

PanGen® Category 6A System Solutions PREMIUM

PanGen®

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 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
Guaranteed Channel Headroom over ANSI/TIA Category 6A	3%	3.5 dB	5 dB	10 dB	10 dB	3 dB	6 dB	6.5 dB	4 dB	10 dB

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

GenSPEED® 10 MTP™ CATEGORY 6A CABLE



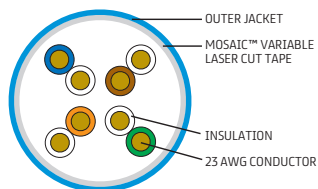
Features and Benefits

- 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-LP0.7A with certified performance for high power PoE applications up to 140 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++

CROSS-SECTION



PHYSICAL DATA

	CMP
Nominal Cable Diameter (in)	0.230
Nominal Cable Weight (lbs/1000 ft)	30
Minimum Bend Radius (in)	1
Maximum Pulling Force (lbs)	40
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +105

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38	7.00
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (Max) ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms	100 ± 15

PART NUMBERS

Jacket Color	CMP (Plenum)	
	Spool	
Blue	7151849	
White	7151850	
Gray	7151851	
Yellow	7151852	
Green	7151853	
Red	7151854	
Purple	7151855	
Orange	7151856	
Pink	7151857	
Black	7151858	

Non-stock items may be subject to minimum order quantities.

For additional Panduit or General Cable components, visit
www.pangensolutions.com

PANDUIT®

General Cable

DAT-0171-1119

PNG-0006-0820

PanGen® Category 6A System Solutions

PREMIUM



Mini-Com® Jack Modules

- Exceed ANSI/TIA-568.2-D Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E_A 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
CJ6X88TGBU*	Category 6A, RJ45, 8-position, 8-wire universal module	CJH6X88TGBU*	Category 6A, RJ45, 8-position, 8-wire shuttered universal module with spring-shuttered door
CJ6X88TGBU*-24	24-pack Category 6A, RJ45, 8-position, 8-wire universal module	CJ6X88TGBU*-C	100-pack Category 6A, RJ45, 8-position, 8-wire universal module
CJUDCAPBU-X**	45° angled up/down TG wire cap blue. For use with TX6A™ 10Gig jack	CJLRCAPBU-X**	45° angled left/right TG wire cap blue. For use with TX6A™ 10Gig jack.
FP6X88MTG	Category 6A RJ45 UTP Field Term Plug for field termination of 4-pair unshielded twisted pair cable	FPUD6X88MTG	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: 1W (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_A 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
0.240"	UTP6ASD3*	Category 6A (SD), 26 AWG, 10 Gb/s UTP patch cord with TX6A™ 10 Gig modular plugs on each end	0.185"	UTP28X3*	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
DP246X88TGY	24-port, 1 RU, Category 6A patch panel with 24 RJ45, 8-position, 8-wire ports	DPA246X88TGY	24-port angled, 1 RU, Category 6A patch panel with 24 RJ45, 8-position, 8-wire ports
DP486X88TGY	48-port, 2 RU, Category 6A patch panel with 48 RJ45, 8-position, 8-wire ports	DPA486X88TGY	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.

For additional Panduit or General Cable components, visit www.pangensolutions.com



General Cable

DAT-0171-1119

PNG-0006-0820