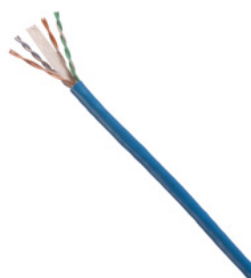


TX6™ ER Extended Reach Category 6 U/UTP 22 AWG Copper Cable

SPECIFICATIONS

Category 6 cable shall meet ANSI/TIA-568.2-E Category 6 and IEC 61156-5 component Standards. The conductors shall be 22 AWG construction with PE insulation. The copper conductors shall be twisted in pairs, separated by a cross-divider, and covered by a flame-retardant PVC jacket. Provides less voltage drop, increased current carrying capacity and reduced heat generation for PoE applications. The cable shall exceed the 100m distance for security, ICT, building automation, and IoT applications.



TX6™ ER Extended Reach Category 6 U/UTP 22 AWG Copper Cable

CMR: PUR6C2204xx-CE

****Colors:** 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.

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and meets ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E Standards at swept frequencies up to 250MHz Certified component performance up to 100m and meets the component requirements of ANSI/TIA-568.2-E Category 6 and IEC 61156-5 component Standards at swept frequencies up to 250 MHz
Conductors/insulators:	22 AWG solid copper covered by PE insulation
Insulation diameter:	0.047 in. - 0.051 in. (1.19mm - 1.29mm)
Flame rating:	UL 1666, IEC 60332-1, IEC 60754, IEC 61034, EN 50575: EuroClass Dca-s2,d2,a1
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	25 lbf (110N) maximum
Temperature rating:	32°F to 122°F (0°C to 50°C) during installation -4°F to 167°F (-20°C to 75°C) during operation
Cable jacket:	Flame-retardant PVC
Cable diameter:	0.287 in. (7.3mm) nominal
Cable weight:	38 lbs./1000 ft. (18 kg/305m)
Packaging:	1000 ft. (305m) in an easy payout carton Package tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Longer runs for labor and material savings:	Provides power and bandwidth at extended distances of 150m for 1Gbs application based on the IEEE 802.3 application standards. Maximum distance is subject to change based on manufacturers equipment and varying environmental conditions. Longer distances for lower data rates.
High powered applications:	Larger AWG conductors for higher power applications (reduced heat generation, higher maximum current carrying capabilities, improved attenuation).
Extended temperature range:	Allows operation in 75°C (167°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications
Reelix™ packaging:	Compact carton ensures proper performance and provides quick installation
Packaging options:	Available in longer length packaging

TX6™ ER Extended Reach Category 6 U/UTP 22 AWG Copper Cable

APPLICATIONS

Interoperable and backward compatible, the TX6™ ER Extended Reach U/UTP Cabling System provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E Standards for a 100m channel, this system will 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

ADDITIONAL INFORMATION

Mechanical Testing	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	8 x cable diameter
Engineering Testing	
Nominal Velocity of Propagation (NVP)	67% nominal
Operating Voltage, Maximum	80 V

ENGINEERING DRAWING

