

TX6™ 10Gig™ UTP Copper Cable

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® SYNERGIST™ 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 inches (7.87mm) LSZH – 0.33 inches (8.37mm)
Colors:	Riser – Blue, Plenum – Blue, LSZH – Gray
Packaging:	1,000 ft. (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 SYNERGIST™ 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 SYNERGIST™ 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 IP).

TX6™ 10Gig™ UTP Copper Cable

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

TX6™ 10Gig™ Patch Cords*

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

* Offered in BL = Blue,
Shown = Off White

TX6™ 10Gig™ Jack Module

Module:	CJ6X88TG**
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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:	CJAST

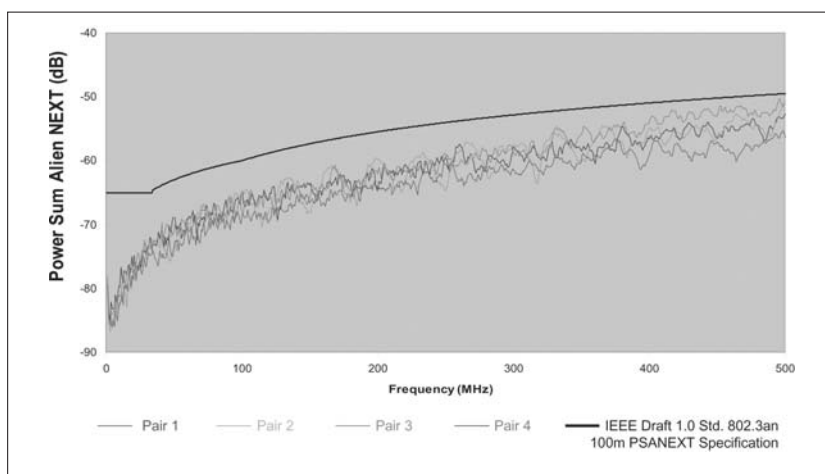
** Substitute for module colors:

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	

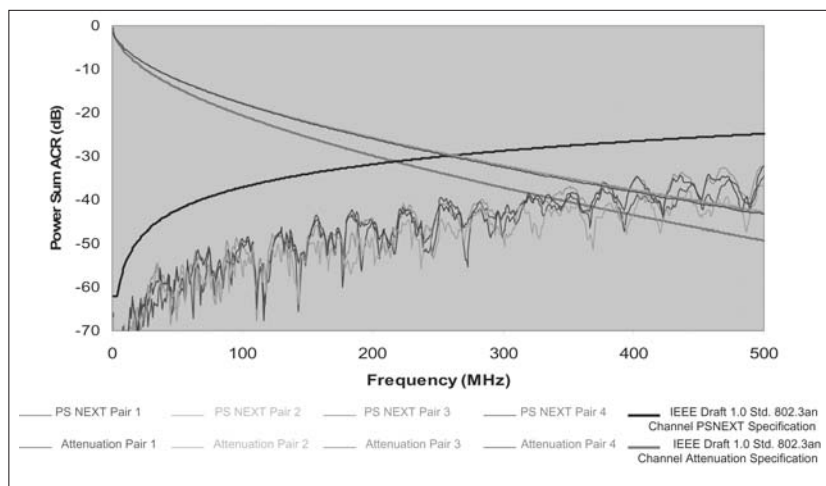
Additional TIA/EIA-568-B Specifications

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 ft.)
DC Resistance Unbalance	<5% at 20°C per ASTM D 4566
Mutual Capacitance	<5.6 nF per 100m (328 ft.) at 1 kHz and 20° C per ASTM D 4566
Capacitance Unbalance	<330 pF per 100m (328 ft.) 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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