PanGen® Category 6A System Solutions
STANDARD

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)
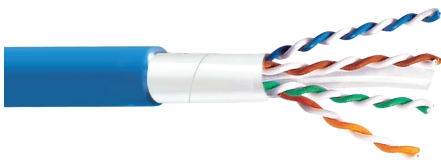- LEED projects

Category 6A Standard 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%	3.0 dB	5 dB	8 dB	8 dB	1 dB	6 dB	6.5 dB	2 dB	8 dB

* Electrical values are above the specified standards and consist of worst pair margin per ANSI/TIA 568.2-D Category 6A.
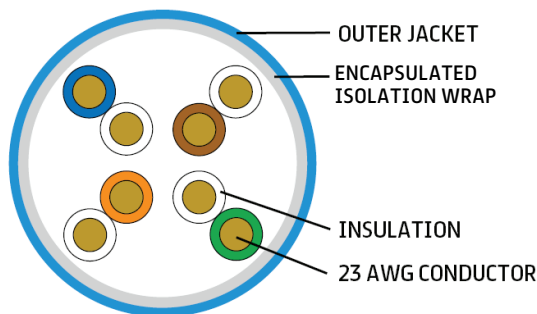
GenSPEED® 10 UTP CATEGORY 6A CABLE

Features and Benefits

- Simplified design and reduced bend radius allowing for ease in termination and routing.
- 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.

PHYSICAL DATA	CMP	CMR
Nominal Cable Diameter (in)	0.230	0.260
Nominal Cable Weight (lbs/1000ft)	30	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
- ENCAPSULATED ISOLATION WRAP
- INSULATION
- 23 AWG CONDUCTOR

CMR version includes pair separator.

PART NUMBERS	CMP (Plenum)		CMR (Non-Plenum)	
Jacket Color	Spool	Spool-Pac®	Spool	Pull-Pac®
Blue	7151819	7151869	7143819	7143800
White	7151820	7151870	7143820	7143801
Gray	7151821	7151872	7143821	7143803
Yellow	7151822	7151871	7143822	7143802
Green	7151823	7151875	7143823	7143806
Red	7151824	7151873	7143824	7143804
Purple	7151825	7151877	7143825	7143809
Orange	7151826	7151874	7143826	7143805
Pink	7151827	7151878	7143827	7143808
Black	7151828	7151876	7143828	7143807

Note: 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$_A$ 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

GenSPEED®
A Brand of Prysmian Group