# 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 and covered by a low smoke, flame-retardant (CMP) PVC jacket or a flame-retardant (CMR) PVC jacket.



| Category 6 U/UTP Copper Cable | |
| --- | --- |
| **Plenum:** | PUP6C04*-U |
| **Riser:** | PUR6C04*-U |

| Cable Prep Tools | |
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| **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.

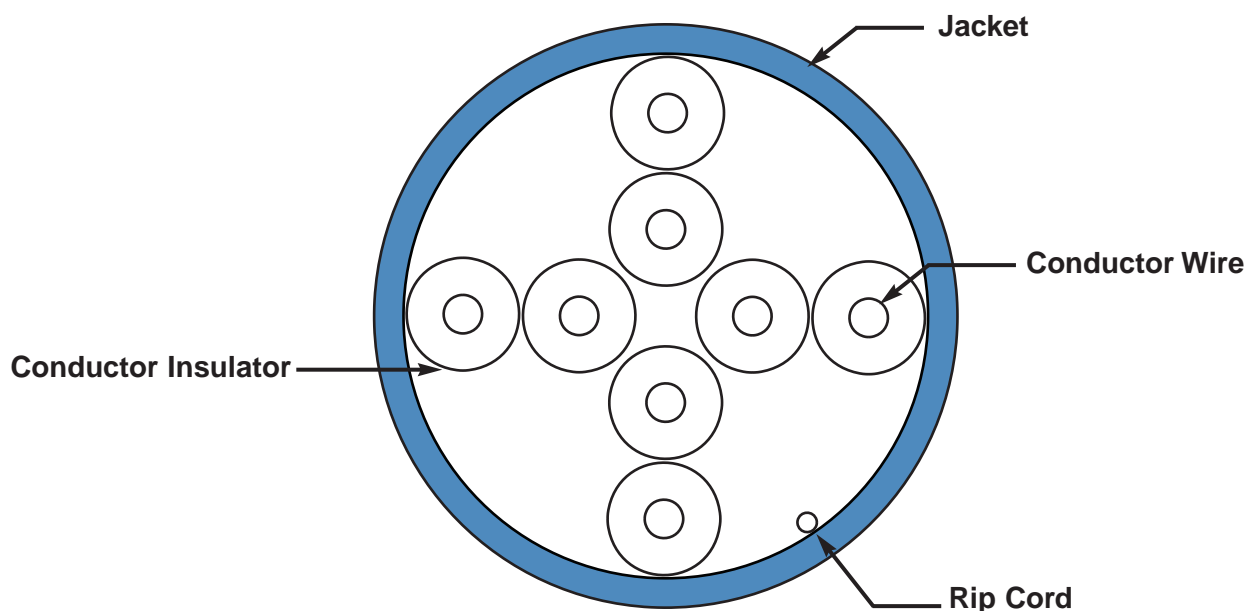For other colors or pallet configurations, contact customer service.

Visit www.panduit.com for connectivity components.

## 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<br>Riser – 23 AWG solid copper covered by polyolefin insulation |
| **Flame rating:** | Plenum – NFPA 262<br>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 122°F (0°C to 50°C) during installation<br>-4°F to 167°F (-20°C to 75°C) during operation (Riser)<br>-4°F to 140°F (-20°C to 60°C) during operation (Plenum) |
| **Cable jacket:** | Plenum – low smoke, flame-retardant PVC<br>Riser – flame-retardant PVC |
| **Cable diameter:** | Plenum – 0.224 in. (5.7mm) nominal<br>Riser – 0.210 in. (5.3mm) nominal |
| **Cable weight:** | Plenum – 29 lbs./1000 ft. (13 kg/305m)<br>Riser – 22 lbs./1000 ft. (10 kg/305m) |
| **Packaging:** | 1000 ft. (305m) in an easy payout carton<br>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 |
| **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

## additional specifications

| Mechanical Test | |
|---|---|
| *Ultimate Breaking Strength* | > 90 lbf (400N) |
| *Minimum Bend Radius* | 4 x cable diameter |
| **Electrical Test** | |
| *Nominal Velocity of Propagation (NVP)* | CMP – 72%, CMR – 69% |

## cable construction



Jacket

Conductor Wire

Conductor Insulator

Rip Cord

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**

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