

### Key Features and Benefits of PanGen Category 6A Solutions:

- Designed to exceed ANSI/TIA-568.2-D channel requirements
- Installations covered by a 25-year comprehensive warranty program that provides performance to the latest industry standards
- All connectivity components are 100% performance-tested
- Quick installation of PanGen systems is provided through an extensive network of specially trained and certified installers
- Smallest Cat 6A Cable in the industry with innovative design providing guaranteed performance
- Jack modules feature the patent-pending Enhanced Giga-TX™ technology for terminations, which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Patch cords feature slender strain relief boots for easy access to high-density environments and a patented tangle-free latch which prevents snags and provides easy release for simple moves, adds and changes
- Patch panels are available in punchdown and modular styles and include flat and angled orientations
- With EPDs and HPDs achieved by both cable and connectivity, the solution counts towards two LEED® points and satisfies two out of five suppliers required per point.

### Recommended for:

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-T, 10 BASE-T, 2.5G BASE-T, 5G BASE-T
- HDBaseT™
- Best PoE performance in the industry to support PoE, PoE+ and PoE++ (4PPoE)
- LEED projects

### Category 6A Premium System

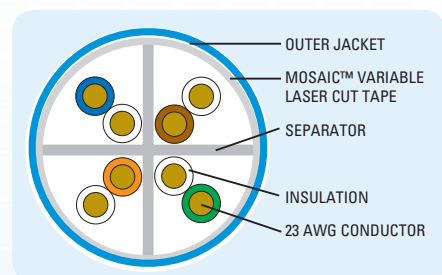
Electrical Value	Insertion Loss	NEXT	PSNEXT	ACR-F	PSACR-F	Return Loss	ACR-N	PSACR-N	PSANEXT	PSAACR-F
<b>Guaranteed Channel Headroom over ANSI/TIA Category 6A</b>	3%	3.5 dB	5 dB	10 dB	10 dB	3 dB	6 dB	6.5 dB	2 dB	10 dB

\* Electrical values are above the specified standards and consist of worst pair margin per ANSI/TIA 568.2-D Category 6A.

## GENERAL CABLE GenSPEED® 10 MTP™ CATEGORY 6A CABLE



### Cross-Section



### Features and Benefits

- Utilizes innovative Mosaic laser cut technology to provide superior protection against alien crosstalk.
- Random laser cut pattern delivers maximum protection against EMI noise interference.
- UL Listed CMP-LP 0.7A with certified performance for high power PoE applications up to 140 W.
- UL Listed CMR-LP 0.5A with certified performance for high power PoE applications up to 100 W.
- UL verified with certified performance for 100W power over HDBaseT.
- Smaller cable diameter allows for greater cable density, reducing cable management costs.

### Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+ and PoE++

**MOSAIC**  
VARIABLE LASER CUT TAPE

### PHYSICAL DATA

	CMP	CMR
Nominal Cable Diameter (in)	0.250	0.255
Nominal Cable Weight (lbs/1000 ft)	32	32
Minimum Bend Radius (in)	1	1
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +105	-20 to +75









### PART NUMBERS

Jacket Color	Pull-Pac®	
	CMP	CMR
Blue	7141839	7143839
White	7141840	7143840
Gray	7141841	7143841
Yellow	7141842	7143842
Green	7141843	7143843
Red	7141844	7143844
Purple	7141845	7143845
Orange	7141846	7143846
Pink	7141847	7143847
Black	7141848	7143848

\*Note: Spool and Spool Pac available upon request. Non-stock items may be subject to minimum order quantities.

### Mini-Com® Jack Modules

- Exceed ANSI/TIA-568.2-D Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E<sub>A</sub> channel standards
- Meet IEC 60512-99-002 for 2500 cycles of engaging and separating conductors under electrical load
- All jack modules are 100% performance-tested and individually serialized for future traceability
- Operating temperature: -10°C to 65°C (14°F to 149°F)
- Terminates full range of 22-26 AWG conductors allowed per ANSI/TIA-568.2-D
- UL Certified Environmental Product Declaration (EPD) contributes toward one LEED® credit under Material and Resource credit (MRc)
- Health Product Declaration™ (HPD™) contributes toward one LEED credit under MRc
- UL 2043 (suitable for use in air-handling spaces)
- Support IEEE 802.3af, 802.3at and IEEE 802.3bt Type 3 and Type 4 for all PoE applications up to 100 W



Part Number	Description	Part Number	Description
 <b>CJ6X88TGBU*</b>	Category 6A, RJ45, 8-position, 8-wire universal module	 <b>CJH6X88TGBU*</b>	Category 6A, RJ45, 8-position, 8-wire shuttered universal module with spring-shuttered door
 <b>CJ6X88TGBU*-24</b>	24-pack Category 6A, RJ45, 8-position, 8-wire universal module	 <b>CJ6X88TGBU*-C</b>	100-pack Category 6A, RJ45, 8-position, 8-wire universal module
 <b>CJUDCAPBU-X**</b>	45° angled up/down TG wire cap blue. For use with TX6A™ 10Gig jack.	 <b>CJLRCAPBU-X**</b>	45° angled left/right TG wire cap blue. For use with TX6A™ 10Gig jack.
 <b>FP6X88MTG</b>	Category 6A RJ45 UTP Field Term Plug for field termination of 4-pair unshielded twisted pair cable	 <b>FPUD6X88MTG</b>	Category 6A RJ45 Field Term Plug with 45° up/down angled wire cap for field termination of 4-pair unshielded twisted pair cable.

\* Product is listed in Blue. To designate a different color, replace BU (Blue) with available colors: IW (Off White), EI (Electric Ivory), IG (International Grey), WH (White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet).

\*\* Product also available in 100 pk. Replace -X with -C.

### Copper Patch Cords

- Exceed requirements of ANSI/TIA-568.2-D Category 6A, IEEE 802.3an-2006 and ISO 11801 Class E<sub>A</sub> channel standards
- Meet IEC 60512-99-002 for 2500 cycles of engaging and separating conductors under electrical load
- Support IEEE 802.3af, 802.3at and IEEE 802.3bt type 3 and type 4 for all PoE applications up to 100 W
- Available in a variety of colors and lengths for design flexibility
- Category 6A 28 AWG patch cords are less than 50% the size of traditional 24 AWG patch cords, with a diameter of only 0.185"
- UTP28X supports a 96-meter channel with 6 meters of patch

Diameter	Part Number	Description	Diameter	Part Number	Description
 <b>UTP6ASD3*</b> 0.240"		Category 6A (SD), 26 AWG, 10 Gb/s UTP patch cord with TX6A™ 10 Gig modular plugs on each end	 <b>UTP28X3*</b> 0.185"		Category 6A performance, 28 AWG, small diameter, 10 Gb/s UTP patch cord with modular plugs on each end

\* Available in lengths 1 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet. Patch cords listed in Off White. To designate other colors, add suffix to end of part number: BL (Black), BU (Blue), GR (Green), OR (Orange), RD (Red), YL (Yellow), or VL (Violet).

### Patch Panels

- Mount to standard EIA 19" racks
- DP6A™ 10Gig UTP Patch Panels exceed all industry performance standards for Category 6A
- DP6A™ 10Gig UTP patch panels utilize 110 punchdown termination on back panel and include retention cap for each port
- Optional label kits (DPLK24 and DPLK48) contain adhesive label holder and labels for easy port and panel identification

Part Number	Description	Part Number	Description
 <b>DP246X88TGY</b>	24-port, 1 RU, Category 6A patch panel with 24 RJ45, 8-position, 8-wire ports	 <b>DPA246X88TGY</b>	24-port angled, 1 RU, Category 6A patch panel with 24 RJ45, 8-position, 8-wire ports
 <b>DP486X88TGY</b>	48-port, 2 RU, Category 6A patch panel with 48 RJ45, 8-position, 8-wire ports	 <b>DPA486X88TGY</b>	48-port angled, 2 RU, Category 6A patch panel with 48 RJ45, 8-position, 8-wire ports

Note: For a full range of modular patch panels, contact Panduit customer service.