

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

## specifications

Category 6 OSP cable shall meet the ANSI/TIA-568-C.2 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.



## technical information

<b>Electrical Performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies up to 250 MHz  Certified component performance up to 100 meters and exceeds the component requirements of ANSI/TIA-568-C.2 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>Standards compliance:</b>	ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E; Telcordia Specification GR-421-CORE Water Penetration Requirement
<b>Installation tension:</b>	25 lbf (110 N) maximum
<b>Temperature rating:</b>	-22°F to 140°F (-30°C to 60°C) during installation -49°F to 176°F (-45°C to 80°C) during operation
<b>Cable jacket:</b>	Black UV-resistant and abrasion-resistant polyethylene (PE)
<b>Cable diameter:</b>	0.260 in (6.6mm) nominal
<b>Cable weight:</b>	25 lbs./1000 ft. (11 kg/305m)
<b>Packaging:</b>	1000 ft. (305m) on a reel

## 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 Panduit TX6™ 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-C.2

Category 6 standard, this system will support the following applications:

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

### TX6™ U/UTP Copper Cabling System

#### TX6™ UTP Copper Cable

**OSP:** PUO6C04BL-U

#### Mini-Com® TX6™ PLUS UTP Jack Module

**Jack module:** CJ688TGIW\*

#### TX6™ PLUS UTP Patch Cords – CM

**Foot lengths:** UTPSP3^Y

**Meter lengths:** UTPSP1^MY

#### DP6™ PLUS Punchdown Patch Panels

**Angled, 24-port, 1RU:** DPA24688TGY

**Angled, 48-port, 2RU:** DPA48688TGY

**Flat, 12-port:** DP12688TGY

**Flat, 24-port, 1 RU:** DP24688TGY

**Flat, 48-port, 2 RU:** DP48688TGY

#### Mini-Com® Flush Mount Modular Patch Panels

**Angled, 24-port, 1RU:** CPPA24FMWBLY

**Angled, 48-port, 2RU:** CPPA48FMWBLY

**Flat, 24-port, 1 RU:** CPP24FMWBLY

**Flat, 48-port, 2 RU:** CPP48FMWBLY

#### Termination and Cable Prep Tools

**Termination tools:** EGJT or TGJT

**Conductor snipping tool:** CWST

**Conductor stripping tool:** CCAST

\*To designate a color, add suffix IW (Off White), EI (Electric Ivory), IG (International Gray), WH (White), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow), or VL (Violet).

^For lengths 1 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) before Y at the end of the part number. For example, the part number for a blue, 15-foot patch cord is UTPSP15BUY.

^^For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet) before Y at the end of the part number. For example, the part number for a blue, 5-meter patch cord is UTPSP5MBUY.

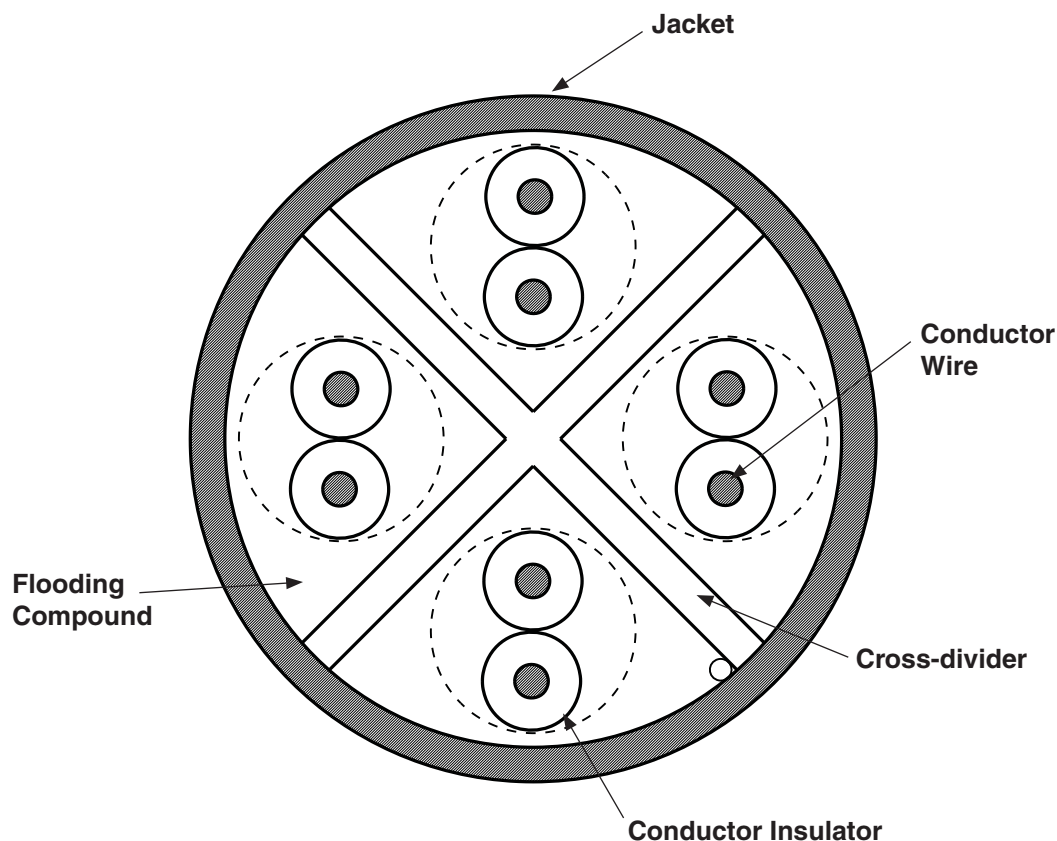
**PRODUCT IS TO BE USED IN DUCT AND CONDUIT INSTALLATIONS ONLY. NOT TO BE USED IN AERIAL OR DIRECT BURIAL APPLICATIONS.**

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## additional specification

Mechanical Test	
Ultimate Breaking Strength	>90 lbf (400 N)
Minimum Bend Radius	4 x Cable Diameter
Electrical Test	
Nominal Velocity of Propagation (NVP)	69% nominal

## cable construction



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