

Guaranteed Performance Beyond the Standards

TX6A[™] 10Gig[™] Shielded Copper Cabling System

TX6A™ 10Gig™ Shielded Copper Cabling System is designed for optimum network performance, design flexibility and reliability to protect network investments well into the future. This system provides users with headroom assurance that will exceed ANSI/TIA-568-C.2 Category 6A and ISO 11801 Edition 2.1 Class E_A standards for the following key electrical parameters: Insertion Loss (IL), Near-End Crosstalk (NEXT), Power Sum NEXT, Power Sum ACR-F, Return Loss, Power Sum ACR-N, Power Sum Alien NEXT, and Power Sum AACR-F. Panduit offers several shielded cable constructions including U/FTP and S/FTP cables with swept frequencies up to 1500MHz.

To determine the guaranteed headroom performance, long and short channels of four connector topologies were constructed, tested and analyzed. To ensure true worst case conditions, channels were tested under the following conditions:

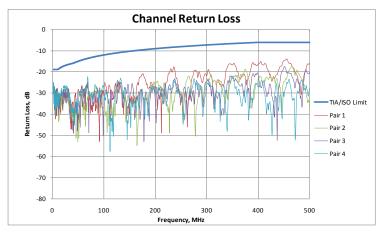
- Six-around-one configuration bundled horizontal cables and patch cords are tied every 6-8 inches and laid so the disturbed cable is always in the center of the bundle down the full length of the channel
- Four connector topologies the TX6A[™] 10Gig[™] Shielded Copper Cabling System was tested under worse case, 100 meter and 24 meter testing configurations per ANSI/TIA-568-C.2, Annex J
- Tested at frequencies from 1 MHz to 500 MHz Category 6A standards, under "real world" conditions through the use of industry recognized hand-held testers, not test analyzers or computer models

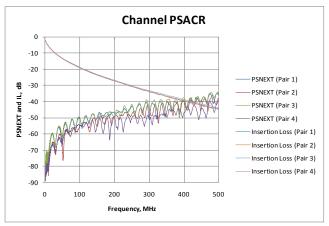
Guaranteed Channel Headroom		
Electrical Value	ANSI/TIA Category 6A	ISO Class E _A
Insertion Loss	3%	3%
NEXT	3.5 dB	2.5 dB
PSNEXT	5 dB	4 dB
PSACR-F	10 dB	10 dB
Return Loss	3 dB	3 dB
PSACR-N	6.5 dB	6.5 dB
PSANEXT	20 dB	20 dB
PSAACR-F	20 dB	20 dB

*Electrical values above are specified standards and consist of worst pair margin per ANSI/TIA-568-C.2 Category 6A and ISO 11801 Edition 2.1 Class EA standards.



Electrical Channel Performance Data





Components of the TX6A[™] 10Gig[™] Shielded Copper Cabling System

Description	Part Number	
Category 7A Copper Cable – S/FTP		
LSZH (1500 MHz)	PSL7A04WH-KD	
Category 7 Copper Cable – S/FTP		
LSZH (1000 MHz)	PSL7004WH-KD⁺	
LSZH (600 MHz)	PSL7004WH-CED	
Category 7 Shipboard/Offshore Copper Cab	ole – S/FTP	
LSZH (SHF1) (600MHz)	PSM7004BU-KEM‡	
LSZH (SHF2)	PSMD7004BL-LED^	
LSZH (SHF2)	PSMDA7004BL-LED^	
Category 6A Copper Cable – U/FTP		
Riser (500 MHz)	PUFR6X04BU-UG*	
Plenum (500 MHz)	PUFP6X04BU-UG*	
LSZH (500 MHz)	PUFL6X04WH-KD	
TX6A™ 10Gig™ Shielded Patch Cords		
Patch Cords (foot lengths)	STP6X3IG**	
Patch Cords (meter lengths)	STP6X1MIG***	
Mini-Com® TX6A™ 10Gig™ Jack Modules		
Shielded	CJS6X88TGY, CJSM6X88TG	
Mini-Com® All Metal Angled Modular Patch	Panels	
24-port, Angled, 1 RU	CPA24BLY	
48-port, Angled, 2 RU	CPA48BLY	
72-port, Angled, 2 RU	CPA72BLY	
Mini-Com® All Metal Modular Patch Panels		
24-port, Flat, 1 RU	CP24BLY	
48-port, Flat, 2 RU	CP48BLY	
72-port, Flat, 2 RU	CP72BLY	
Mini-Com® All Metal Modular Patch Panels	with Strain Relief Bar	
24-port, Flat, 1 RU	CP24WSBLY	
48-port, Flat, 2 RU	CP48WSBLY	
part number with D (500 meters). *For standard cable colors other than BU (Blue), replace BU (Blue), representation of one foot) and 25, 30, 35 to the desired length. For standard cable colors other than IG (In GR (Green), OR (Orange), or VL (Violet) to end of part number. If is STP6X15BU. ***For lengths 1 to 10 meters (increments of one meter) and 0.5, the part number to the desired length. For standard cable colors	WG (Window Gray). IG (International Gray). For length of 500 meters, replace M (1000 meters) at end of the light with WH (White), YL (Yellow), or (IG) International Gray. All feet, change the length designation in the part number ternational Gray), replace IG suffix with BL (Black), BU (Blue), RD (Red), YL (Yellow) For example, the part number of a blue 15-foot patch cord 1.5, 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in other than IG (International Gray) substitute IG suffix with BL (Black), VL (Violet) to the end of the part number. For example, the part number	