

TX6-ER U/UTP 22 AWG Outside Plant (OSP) Copper Cable

SPECIFICATIONS

Category 6 OSP cable shall meet the ANSI/TIA-568.2-E Category 6 component standard. The conductors shall be 22 AWG construction with foamed PE insulation. The cable shall have a gel-filled construction to prevent moisture migration in wet applications and a wide temperature range for extreme weather environments. The copper conductors shall be twisted in pairs, separated by a pair separator and covered with a UV- and abrasion-resistant polyethylene (PE) jacket. Product is to be used in duct and conduit installations only. Not to be used in aerial or direct burial applications. Provides less voltage drop, increased current carrying capacity and reduced heat generation for PoE applications. Exceeds the 100m distance for security, ICT, building automation, and IoT applications.



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OSP: PUO6C2204BL-CEG

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds ANSI/TIA-568.2-E Category 6 standard at swept frequencies up to 250 MHz. Certified component performance up to 100m and exceeds the component requirements of ANSI/TIA-568.2-E Category 6 component standard at swept frequencies up to 250 MHz.
Conductors/insulators:	22 AWG solid copper insulated with foamed PE
Insulation diameter:	0.047 in. – 0.054 in. (1.20mm – 1.36mm)
Standards compliance:	ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E; IEC 60794-1-2F5 Method B Water Prevention Requirement EN50575: Euroclass Fca
Installation tension:	25 lbf (110 N) maximum
Temperature rating:	-22°F to 140°F (-30°C to 60°C) during installation -49°F to 167°F (-45°C to 75°C) during operation
Cable jacket:	Black UV-resistant and abrasion-resistant polyethylene (PE)
Cable diameter:	0.311 in. (7.9mm) nominal
Cable weight:	49 lbs./1000 ft. (22 kg/305m)
Packaging:	1000 ft. (305m) on a reel 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 based on the IEEE 802.3 application standards. Maximum distance is subject to change based on manufacturer's equipment and varying environmental conditions.
High powered applications:	Larger AWG conductors for higher power applications (reduced heat generation, higher maximum current carrying capabilities, improved attenuation).
Robust design:	Protects against environmental elements that can cause electrical performance failures. Wide temperature range for extreme weather environments.
Flooding compound:	Waterproof gel prevents moisture migration
Reel:	Ensures proper performance and provides quick installation
Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap

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APPLICATIONS

TX6-ER U/UTP OSP Copper Cable is a component of the TX6 U/UTP Copper Cabling System. This end-to-end system provides Gigabit Ethernet performance with usable bandwidth beyond 250 MHz. With certified performance to the ANSI/TIA-568.2-E Category 6 Standard, this system will support the following applications:

- Ethernet 10BASE-T
- 100BASE-T (Fast Ethernet)
- 1000BASE-T (Gigabit Ethernet)

ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate breaking strength:	> 400 N (90 lbf)
Minimum bend radius:	4 x cable diameter
Engineering Test	
Nominal velocity of propagation (NVP):	63% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWING

