

# TX6™ Category 6 U/UTP Outside Plant (OSP) Copper Cable

**PANDUIT®**  
SPECIFICATION SHEET

## SPECIFICATIONS

Category 6 OSP cable shall meet the ANSI/TIA-568.2-E and IEC 61156-5 Category 6 component Standards. The conductors shall be 23 AWG construction with polyolefin 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 and covered with a UV-resistant 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.



**TX6 U/UTP OSP Copper Cable**

**OSP:**

**PUO6C04BL-CGZ**

## TECHNICAL INFORMATION

<b>Electrical Performance:</b>	Certified channel performance in a 4-connector configuration up to 100m and exceeds ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E standards at swept frequencies up to 250 MHz Certified component performance up to 100m and exceeds the component requirements of ANSI/TIA-568.2-E and IEC 61156-5 Category 6 component standards at swept frequencies up to 250 MHz
<b>Conductors/insulators:</b>	23 AWG solid copper insulated with polyolefin
<b>Insulation diameter:</b>	0.038 in. - 0.041 in. (0.97mm - 1.04mm)
<b>Standards compliance:</b>	ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E; IEC 60794-1-2F5 Method B Water Prevention Requirement EN50575: Euroclass Fca
<b>Installation tension:</b>	25 lbf (110 N) maximum
<b>Temperature rating:</b>	-22°F to 158°F (-30°C to 70°C) during installation -40°F to 158°F (-40°C to 70°C) during operation
<b>Cable jacket:</b>	Black UV-resistant and abrasion-resistant polyethylene (PE)
<b>Cable diameter:</b>	0.240 in. (6.7mm) nominal
<b>Cable weight:</b>	29 lbs./1000 ft. (13 kg/305m)
<b>Packaging:</b>	305m (1000 ft.) on a reel Package tested to ISTA Procedure 1A

## KEY FEATURES AND BENEFITS

<b>Robust design:</b>	Protects against environmental elements that can cause electrical performance failures
<b>Flooding compound:</b>	Waterproof gel prevents moisture migration
<b>Reel:</b>	Ensures proper performance and provides quick installation
<b>Descending length cable markings:</b>	Easy identification of remaining cable reduces installation time and cable scrap

## APPLICATIONS

TX6 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 and ISO 11801 Class E Standards, this system will support the following applications:

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

**Product is to be used in duct and conduit installations only.  
Not to be used in aerial or direct burial applications.**

# TX6™ Category 6 U/UTP Outside Plant (OSP) Copper Cable

## ADDITIONAL SPECIFICATIONS

### Mechanical Test

Ultimate breaking strength: > 90 lbf (400 N)

Minimum bend radius: 4 x cable diameter

### Electrical Test

Nominal velocity of propagation (NVP): 62% nominal

Operating voltage, maximum: 80 V

## ENGINEERING DRAWING

