

TX6™ 10Gig™ UTP Copper Cable



SPECIFICATION SHEET

specifications

UTP 4 pair copper cable shall be constructed of 23 AWG conductors. The insulated conductors shall be twisted in pairs and all four pairs shall be laid into a plastic jacket. The cable shall have a patent pending design that suppresses Alien Crosstalk allowing 10Gb/s transmissions in a cable bundle.



technical information

Augmented Category 6 performance tested to 500 MHz: Exceeds the 10 Gigabit Draft 1.0 amendment to IEEE Std. 802.3an, October 2004 standard 4-connector channel requirements at swept frequencies up to 500 MHz, when used as part of the PANDUIT® TX6™ 10Gig™ Copper Cabling System

Category 6 performance: Exceeds all Category 6 component and channel standard requirements at swept frequencies up to 250 MHz

Cable conductors: Riser & LSZH – 100% polyethylene (PE) insulation
Plenum – 100% FEP insulation

Cable jacket: Riser & Plenum – 100% low-smoke, flame-retardant PVC
LSZH – 100% low-smoke, zero-halogen plastic

Cable diameter: Riser & Plenum – 0.31" (7.87mm)
LSZH – 0.33" (8.37mm)

Colors: Riser – Blue, Plenum – Blue, LSZH – Gray

Packaging: 1,000' (305m) Reel, 50 lbs. (22.7 kg)

Flame rating: Riser – NEC type CMR (UL) and FT4 rated
Plenum – NEC type CMP (UL) and FT4 rated
LSZH – IEC 60332-1 rated

Temperature rating: 32° to 140°F (0° to 60°C) during installation
14° to 140°F (-10° to 60°C) during operation

Installation tension: 25 lbs. (110N) maximum

key features and benefits

Internal pair separators Separates individual pairs to maintain and ensure exceptional cable performance

Cable filler Stranded with the core insulating pairs of the cable to increase separation of neighboring cables in a cable bundle

"Descending length" cable markings Easy identification of remaining cable reduces installation time

Individual conductor markings Eases termination and installation

applications

TX6™ 10Gig™ UTP Copper Cable is a component of the TX6™ 10Gig™ Copper Cabling System. This end-to-end system provides a cost effective media for ensuring that 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.

Usage of the TX6™ 10Gig™ Copper Cabling System includes high bandwidth applications in data centers (switch-to-switch links, storage area networks, aggregation of data), workstations (transfer of work-group files, scientific 3-D modeling) and web-enabling technologies (live video/audio broadcasting, voice over internet protocol (VoIP)).

TX6™ 10Gig™ UTP Copper Cable

Riser: PUR6X04BU-U
Plenum: PUP6X04BU-U
LSZH: PUL6X04DG-UE

TX6™ 10Gig™ Patch Cords*

3': UTP6X3
5': UTP6X5
7': UTP6X7
10': UTP6X10
14': UTP6X14
20': UTP6X20

* Offered in BL = Blue
Shown = Off White

TX6™ 10Gig™ Jack Module

Module: CJ6X88TG**

DP6™ 10Gig™ Flat Patch Panels

24 port, 1RU: DP246X88TG
48 port, 2RU: DP486X88TG

DP6™ 10Gig™ Angled Patch Panels

24 port, 1RU: DPA246X88TG
48 port, 2RU: DPA486X88TG

Module Termination Tools

Termination tool: EGJT
Wire snipping tool: CWST
Wire stripping tool: CCAST

**Substitute for module colors:

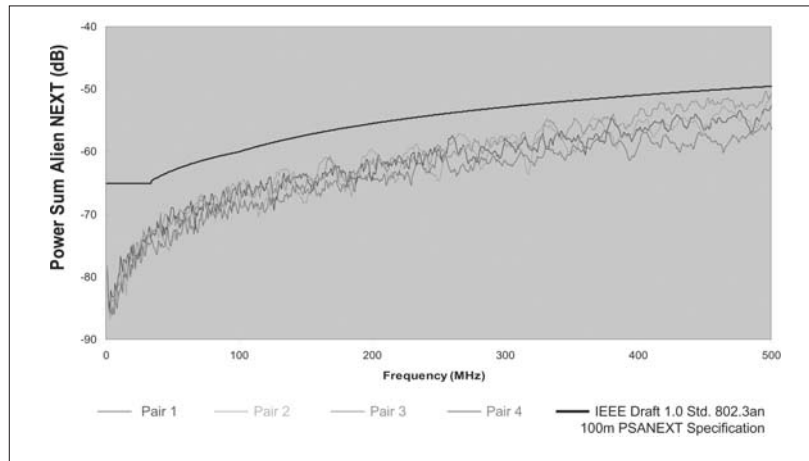
WH = White IW = Off White
AW = Arctic White RD = Red
EI = Electric Ivory BU = Blue
IG = Int'l Gray GR = Green
BR = Brown YL = Yellow
OR = Orange VL = Violet
BL = Black

TX6™ 10Gig™ UTP Copper Cable

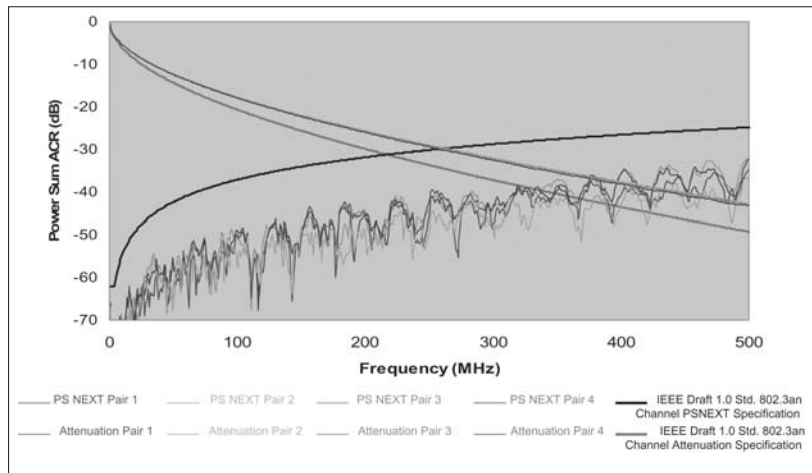
Additional TIA/EIA-568-B Specifications

Mechanical Test	PANDUIT Exceeds Industry Specifications
Ultimate Breaking Strength	>400 N (90 lb f)
Minimum Bend Radius	4 x O.D.
Electrical Test	PANDUIT Exceeds Industry Specifications
DC Resistance	<9.38 Ohm per 100m (328')
DC Resistance Unbalance	<5% at 20°C per ASTM D 4566
Mutual Capacitance	<5.6 nF per 100m (328') at 1 kHz and 20°C per ASTM D 4566
Capacitance Unbalance	<330 pF per 100m (328') at 1 kHz and 20°C per ASTM D 4566
Characteristic Impedance	100 Ohm +/- 15% up to 100 MHz per ASTM D 4566
Propagation Velocity	>62.1 (at 250 MHz) PANDUIT (CMR -70%, CMP -72%)

PSANEXT 100 Meter Channel



Power Sum ACR 100 Meter Channel



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SA-NCSP11

03/2005