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

PANDUIT®

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

Electrical Performance:	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
Conductors/insulators:	23 AWG solid copper insulated with polyolefin
Standards compliance:	ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E; Telcordia Specification GR-421-CORE Water Penetration Requirement
Installation tension:	25 lbf (110 N) maximum
Temperature rating:	-22°F to 140°F (-30°C to 60°C) during installation -49°F to 176°F (-45°C to 80°C) during operation
Cable jacket:	Black UV-resistant and abrasion-resistant polyethylene (PE)
Cable diameter:	0.260 in (6.6mm) nominal
Cable weight:	25 lbs./1000 ft. (11 kg/305m)
Packaging:	1000 ft. (305m) on a reel

key features and benefits

Robust design	Protects against environmental elements that can cause electrical performance failures
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

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)

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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:	CJAST

*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.
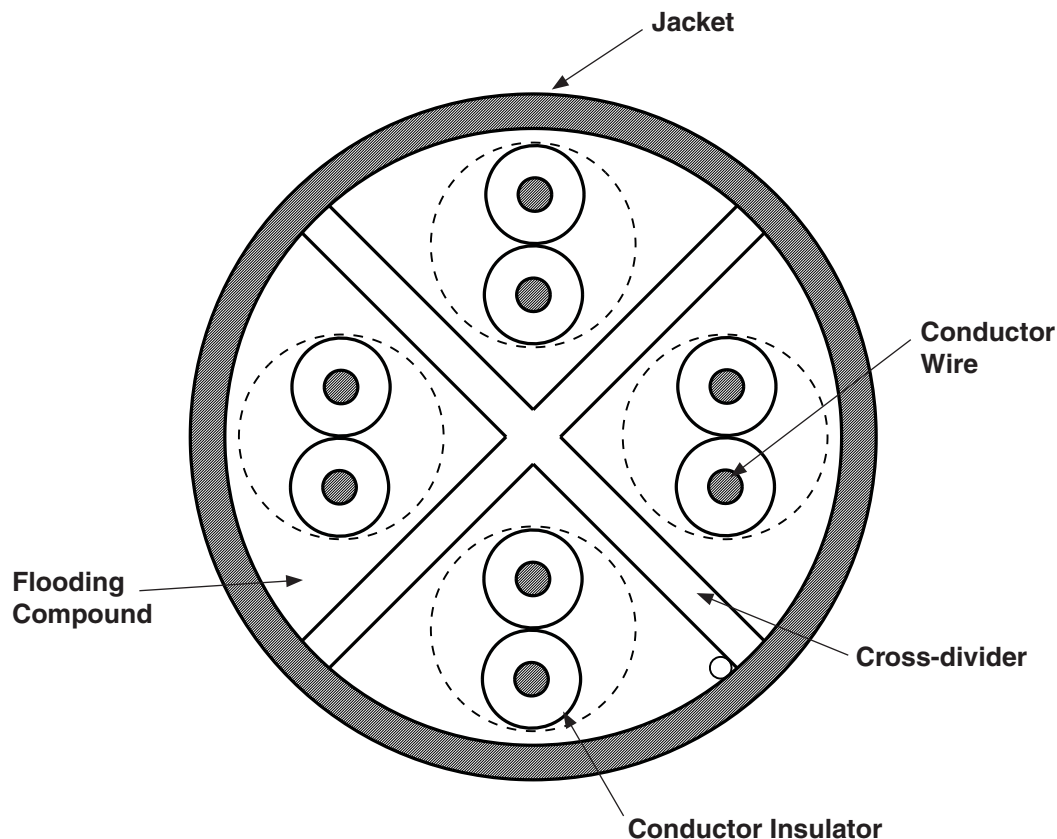
additional specification

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

Jacket

Conductor Wire

Flooding Compound

Cross-divider

Conductor Insulator

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

**Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300**

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