snipping tool:	CWST
Wire stripping tool:	CJAST

*For standard cable colors, add suffix BU (Blue), WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), or BL (Black). Cable available in a standard pallet configuration of 36 cartons per pallet.

For other colors or pallet configurations, contact customer service.

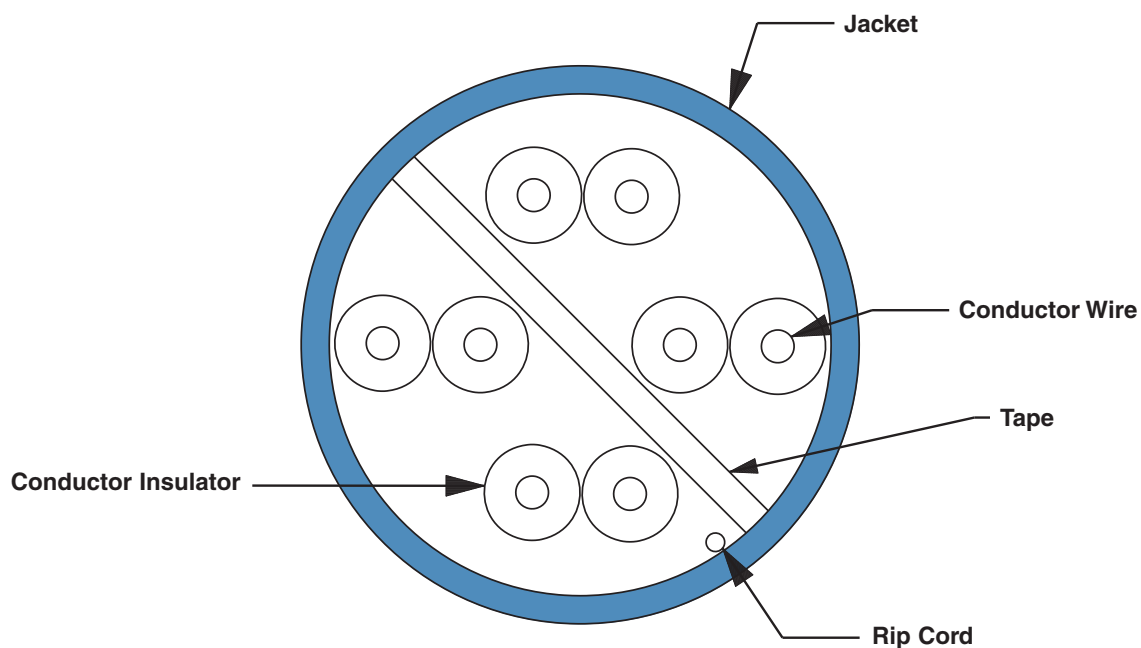
Visit www.panduit.com for connectivity components.

Category 6 U/UTP Copper Cable

additional specifications

Mechanical Test	
<i>Ultimate Breaking Strength</i>	> 90 lbf (400N)
<i>Minimum Bend Radius</i>	4 x cable diameter
Electrical Test	
<i>Nominal Velocity of Propagation (NVP)</i>	CMP – 70%, CMR – 68%

cable construction



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 and reference COSP178

PANDUIT[®]

©2011 Panduit Corp.
ALL RIGHTS RESERVED.

WW-COSP178

7/2011