

Category 5e U/UTP Copper Cable

specifications

Category 5e cable shall meet ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards. The conductors shall be 24 AWG construction with FEP/polyolefin (CMP) or polyolefin (CMR) insulation. The copper conductors shall be twisted in pairs 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 5e and ISO 11801 2nd Edition Class D standards at swept frequencies up to 100MHz
Conductors/insulators:	Plenum – 24 AWG bare copper wire covered by FEP/polyolefin insulation Riser – 24 AWG bare copper wire 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 122°F (0°C to 50°C) during installation Plenum – -4°F to 140°F (-20°C to 60°C) during operation Riser – -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 – 0.210 in. (5.3 mm) nominal Riser – 0.187 in. (4.7 mm) nominal
Cable weight:	Plenum – 25 lbs./1000 ft. (11 kg/305m) Riser – 18 lbs./1000 ft. (8 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 5e 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 5e
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, 250 MHz above the standard
Easy payout carton	Ensures proper performance and provides quick installation

applications

The Panduit® Category 5e Cabling System provides Gigabit Ethernet performance with usable bandwidth beyond 100 MHz. With certified performance to the ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D standards, this system will support the following applications:

- Ethernet 10BASE-T, 100 BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet)
- 155 Mb/s ATM, 622 Mb/s ATM
- Token Ring 4/16

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Plenum:	PUP5C04*-U
Riser:	PUR5C04*-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).

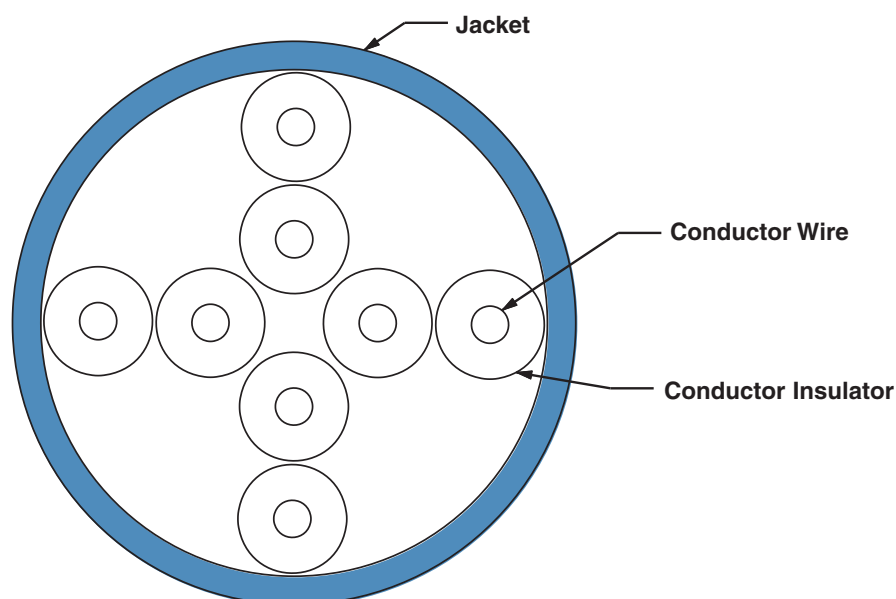
Visit www.panduit.com for connectivity components.

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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 - 66% nominal CMR - 70% nominal

cable construction



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