

# 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

<b>Electrical performance:</b>	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
<b>Conductors/insulators:</b>	Plenum – 23 AWG solid copper covered by FEP/polyolefin insulation Riser – 23 AWG solid copper covered by polyolefin insulation
<b>Flame rating:</b>	Plenum – NFPA 262 Riser – UL1666
<b>PoE compliance:</b>	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
<b>Installation tension:</b>	25 lbf (110N) maximum
<b>Temperature rating:</b>	32°F to 140°F (0°C to 60°C) during installation -4°F to 167°F (-20°C to 75°C) during operation
<b>Cable jacket:</b>	Plenum – low smoke, flame-retardant PVC Riser – flame-retardant PVC
<b>Cable diameter:</b>	Plenum – 0.205 in. (5.2mm) nominal Riser – 0.225 in. (5.7mm) nominal
<b>Cable weight:</b>	Plenum – 25 lbs./1000 ft. (10 kg/305m) Riser – 26 lbs./1000 ft. (12 kg/305m)
<b>Packaging:</b>	1000 ft. (305m) in an easy payout carton Package tested to ISTA Procedure1A

## key features and benefits

<b>Third party tested</b>	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
<b>Descending length cable markings</b>	Easy identification of remaining cable reduces installation time and cable scrap
<b>Separator tape</b>	Separates twisted pairs for robust cable performance
<b>Tested beyond the standards</b>	Cable has been characterized to 350 MHz, 100 MHz above the standard
<b>Easy payout carton</b>	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

<b>Plenum:</b>	PUP6C04*-U
<b>Riser:</b>	PUR6C04*-U

### Cable Prep Tools

<b>Wire snipping tool:</b>	CWST
<b>Wire stripping tool:</b>	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.

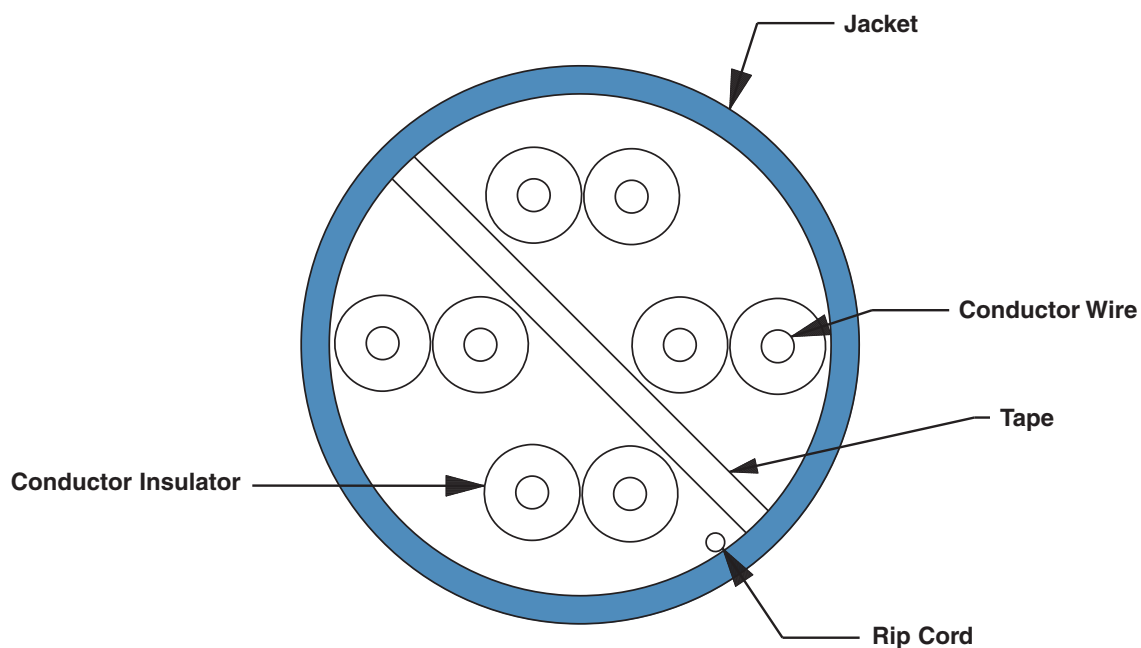
Visit [www.panduit.com](http://www.panduit.com) for connectivity components.

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## 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



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