PanGen® Category 6A System Solutions
PREMIUM

PanGen®
STRUCTURED CABLING SOLUTIONS

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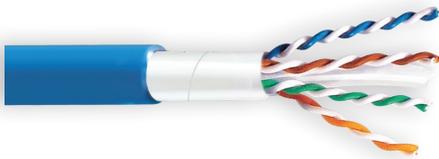
Recommended for:
- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-T, 10 BASE-T, 2.5G BASE-T, 5G BASE-T
- HDBaseT™
- Best PoE performance in the industry to support PoE, PoE+ and PoE++ (4PPoE)
- LEED projects

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	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.

GenSPEED® 10 MTP™ CATEGORY 6A CABLE
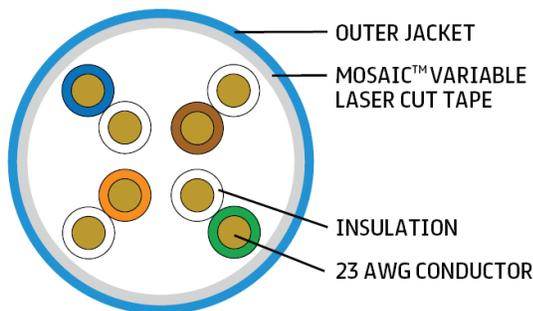
Features and Benefits

- 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-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++

PHYSICAL DATA	CMP	CMR
Nominal Cable Diameter (in)	0.230	0.255
Nominal Cable Weight (lbs/1000ft)	32	32
Minimum Bend Radius (in)	1	1
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C) Installation: Operation:	0 to +60 -20 to +105	0 to +60 -20 to +75

Cross-Section

- OUTER JACKET
- MOSAIC™ VARIABLE LASER CUT TAPE
- INSULATION
- 23 AWG CONDUCTOR

CMR version includes pair separator.

PART NUMBERS

	CMP (Plenum)	CMR (Non-Plenum)	
Jacket Color	Spool	Spool	Pull-Pac®
Blue	7151849	7143849	7143839
White	7151850	7143850	7143840
Gray	7151851	7143851	7143841
Yellow	7151852	7143852	7143842
Green	7151853	7143853	7143843
Red	7151854	7143854	7143844
Purple	7151855	7143855	7143845
Orange	7151856	7143856	7143846
Pink	7151857	7143857	7143847
Black	7151858	7143858	7143848

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

For additional Panduit or GenSPEED® components, visit www.pangensolutions.com

PANDUIT®

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PanGen® Category 6A System Solutions
PANDUIT CONNECTIVITY

PanGen® STRUCTURED CABLING SOLUTIONS

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		CJUDCAPBU-X**	45° angled up/down TG wire cap blue. For use with TX6A™ 10Gig jack
	CJ6X88TGBU*-C	100-pack Category 6A, RJ45, 8-position, 8-wire universal module		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.
	FC-ICCP0.5MBU	Category 6A UTP FieldCord Connector 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).

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 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
- UTP28X supports a 96-meter channel with 6 meters of patch
- Compatible with the *Rapid*ID™ Network Mapping System

	Diameter	Part Number	Description		Diameter	Part Number	Description
	0.250"	UTP6AX3*	Category 6A, 24AWG, 10Gb/s UTP patch cord with enhanced performance 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 50 feet (increments of one foot). 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), GY (Gray) 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 GenSPEED® components, visit www.pangensolutions.com

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