

TX6A™ Category 6A U/UTP Outside Plant (OSP) Copper Cable

SPECIFICATIONS

Category 6A OSP cable shall meet the IEC 61156-5 and ANSI/TIA-568.2-E Category 6A component Standards. The conductors shall be 23 AWG with foamed PE insulation. The cable shall have a gel-filled construction to prevent moisture migration in underground and wet applications and a wide temperature range for extreme weather environments. The copper conductors shall be twisted in pairs, separated by a pair separator, covered with an AXT barrier tape and a UV-resistant and abrasion-resistant polyethylene (PE) jacket. AXT barrier tape should not be grounded. Product shall be used in duct and conduit installations only. Not to be used in aerial or direct burial installations.



TX6A U/UTP (OSP) Copper Cable

OSP: PUO6X04BL-CEG

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds ISO 11801 Class E _A and ANSI/TIA-568.2-E Category 6A Standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the TX6A Copper Cabling System. Certified component performance up to 100m and exceeds the IEC 61156-5 and ANSI/TIA-568.2-E Category 6A Standards for supporting 10GBASE-T transmission over twisted-pair cabling.
Conductor/insulator:	23 AWG solid copper insulated with foamed PE
Insulation diameter:	0.044 in. – 0.053 in. (1.13mm – 1.34mm)
Standards compliance:	ISO 11801 Class E _A , IEC 61156-5 Category 6A, ANSI/TIA-568.2-E Category 6A, IEC 60794-1-2F5 Method B water penetration requirement
Flame rating:	EN50575: Euroclass Fca
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at, and IEEE 802.3bt for PoE applications
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	32°F to 122°F (0°C to 50°C) during installation -40°F to 176°F (-40°C to 80°C) during operation
Cable jacket:	Black UV- and abrasion-resistant polyethylene (PE)
Cable diameter:	0.323 in. (8.2mm) nominal
Cable weight:	71 lbs./1000 ft. (32 kg/305m)
Packaging:	1000 ft. (305m) on a reel Package tested to ISTA procedure 1A

KEY FEATURES AND BENEFITS

Bulk packaging:	Ensures proper performance and provides quick installation
Descending length cable markings:	Print legend contains markings from 1000 ft. to 0 ft.
Robust design:	Overall barrier provides superior alien crosstalk and electrical performance
Flooding compound:	Waterproof gel prevents moisture migration and water ingress

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APPLICATIONS

TX6A OSP Unshielded Copper Cable is a component of the TX6A Copper Cabling System. This end-to-end system provides a cost-effective media for ensuring the most challenging network bandwidth needs are easily met today and tomorrow. Businesses are placing increased reliance on their networks to efficiently pass vital and time sensitive information throughout their enterprise. Key applications include:

- 10GBASE-T Ethernet
- 1000BASE-T Gigabit Ethernet
- 10/100BASE-T Ethernet
- Broadband Video
- POE, POE+, POE++

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ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate breaking strength:	>400 N (90 lbf)
Minimum bend radius:	8 x cable diameter
Electrical Test	
Nominal velocity of propagation (NVP):	65% nominal
Segregation class:	C
Operating voltage, maximum:	80 V

ENGINEERING DRAWING

