



DELIVERING  
CUSTOMER-DRIVEN  
PERFORMANCE,  
QUALITY AND SERVICE



# PanGen<sup>®</sup>

STRUCTURED CABLING SOLUTIONS

Category 6A, 6, 5e High-Performance Copper  
and Fiber System Solutions



For 10 years, Panduit and General Cable have offered a comprehensive line of physical infrastructure solutions. This world-class partnership provides guaranteed network performance and system reliability for your most demanding customer requirements.

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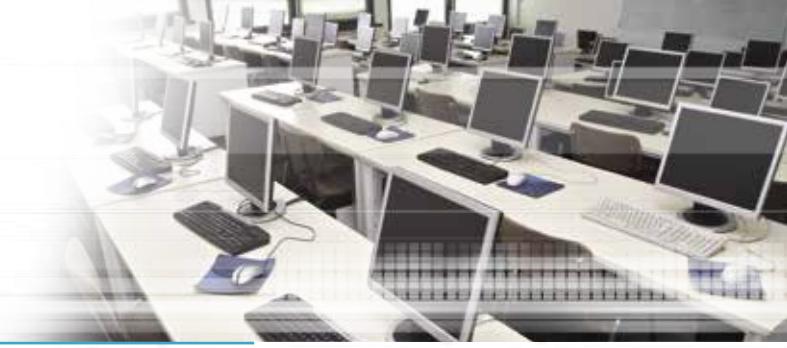
# PanGen®

STRUCTURED CABLING SOLUTIONS

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All information in this catalog is presented solely as a guide to product selection and is believed to be reliable. All printing errors are subject to correction in subsequent releases of this catalog. Although General Cable and Panduit have taken precautions to ensure the accuracy of the product specifications at the time of publication, the specifications of all products contained are subject to change without notice.



## A Shared Vision

For 10 years, Panduit and General Cable's world-class partnership has provided infrastructure solutions, guaranteed network performance and system reliability.

### Importance of Structured Cabling

A properly designed and implemented cabling infrastructure is a fundamental strategic asset of every business and institution. Carefully planning a structured cabling solution facilitates the delivery of new services, lower network maintenance costs and increased productivity. New high-bandwidth applications enable organizations to better fulfill their need for productivity and innovation in a rapidly changing world.

### High-Performance Solutions

Category 6A, 6, and 5e high-performance copper and fiber systems with network connectivity and cables provide a robust and optimized cabling infrastructure that exceeds all electrical parameters.

### World-Class Installation & Technical Support

Quality installation of PanGen® solutions is provided through an extensive network of specially trained and certified installers. Meeting stringent qualification requirements, our installers receive continuous training on products, standards and installation practices. PanGen solutions come with prompt, nationwide technical support for customers from the design stage to post-system installation support.

### Complete Solution Warranty

All PanGen installations are eligible for the PanGen 25-year warranty\*, which offers the following advantages:

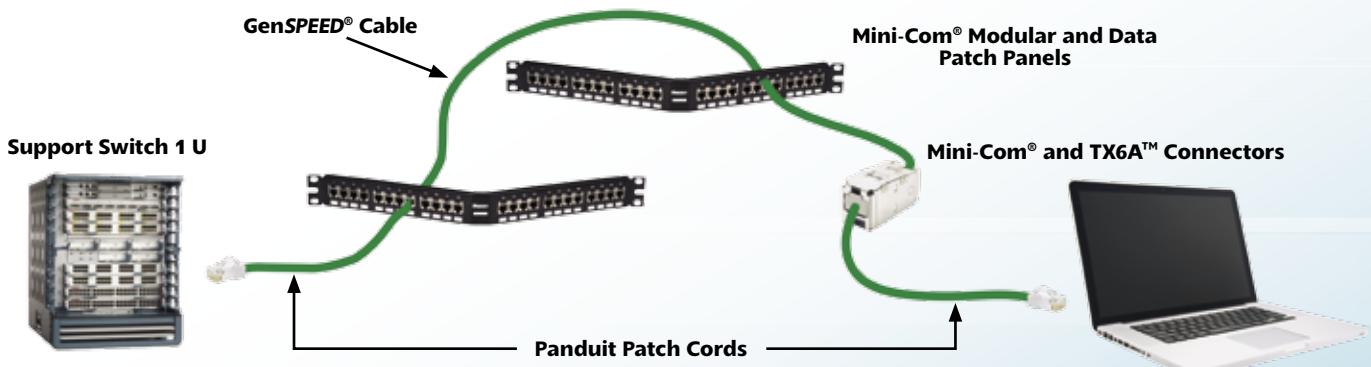
- 100% warranty coverage to repair or replace defective components
- Compliance with all applicable ANSI, TIA/EIA and ISO standards
- Backed by an installed channel performance guarantee
- One point of contact for all inquiries (USAPartners@panduit.com)

\* To be eligible for the PanGen® system warranty, the system must be installed by a Panduit Certified installer, meet certain requirements, and be registered by Panduit. The PanGen system warranty is subject to various terms, conditions and limitations.

## Comprehensive PanGen® Solutions

PanGen® System	Description	Connector	Patch Cord	Patch Panel	Cable
Cat 6A	Premium-level Category 6A system	Mini-Com® TX6A™ 10Gig™ UTP Jack Modules	TX6A™ 10Gig™ UTP Patch Cords	Mini-Com® Angled and Flat Flush Mount Modular Patch Panels	GenSPEED® 10 MTP
	Category 6A system	Mini-Com® TX6A™ 10Gig™ UTP Jack Modules	TX6A™ 10Gig™ UTP Patch Cords	Mini-Com® Angled and Flat Flush Mount Modular Patch Panels	GenSPEED® 10,000
	Category 6A shielded system	TX6A™ 10Gig™ Shielded Jack Modules	TX6A™ 10Gig™ Shielded Patch Cords	Mini-Com® Angled and Flat All-Metal Shielded Modular Patch Panels	GenSPEED® 10,000 Shielded
Cat 6	Premium-level Category 6 system	Mini-Com® TX6™ PLUS UTP Jack Modules	TX6™ PLUS UTP Patch Cords	DP6™ PLUS Punchdown Patch Panels and Mini-Com® Angled and Flat Flush Mount Modular Patch Panels	GenSPEED® 6500
	Mid-level Category 6 system	Mini-Com® TX6™ PLUS UTP Jack Modules	TX6™ PLUS UTP Patch Cords	DP6™ PLUS Punchdown Patch Panels and Mini-Com® Angled and Flat Flush Mount Modular Patch Panels	GenSPEED® 6000
Cat 5e	Premium-level Category 5e system	Mini-Com® TX5e™ UTP Jack Modules	TX5e™ UTP Patch Cords	DP5e™ Punchdown Patch Panels and Mini-Com® Angled and Flat Flush Mount Modular Patch Panels	GenSPEED® 5500
Fiber	Premium-level 10 Gb/s/10km+ link distance Low-water peak SM fiber	Mini-Com® Fiber Optic Adapter Modules Opticom® Fiber Adapter Panels Field Polish and Pre-Polished Fiber Optic Connectors	Opti-Core® Fiber Optic Patch Cords and Pigtails	Opticom® Rack Mounted Enclosures, Trays and Drawers	NextGen® Premise Indoor/Outdoor Outside Plant Blolite® Blown Fiber
	Extended-level 10 Gb/s/500 meter link distance 50 micron fiber	Mini-Com® Fiber Optic Adapter Modules Opticom® Fiber Adapter Panels Field Polish and Pre-Polished Fiber Optic Connectors	Opti-Core® Fiber Optic Patch Cords and Pigtails	Opticom® Rack Mounted Enclosures, Trays and Drawers	NextGen® Premise Indoor/Outdoor Outside Plant Blolite® Blown Fiber
	Premium-level 10 Gb/s 300 meter link distance 50 micron fiber	Mini-Com® Fiber Optic Adapter Modules Opticom® Fiber Adapter Panels Field Polish and Pre-Polished Fiber Optic Connectors	Opti-Core® Fiber Optic Patch Cords and Pigtails	Opticom® Rack Mounted Enclosures, Trays and Drawers	NextGen® Premise Indoor/Outdoor Outside Plant Blolite® Blown Fiber

## Example of a PanGen System



Different configurations available. Discuss with your PanGen sales representative.

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## PanGen® Category 6A System Solutions

### PanGen® 6A Premium

#### Key Features and Benefits of the PanGen 6A Premium Solution:

- Designed to exceed ANSI/TIA 568-C.2 channel requirements
- Installations covered by a 25-year comprehensive warranty program that provides performance to the latest industry standards
- A single point of contact for all PanGen inquiries
- All connectivity components are 100% performance-tested
- Quick installation of PanGen systems is provided through an extensive network of specially trained and certified installers

#### PanGen 6A Premium Solution Delivers:

- Outstanding performance on all electrical parameters to provide a system that exceeds all applicable standards
- A 10 MTP™ unshielded-twisted pair (UTP) design that performs like a shielded or foiled twisted pair (STP/FTP) cable, providing industry-leading protection from external cable noise sources, also known as alien crosstalk
- Mosaic Crossblock™, a thin tape made up of individual metallic blocks separated by an insulating layer. Since there is no metal-to-metal contact, there is no path for current to flow longitudinally, and thus, no need for grounding
- TRU-Mark® footage marking system to help eliminate unused lengths of cable and save installation time
- Jack modules feature the patent-pending Enhanced Giga-TX™ technology for terminations, which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Keyed connectivity available to mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed ports accommodating discrete networks
- 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

For additional Panduit components, visit [www.panduit.com](http://www.panduit.com)

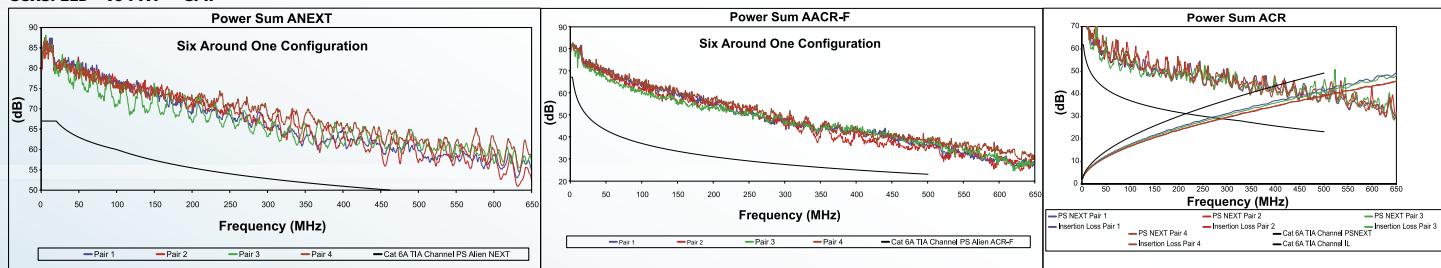
#### Category 6A Premium System

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

\*Electrical values are above the specified standards and consist of worst pair margin per ANSI/TIA 568-C.2 Category 6A.

#### Performance Charts

GenSPEED® 10 MTP™ CMP



## PanGen® Category 6A System Solutions

### PanGen® 6A

#### **Key Features and Benefits of the PanGen 6A Solution:**

- Designed to meet ANSI/TIA 568-C.2 channel requirements
- Installations covered by a 25-year comprehensive warranty program that provides performance to the latest industry standards
- A single point of contact for all PanGen inquiries
- All connectivity components are 100% performance-tested
- Quick installation of PanGen systems is provided through an extensive network of specially trained and certified installers

Category 6A UTP Copper Cable is a component of the TX6A™ 10 Gig™ UTP Copper Cabling System when installed according to the above length considerations. Interoperable and backwards compatible, this end-to-end system provides design flexibility to protect network investments well into the future. With certified performance to the ISO 11801 Class EA and ANSI/TIA 568-C.2 Category 6A standards. Usage of the TX6A™ 10 Gig™ UTP Copper Cabling System includes:

- Ethernet 10G BASE-T
- Virtual business management applications

#### **PanGen 6A Solution Delivers:**

- Compliant performance on all electrical parameters to provide a system that meets all applicable TIA standards
- Cable contains an aerated jacket that encompasses the inner core to reduce the capacitance effect of the outer sheath and permits consistent electrical performance at a smaller overall size
- TRU-Mark® footage marking system to help eliminate unused lengths of cable and save installation time
- Jack modules feature the patent-pending Enhanced Giga-TX™ technology for terminations, which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Keyed connectivity available to mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed ports accommodating discrete networks
- 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

For additional Panduit components, visit [www.panduit.com](http://www.panduit.com)

## Panduit Connectivity for PanGen® Category 6A Systems

### Mini-Com® TX6A™ 10Gig™ UTP Jack Modules

- Exceed ANSI/TIA 568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class EA channel standards
- Exceed ANSI/TIA 568-C.2 Category 6A and IEC 61156-5 Category 6A component standards
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
- Utilize patent-pending enhanced Giga-TX™ Technology that optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- All jack modules are 100% performance-tested and individually serialized for future traceability
- Compatible with all Mini-Com Modular Patch Panels, Faceplates, and Surface Mount Boxes
- Universal termination cap is color-coded for T568A and T568B wiring schemes

Part Number	Part Description
<b>CJ6X88TGIW*</b>	Category 6A, RJ45, 8-position, 8-wire universal module
<b>CJ6X88TGIW-24</b>	24-pack Category 6A, RJ45, 8-position, 8-wire universal module
<b>CJ6X88TGIW-C</b>	100-pack Category 6A, RJ45, 8-position, 8-wire universal module
<b>CJK6X88TGBL†</b>	Category 6A, RJ45, 8-position, 8-wire keyed module

\* For standard colors, replace color suffix with 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). To order bulk packs of 24 jack modules, add -24 to end of part number.

† For standard colors other than Black, replace suffix BL (Black) with BU (Blue), RD (Red), YL (Yellow), GR (Green), or (OR) Orange, each color representing a different keyed configuration.



**CJ6X88TGIW\***



**CJ6X88TGIW-24**



**CJ6X88TGIW-C**



**CJK6X88TGBL**

## Panduit Connectivity for PanGen® Category 6A Systems

### TX6A™ 10Gig™ UTP Copper Patch Cords with MaTriX Technology

- Exceed requirements of ANSI/TIA 568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E<sub>A</sub> channel standards
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
- 100% performance-tested
- Available in a variety of colors and lengths for design flexibility

Part Number	Part Description
<b>UTP6A3*</b>	Category 6A, 24 AWG, 10Gb/s UTP patch cord with TX6A™ 10Gig™ Modular Plugs on each end
<b>UTP6ASD3*</b>	Category 6A (SD), 26 AWG, 10 Gb/s UTP patch cord with TX6A™ 10Gig™ Modular Plugs on each end
<b>UTPK6A3BL<sup>+</sup></b>	Keyed, Category 6A, 24 AWG, 10Gb/s UTP patch cord with TX6A™ 10Gig™ Keyed Modular Plug on one end and TX6A™ 10Gig™ Non-Keyed Modular Plug on the other end

\* Available in lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet. For cable colors other than Off White, add suffix BL (Black), BU (Blue), GR (Green), OR (Orange), RD (Red), YL (Yellow), or VL (Violet) to the part number. For example, the part number for a blue, 15-foot patch cord is UTP6A15BU.

<sup>+</sup> Available in lengths 3, 5, 7, 10, and 14 feet. For cable colors other than Black, replace suffix BL (Black) with BU (Blue), RD (Red), YL (Yellow), GR (Green), or OR (Orange), each color representing a different keyed configuration.



**UTP6A3**



**UTP6ASD3**



**UTPK6A3BL**

## Panduit Connectivity for PanGen® Category 6A Systems

### DP6A™ 10Gig™ UTP Patch Panels

- Mount to standard TIA/EIA 19" racks
- DP6A™ 10Gig™ UTP Patch Panels exceed all industry performance standards for Category 6A and meet requirement of IEEE 802.3af and IEEE 802.3at for PoE applications
- Angled versions allow for higher density applications by easily routing the patch cords to each side of the panel, eliminating the need for horizontal cable management

- Exceed requirement of ANSI/TIA 568-C.2 Category 6A, IEEE 802.3 and 2006, and ISO Class E<sub>A</sub> channel standards
- Exceed requirement of ANSI/TIA 568-C.2 Category 6A and IEC 61156-5 Category 6A component standards
- Each port is 100% tested to ensure NEXT and RL performance and is individually serialized to support traceability
- 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
- Color-coded for T568A and T568B wiring schemes

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



DP246X88TGY



DP486X88TGY



DPA246X88TGY



DPA486X88TGY

## Panduit Connectivity for PanGen® Category 6A Systems

### Modular Faceplate Patch Panels

- Release snap feature on faceplate allows front access to installed modules

Part Number	Part Description
<b>CPPL24WBLY</b>	24-port, 1 RU patch panel with labels, supplied with six factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPL48WBLY</b>	48-port, 2 RU patch panel with labels, supplied with twelve factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPLA24WBLY</b>	24-port angled, 1 RU patch panel with labels, supplied with six factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPLA48WBLY</b>	48-port angled, 2 RU patch panel with labels, supplied with twelve factory-installed CFFPL4-type front removable snap-in faceplates



**CPPL24WBLY**



**CPPL48WBLY**



**CPPLA24WBLY**



**CPPLA48WBLY**

### Modular Flush Mount Patch Panels

- Rear-mounted faceplates allow modules to be flush with front of patch panel
- Pre-printed numbers above each port for easy identification

Part Number	Part Description
<b>CPP24FMWBLY</b>	24-port, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPP48FMWBLY</b>	48-port, 2 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA24FMWBLY</b>	24-port angled, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA48FMWBLY</b>	48-port angled, 2 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPP48HDWBLY</b>	48-port high-density, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA48HDWBLY</b>	48-port angled, high-density, 1 RU, flush mount patch panel supplied with rear-mounted faceplates



**CPP24FMWBLY**



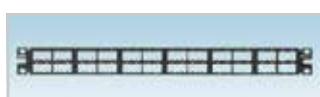
**CPP48FMWBLY**



**CPPA24FMWBLY**



**CPPA48FMWBLY**



**CPP48HDWBLY**



**CPPA48HDWBLY**

## GenSPEED® 10 MTP™ Category 6A Cable

### Features and Benefits

- 10 MTP™ unshielded-twisted pair (UTP) design performs like a shielded or foiled-twisted pair (STP/FTP) cable, providing industry-leading protection from external cable noise sources, also known as alien crosstalk (PSANEXT and PSAACRF)
- Mosaic Crossblock™ is a thin tape made up of individual metallic blocks separated by an insulating layer. Since there is no metal-to-metal contact, there is no path for current to flow longitudinally, and thus, no need for grounding
- The Internal Separator optimizes internal pair geometry to yield superior electrical performance and maintain flexibility. This unique cross-web stabilizes each pair to create a smaller, **round** cable profile
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

### Applications

- IEEE 802.3 10G BASE-T, 100 BASE-T
- 100 BASE-TX, 10 BASE-T, 1000 BASE-TX
- 155 Mb/s ATM
- IEEE 802.3af for PoE
- IEEE 802.3at for PoE Plus
- ANSI X3.263: 100Mb/s

### Standard Compliances

- ANSI/TIA 568-C.2
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



featuring



Data subject to change without notice.



### CONSTRUCTION

#### Conductors

- 23 AWG solid bare annealed copper

#### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

#### Color Code

- Pair 1: Blue-White
- Pair 2: Orange-White
- Pair 3: Green-White
- Pair 4: Brown-White

#### Separator

- Cross-Web

#### Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

### PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.305	0.292
Nominal Cable Weight (lbs/1000 ft)	40	44
Minimum Bend Radius (in)	1.25	1.25
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

### PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133849	7131849
White	7133850	7131850
Yellow	7133852	7131852
Gray	7133851	7131851
Red	7133854	7131854
Orange	7133856	7131856
Green	7133853	7131853
Black	7133858	7131858
Pink	7133857	7131857
Purple	7133855	7131855

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



## Cabling

# PanGen® Category 6A System Solutions

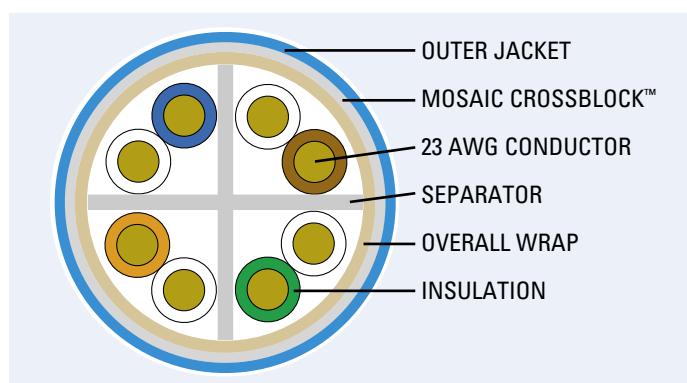
### GenSPEED® 10 MTP™ ELECTRICAL PERFORMANCE

Frequency MHz	PSACR*(min)	ACR*(min)	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)		PSAACRF (min)			
										TIA 568-C.2	TIA 568-C.2	TIA 568-C.2	General Cable Guaranteed	General Cable Typical	
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	73.0	79.0	67.0	73.0	79.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	73.0	79.0	66.2	72.2	78.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	73.0	79.0	58.2	64.2	70.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	73.0	79.0	54.1	60.1	66.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	73.0	79.0	52.2	58.2	64.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	73.0	79.0	48.3	54.3	60.3
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	71.6	77.6	42.3	48.3	54.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	68.5	74.5	38.2	44.2	50.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	65.9	71.9	34.7	40.7	46.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	64.0	70.0	32.2	38.2	44.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	62.5	68.5	30.2	36.2	42.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	61.3	67.3	28.7	34.7	40.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	59.5	65.5	26.2	32.2	38.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	58.0	64.0	24.2	30.2	36.2

Note: Values are expressed in dB per 100 m (328 ft) length @ 20°C.

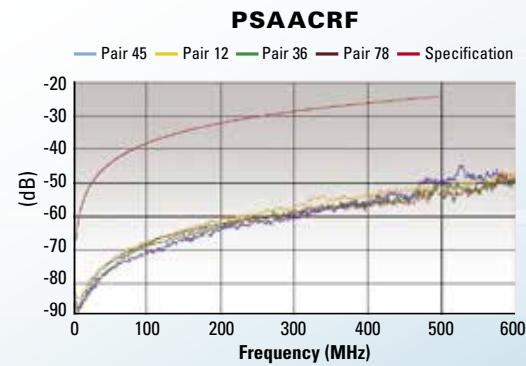
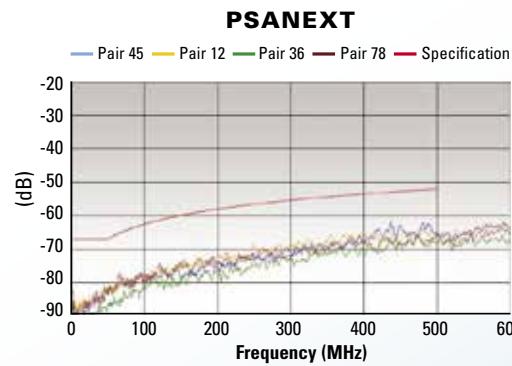
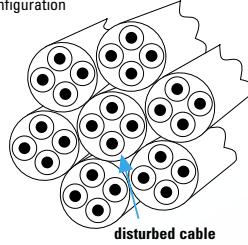
\*PSACR & ACR not specified in ANSI/TIA 568-C.2

### TYPICAL GenSPEED® 10 MTP™ CATEGORY 6A CROSS-SECTION



### 4 PAIR CABLES: Bundles of 7 Test Results

Six-around-one configuration



**GenSPEED®**

 General Cable

## GenSPEED® 10,000 Category 6A Cable

### Features And Benefits

- Extensive design development conducted to find the perfect blend of product performance and consistent manufacturability
- Innovative T-Top cross-web provides superior internal electrical characteristics by locking the pairs into a systematic orientation within the cable
- Superior flame and smoke characteristics achieved through innovative design and careful selection of materials with certified suppliers
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- AirEs jacket provides superior flexibility and maximum separation of pairs from cable to cable for consistent PSANEXT and PSAACRF performance
- Made in U.S.A.

### Applications

- IEEE 802.3: 10G BASE-T, 100 BASE-T
- 100 BASE-TX, 10 BASE-T, 1000 BASE-TX
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af for PoE
- IEEE 802.3at for PoE Plus

### Standard Compliances

- ANSI/TIA 568-C.2
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



RoHS Compliant  
Directive 2002/95/EC

TIA 568-C.2



### CONSTRUCTION

#### Conductors

- 23 AWG solid bare annealed copper

#### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

#### Color Code

- Pair 1: Blue-White
- Pair 2: Orange-White
- Pair 3: Green-White
- Pair 4: Brown-White

#### Separator

- T-Top cross-web

#### Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

### PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.330	0.320
Nominal Cable Weight (lbs/1000 ft)	42	45
Minimum Bend Radius (in)	1.5	1.5
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

### PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133819	7131819
White	7133820	7131820
Yellow	7133822	7131822
Gray	7133821	7131821
Red	7133824	7131824
Orange	7133826	7131826
Green	7133823	7131823
Black	7133828	7131828
Pink	7133827	7131827
Purple	7133825	7131825

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

Data subject to change without notice.

## PanGen® Category 6A System Solutions

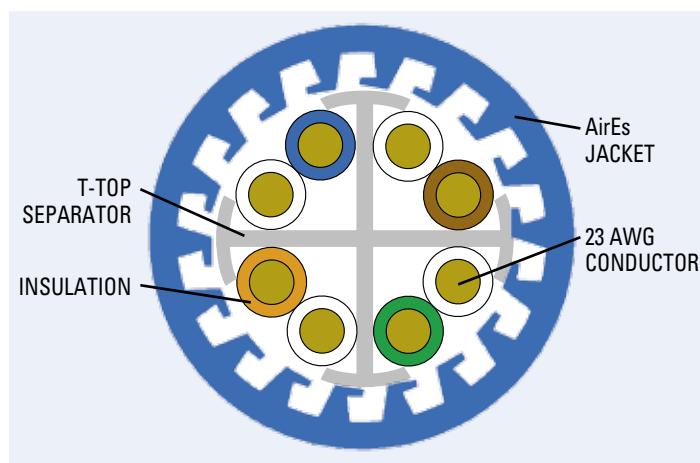
### GenSPEED® 10,000 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)	PSAACRF (min)
<b>1</b>	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	67.0
<b>4</b>	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	66.2
<b>8</b>	53.5	55.5	5.3	58.8	60.8	46.7	49.7	24.5	40.0	67.0	60.1
<b>10</b>	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	58.2
<b>16</b>	46.7	48.7	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	54.1
<b>20</b>	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	52.2
<b>25</b>	41.9	43.9	9.4	51.3	53.3	36.8	39.8	24.3	36.0	67.0	50.2
<b>31.25</b>	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	48.3
<b>62.5</b>	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	42.3
<b>100</b>	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	38.2
<b>200</b>	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	32.2
<b>250</b>	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	30.2
<b>300</b>	0.8	2.8	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	28.7
<b>400</b>	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	26.2
<b>500</b>	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	24.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.

\*PSACR & ACR not specified in ANSI/TIA 568-C.2

### GenSPEED® 10,000 CATEGORY 6A CROSS-SECTION



### ELECTRICAL CHARACTERISTICS

<b>DC Resistance (max)</b> Ohms/100 m (328 ft) @ 20°C	8.9
<b>DC Resistance Unbalance (max)</b> Individual Pair %	4.0
<b>Delay Skew (max)</b> ns/100 m	35
<b>Nom. Velocity of Propagation</b> % Speed of Light	70
<b>Characteristic Impedance</b> Frequency (f): 1-500 MHz	Ohms 100 ± 15

## PanGen® Category 6A Shielded System Solutions

### PanGen® 6A Shielded

#### Key Features and Benefits of the PanGen 6A Shielded Solution:

- Designed to exceed ANSI/TIA 568-C.2 channel requirements
- Installations covered by a 25-year comprehensive warranty program that provides performance to the latest industry standards
- A single point of contact for all PanGen inquiries
- All connectivity components are 100% performance-tested
- Quick installation of PanGen systems is provided through an extensive network of specially trained and certified installers

#### PanGen 6A Shielded Solution Delivers:

- Outstanding performance on all electrical parameters to provide a system that exceeds all applicable standards
- A shielded (STP) twisted pair cable with individually shielded pairs for optimized isolation between pairs and immunity from external noise as well as an overall shielded construction
- TRU-Mark® footage marking system to help eliminate unused lengths of cable and save installation time
- Jack modules feature the patent-pending Enhanced Giga-TX™ technology for terminations, which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Keyed connectivity available to mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed ports accommodating discrete networks
- 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
- Modular patch panels are available in flat and angled styles

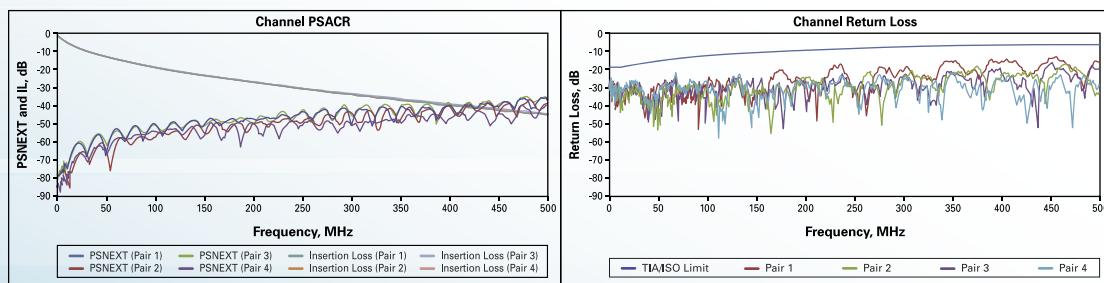
For additional Panduit components, visit [www.panduit.com](http://www.panduit.com)

#### Category 6A Shielded System

Electrical Value	Guaranteed Channel Headroom over ANSI/TIA Category 6A	Guaranteed Channel Headroom over ISO Class EA
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 are above the 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.

#### Performance Charts GenSPEED® 10,000 F/UTP (ScTP)



## Jack Modules

## PanGen® Category 6A Shielded System Solutions

# Panduit Connectivity for PanGen® Category 6A Shielded Systems

### Mini-Com® TX6A™ 10Gig™ Shielded Jack Modules

- Exceed ANSI/TIA 568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class EA channel standards
- Exceed ANSI/TIA 568-C.2 Category 6A and IEC 61156-5 Category 6A component standards
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
- Utilize patent-pending enhanced Giga-TX™ technology that optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- All jack modules are 100% performance-tested and individually serialized for future traceability

- Fully grounded and bonded to patch panel when installed in Panduit All-Metal Modular Patch Panels
- 0.187" grounding tab provides conductive path for grounding individual jacks
- Compatible with Mini-Com Modular Patch Panels, Faceplates, and Surface Mount Boxes
- Universal termination cap is color-coded for T568A and T568B wiring schemes

Part Number	Part Description
<b>CJS6X88TGY</b>	Category 6A, RJ45, 8-position, 8-wire universal module
<b>CJS6X88TGY-24</b>	24-pack Category 6A, RJ45, 8-position, 8-wire universal module
<b>CJSK6X88TGBL*</b>	Category 6A, RJ45, 8-position, 8-wire keyed module

\*For standard colors other than Black, replace suffix BL (Black) with BU (Blue), RD (Red), YL (Yellow), GR (Green), or OR (Orange), each color representing a different keyed configuration.  
Shield grounding requires proper installation of shielded jack module and the use of shielded patch cords and cable. For grounding shielded modules not installed in a shielded patch panel, see Panduit's shielded jack module grounding kit, CJSRK-XY.



**CJS6X88TGY**



**CJS6X88TGY-24**



**CJSK6X88TGBL**

## Panduit Connectivity for PanGen® Category 6A Shielded Systems

### TX6A™ 10Gig™ Shielded Copper Patch Cords

- Exceed requirements of ANSI/TIA 568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E<sub>A</sub> channel standards
- Exceed requirements of ANSI/TIA 568-C.2 Category 6A and ISO 11801 Class E<sub>A</sub> component standards
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
- Each patch cord is 100% performance-tested to component limits and wired T568B
- Plug performance in center of TIA/EIA component range, ensuring interoperability and 10G BASE-T Ethernet channel performance
- Patented tangle-free latch prevents snags and provides easy release, saving time on frequent moves, adds, and changes
- Available in a variety of colors and lengths for design flexibility

Part Number	Part Description
<b>STP6X3BU*</b>	Keyed, Category 6A, 10 Gb/s shielded patch cord with TX6A™ 10Gig™ Keyed Modular Plug on one end and TX6A™ 10Gig™ Non-Keyed Modular Plug on the other end
<b>STPK6X3BL†</b>	Keyed, Category 6A, 26 AWG, shielded patch cord with TX6™ PLUS Keyed Modular Plug on one end and TX6™ PLUS Non-Keyed Modular Plug on the other end

\* Available in lengths 2 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet. For cable colors other than IG (International Grey), replace suffix IG with BL (Black), BU (Blue), GR (Green), OR (Orange), RD (Red), YL (Yellow), or VL (Violet) before the Y at the end of the part number. For example, the part number for a blue 15-foot patch cord is STP6X15BU.

† Available in lengths 3, 5, 7, 10, and 14 feet. For cable colors other than Black, replace suffix BL (Black) with BU (Blue), RD (Red), YL (Yellow), GR (Green), or OR (Orange), each color representing a different keyed configuration.



STP6X3BU



STPK6X3BL

## Patch Panels

## PanGen<sup>®</sup> Category 6A Shielded System Solutions

# Panduit Connectivity for PanGen<sup>®</sup> Category 6A Shielded Systems

### Mini-Com<sup>®</sup> All-Metal Shielded Modular Patch Panels

- Mount to standard TIA/EIA 19" racks
- Accept Mini-Com Modules for shielded applications
- Provide write-on areas for port identification
- CPT removal tool allows easy moves, adds, and changes of shielded jack modules
- Made of stainless steel

Part Number	Part Description
<b>CP24BLY</b>	24-port, 1 RU, all-metal modular patch panel
<b>CPA24BLY</b>	24-port, 1 RU, angled, all-metal modular patch panel
<b>CP24WSBLY</b>	24-port, 1 RU, all-metal modular patch panel with strain relief bar
<b>CP48BLY</b>	48-port, 2 RU, all-metal modular patch panel
<b>CPA48BLY</b>	48-port, 2 RU, angled, all-metal modular patch panel
<b>CP48WSBLY</b>	48-port, 2 RU, all-metal modular patch panel with strain relief bar
<b>CP48HDBL</b>	48-port, 1 RU, high-density, all-metal modular patch panel
<b>CPA48HDBL</b>	48-port, 1 RU, angled, high-density, all-metal modular patch panel

HD patch panels do not require CPT tool.



**CP24BLY**



**CPA24BLY**



**CP24WSBLY**



**CP48BLY**



**CPA48BLY**



**CP48WSBLY**



**CP48HDBL**



**CPA48HDBL**

## GenSPEED® 10,000 Category 6A U/FTP (STP) Cable

### Features and Benefits

- Shielded design allowing for maximum pair separation, increasing key electrical performance parameters
- Individual pair shielding for EMI protection
- Typical positive PSACR beyond 500 MHz for increased available bandwidth
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

### Applications

- IEEE 802.3an: 10G BASE-T (10 Gigabit Ethernet)
- 1000 BASE-TX (Gigabit Ethernet)
- 2.4/1.2 Gb/s ATM
- IEEE 802.3af for PoE
- IEEE 802.3at for PoE Plus

### Standard Compliances

- ANSI/TIA 568-C.2
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



### CONSTRUCTION

#### Conductors

- 23 AWG solid bare annealed copper

#### Insulation

- Non-Plenum: Foamed HDPE
- Plenum: Foamed Fluoropolymer

#### Color Code

- Pair 1: Blue-White
- Pair 2: Orange-White
- Pair 3: Green-White
- Pair 4: Brown-White

#### Shield

- Each pair is individually shielded with an aluminum foil
- 24 AWG drain wire

#### Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

### PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.310	0.290
Nominal Cable Weight (lbs/1000 ft)	50	45
Minimum Bend Radius (in)	3.10	2.90
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

### PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	<b>7133786</b>	<b>7131786</b>
White	<b>7133787</b>	<b>7131787</b>
Yellow	<b>7133788</b>	<b>7131788</b>
Gray	<b>7133789</b>	<b>7131789</b>
Red	<b>7133790</b>	<b>7131790</b>
Orange	<b>7133791</b>	<b>7131791</b>
Green	<b>7133792</b>	<b>7131792</b>
Purple	<b>7133830</b>	<b>7131830</b>

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

Data subject to change without notice.

## PanGen® Category 6A Shielded System Solutions

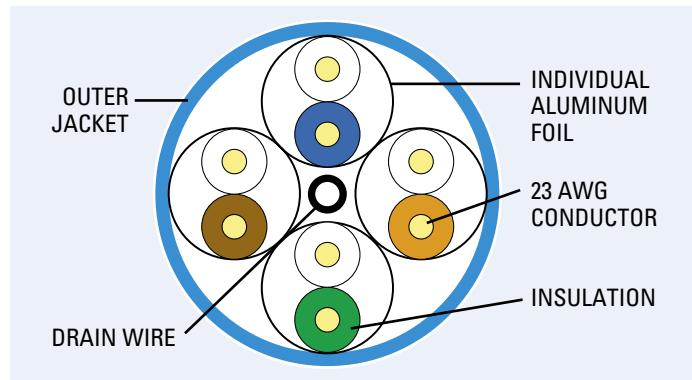
### GenSPEED® 10,000 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR*(min)	ACR*(min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	LCL/TCL (min)	PSANEXT (min)	PSAACRF (min)
1	70.2	72.2	2.1	72.3	74.3	70.8	73.8	20.0	50.0	77.0	77.0
4	68.5	70.5	3.8	72.3	74.3	58.8	61.8	23.0	44.0	77.0	76.2
10	66.3	68.3	5.9	72.3	74.3	50.8	53.8	25.0	40.0	77.0	68.2
16	63.6	66.6	7.5	71.2	74.2	46.7	49.7	25.0	38.0	77.0	64.1
20	61.3	64.3	8.4	69.8	72.8	44.8	47.8	25.0	37.0	77.0	62.2
31.25	56.1	59.1	10.5	66.9	69.9	40.9	43.9	23.6	35.1	77.0	58.3
62.5	46.9	49.9	15.0	62.4	65.4	34.9	37.9	21.5	32.0	75.6	52.3
100	39.4	42.4	19.1	59.3	62.3	30.8	33.8	20.1	30.0	72.5	48.2
200	25.6	28.6	27.6	54.8	57.8	24.8	27.8	18.0	27.0	68.0	42.2
250	20.3	23.3	31.1	53.3	56.3	22.8	25.8	17.3	26.0	66.5	40.2
300	15.5	18.5	34.3	52.1	55.1	21.3	24.3	16.8	25.2	65.3	38.7
350	11.2	14.2	37.2	51.1	54.1	19.9	22.9	16.3	24.6	64.3	37.3
400	7.1	10.1	40.1	50.3	53.3	18.8	21.8	15.9	24.0	63.5	36.2
500	—	2.7	45.3	48.8	51.8	16.8	19.8	15.2	23.0	62.0	34.2
600	—	—	50.1	47.6	50.6	15.2	18.2	14.7	22.2	60.8	32.6

Note: Values are expressed in dB per 100 m (328 ft) length @ 20°C

\*PSACR & ACR not specified in ANSI/TIA 568-C.2

### GenSPEED® 10,000 CATEGORY 6A U/FTP (STP) CROSS-SECTION



### ELECTRICAL CHARACTERISTICS

<b>DC Resistance (max)</b> Ohms/100 m (328 ft) @ 20°C	8.9
<b>DC Resistance Unbalance (max)</b> Individual Pair %	4.0
<b>Delay Skew (max)</b> ns/100 m	35
<b>Nom. Velocity of Propagation</b> % Speed of Light	CMP: 78 CMR: 75
<b>Characteristic Impedance</b> Frequency (f):	Ohms 1-600 MHz 100 ± 15

## GenSPEED® 10,000 Category 6A F/UTP (ScTP) Cable

### Features and Benefits

- A shielded or foiled-twisted pair (F/UTP) cable, requiring grounding and providing industry-leading protection from external cable noise sources, also known as alien crosstalk (PSANEXT and PSAACRF)
- The internal separator optimizes internal pair geometry to yield superior electrical performance and maintain flexibility. This unique cross-web stabilizes each pair to create a smaller, **round** cable profile
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

### Applications

- IEEE 802.3 10G BASE-T, 100 BASE-T
- 100 BASE-TX, 10 BASE-T, 1000 BASE-TX
- 155 Mb/s ATM
- IEEE 802.3af for PoE
- IEEE 802.3at for PoE Plus
- ANSI X3.263: 100Mb/s

### Standard Compliances

- ANSI/TIA 568-C.2
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



Data subject to change without notice.



### CONSTRUCTION

#### Conductors

- 23 AWG solid bare annealed copper

#### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

#### Color Code

- Pair 1: Blue-White
- Pair 2: Orange-White
- Pair 3: Green-White
- Pair 4: Brown-White

#### Separator

- Cross-Web

#### Core Tape

- CMR: Polypropylene
- CMP: Fluoropolymer

#### Shield

- Polyester-backed aluminum foil (aluminum side in)

#### Drain Wire

- 24 AWG stranded (7/32) solid tinned copper

#### Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

### PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.310	0.295
Nominal Cable Weight (lbs/1000 ft)	42	46
Minimum Bend Radius (in)	1.25	1.25
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

### PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	<b>7133586</b>	<b>7131586</b>
White	<b>7133587</b>	<b>7131587</b>
Yellow	<b>7133588</b>	<b>7131588</b>
Gray	<b>7133589</b>	<b>7131589</b>
Red	<b>7133590</b>	<b>7131590</b>
Orange	<b>7133591</b>	<b>7131591</b>
Green	<b>7133592</b>	<b>7131592</b>
Purple	<b>7133593</b>	<b>7131593</b>

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

## PanGen® Category 6A Shielded System Solutions

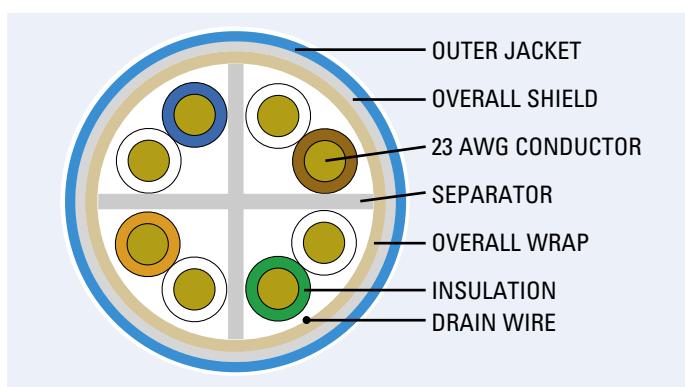
### GenSPEED® 10,000 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR*	ACR*	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)		PSAACRF (min)			
	General Cable Guaranteed	General Cable Guaranteed	TIA 568-C.2	TIA 568-C.2	TIA 568-C.2	TIA 568-C.2	TIA 568-C.2	TIA 568-C.2	TIA 568-C.2	General Cable Guaranteed	General Cable Typical	TIA 568-C.2	General Cable Guaranteed	General Cable Typical	
<b>1</b>	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	73.0	85.0	67.0	73.0	85.0
<b>4</b>	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	73.0	85.0	66.2	72.2	84.2
<b>10</b>	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	73.0	85.0	58.2	64.2	76.2
<b>16</b>	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	73.0	85.0	54.1	60.1	72.1
<b>20</b>	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	73.0	85.0	52.2	58.2	70.2
<b>31.25</b>	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	73.0	85.0	48.3	54.3	66.3
<b>62.5</b>	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	71.6	83.6	42.3	48.3	60.3
<b>100</b>	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	68.5	80.5	38.2	44.2	56.2
<b>150</b>	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	65.9	77.9	34.7	40.7	52.7
<b>200</b>	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	64.0	76.0	32.2	38.2	50.2
<b>250</b>	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	62.5	74.5	30.2	36.2	48.2
<b>300</b>	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	61.3	73.3	28.7	34.7	46.7
<b>400</b>	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	59.5	71.5	26.2	32.2	44.2
<b>500</b>	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	58.0	70.0	24.2	30.2	42.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.

\*PSACR & ACR not specified in ANSI/TIA 568-C.2

### TYPICAL GenSPEED® 10,000 CATEGORY 6A F/UTP (ScTP) CROSS-SECTION



### ELECTRICAL CHARACTERISTICS

<b>DC Resistance (max)</b> Ohms/100 m (328 ft) @ 20°C	8.9
<b>DC Resistance Unbalanced (max)</b> Individual Pair %	4
<b>Delay Skew (max)</b> ns/100 m	35
<b>Nom. Velocity of Propagation</b> % Speed of Light	70
<b>Characteristic Impedance</b> Frequency (f): 1-500 MHz	Ohms 100 ± 15

## PanGen® Category 6 System Solutions

### PanGen® 6 Premium

#### Key Features and Benefits of the PanGen 6 Premium Solution:

- Designed to exceed ANSI/TIA 568-C.2 channel requirements
- Installations covered by a 25-year comprehensive warranty program that provides performance to the latest industry standards
- A single point of contact for all PanGen inquiries
- All connectivity components are 100% performance-tested
- Quick Installation of PanGen systems is provided through an extensive network of specially trained and certified installers

#### PanGen 6 Premium Solution Delivers:

- Cable designed and engineered with precision balance to offer ultimate headroom
- TRU-Mark® footage marking system to help eliminate unused lengths of cable and save installation time
- Patent-pending Enhanced Giga-TX™ technology for jack module termination, which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Keyed connectivity available to mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed ports accommodating discrete networks
- Patch cords include slender strain-relief boots for easy access in high density applications and patented tangle-free latch which prevents snags and provides easy release for easy moves, adds and changes
- Modular and punchdown patch panels in flat, angled and high density versions (48 port, 1 RU)

For additional Panduit components, visit [www.panduit.com](http://www.panduit.com)

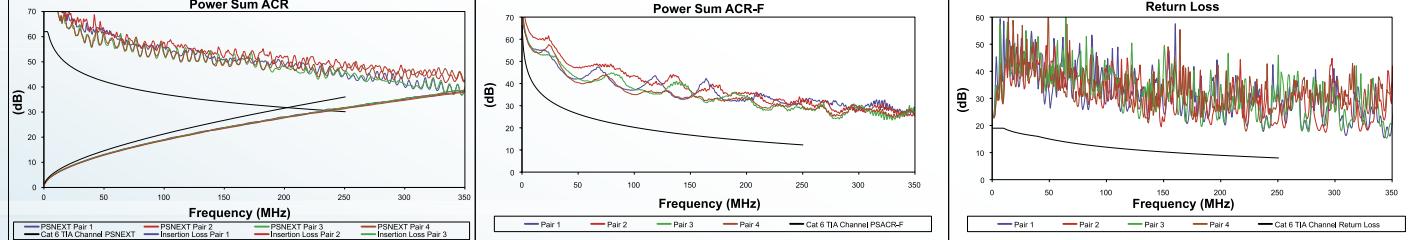
#### Category 6 Premium System

Guaranteed Channel Headroom over TIA/EIA Category 6 at 250 MHz	
Electrical Value	
Insertion Loss	8%
NEXT	4.5 dB
PSNEXT	6 dB
ACR	6 dB
PSACR	8 dB
ELFEXT	7 dB
PSELFEXT	9 dB
Return Loss	3 dB

\*Electrical values are above the specified standards and consist of worst pair margin per ANSI/TIA 568-C.2 Category 6.

#### Performance Charts

##### GenSPEED® 6500 Premium CMP



## PanGen® Category 6 System Solutions

### PanGen® 6 Enhanced

#### Key Features and Benefits of the PanGen 6 Enhanced Solution:

- Designed to exceed ANSI/TIA 568-C.2 channel requirements
- Installations covered by a 25-year comprehensive warranty program that provides performance to the latest industry standards
- A single point of contact for all PanGen inquiries
- All connectivity components are 100% performance-tested
- Quick installation of PanGen systems is provided through an extensive network of specially trained and certified installers

#### PanGen 6 Enhanced Solution Delivers:

- Optimal performance on all electrical parameters to provide a system that exceeds all applicable TIA standards. This performance is achieved through the robust cable design of GenSPEED paired with the Mini-Com Jack Module, TX6 PLUS Patch Cord, and DataPatch or Mini-Com Modular Patch Panels
- Category 6 channel designed to exceed the bandwidth requirements set by ANSI/TIA 568-C.2 Category 6 standards
- TRU-Mark® footage marking system to help eliminate unused lengths of cable and save installation time
- Jack modules feature the patented 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

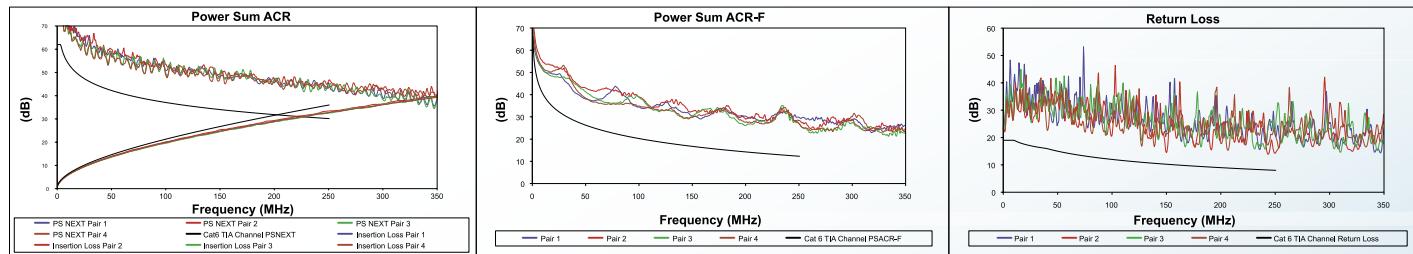
For additional Panduit components, visit [www.panduit.com](http://www.panduit.com)

#### Category 6 Enhanced System

Electrical Value	Guaranteed Channel Headroom over ANSI/TIA Category 6 at 250 MHz
Insertion Loss	5%
NEXT	4.5 dB
PSNEXT	5 dB
ACR	5.5 dB
PSACR	7.5 dB
ELFEXT	6 dB
PSELFEXT	8 dB
Return Loss	2 dB

\*Electrical values are above the specified standards and consist of worst pair margin per ANSI/TIA 568-C.2 Category 6.

#### Performance Charts GenSPEED® 6000 Enhanced CMP



## Panduit Connectivity for PanGen® Category 6 Systems

### Mini-Com® TX6™ PLUS UTP Jack Modules

- Exceed ANSI/TIA 568-C.2 Category 5e and ISO 11801 2nd Edition Class D standards
- All jack modules are 100% performance-tested and individually serialized for future traceability
- Compatible with all Mini-Com Modular Patch Panels, Faceplates, and Surface Mount Boxes
- Universal termination cap is color-coded for T568A and T568B wiring schemes

Part Number	Part Description
<b>CJ688TGIW*</b>	Category 6, RJ45, 8-position, 8-wire universal module
<b>CJ688TGIW-24</b>	24-pack Category 6, RJ45, 8-position, 8-wire universal module
<b>CJ688TGIW-C</b>	100-pack Category 6, RJ45, 8-position, 8-wire universal module
<b>CJK688TGBL†</b>	Keyed, Category 6, RJ45, 8-position, 8-wire universal module

\*For standard colors, replace color suffix with 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). To order bulk packs of 24 jack modules, add -24 to end of part number.

†For standard colors other than Black, replace suffix BL (Black) with BU (Blue), RD (Red), YL (Yellow), GR (Green), or (OR) Orange, each color representing a different keyed configuration.



**CJ688TGIW**



**CJ688TGIW-24**



**CJ688TGIW-C**



**CJK688TGBL**

## Panduit Connectivity for PanGen® Category 6 Systems

### TX6™ PLUS Copper UTP Patch Cords

- Exceed all industry performance standards for Category 6
- 100% performance-tested
- Available in a variety of colors and lengths for design flexibility

Part Number	Part Description
<b>UTPSP3Y*</b>	Category 6, UTP patch cord with TX6 PLUS Modular Plugs on each end
<b>UTP28SP3*</b>	Category 6 Performance Small Diameter UTP patch cord with TX6 PLUS Modular Plugs on each end
<b>UTPKSP3BL†</b>	Keyed, Category 6, UTP patch cord with TX6 PLUS Keyed Modular Plug on one end and TX6 PLUS Non-Keyed Modular Plug on the other end

\* Available in lengths 1 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet. For cable colors other than Off White, add suffix BL (Black), BU (Blue), GR (Green), GY (Gray), OR (Orange), RD (Red), YL (Yellow), or VL (Violet) before the Y at the end of the part number. For example, the part number for a blue 15-foot patch cord is UTPSP15BUY.

† Available in lengths 3, 5, 7, 10, and 14 feet. For cable colors other than Black, replace suffix BL (Black) with BU (Blue), RD (Red), YL (Yellow), GR (Green), or OR (Orange), each color representing a different keyed configuration.



**UTPSP3Y**



**UTP28SP3**



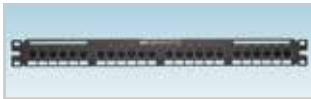
**UTPKSP3BL**

## Panduit Connectivity for PanGen® Category 6 Systems

### DP6™ PLUS UTP Patch Panels

- Mount to standard TIA/EIA 19" racks
- DP6 PLUS UTP Patch Panels exceed all industry performance standards for Category 6
- Angled versions are ideal for higher density applications; facilitate proper bend radius control and minimize the need for horizontal cable managers
- Each port is 100% tested to ensure NEXT and RL performance and is individually serialized to support traceability
- Utilize 110 punchdown termination on back of panel and includes retention cap for each port
- Optional label kits (DPLK24 and DPLK48) contain adhesive label holder and labels for easy port and panel identification
- Color-coded for T568A and T568B wiring schemes

Part Number	Part Description
<b>DP24688TGY</b>	24-port, 1 RU, Category 6 patch panel with 24 RJ45, 8-position, 8-wire ports
<b>DP48688TGY</b>	48-port, 2 RU, Category 6 patch panel with 24 RJ45, 8-position, 8-wire ports
<b>DPA24688TGY</b>	24-port angled, 1 RU, Category 6 patch panel with 24 RJ45, 8-position, 8-wire ports
<b>DPA48688TGY</b>	48-port angled, 2 RU, Category 6 patch panel with 24 RJ45, 8-position, 8-wire ports



DP24688TGY



DP48688TGY



DPA24688TGY



DPA48688TGY

## Patch Panels

## PanGen® Category 6 System Solutions

# Panduit Connectivity for PanGen® Category 6 Systems

### Modular Faceplate Patch Panels

- Release snap feature on faceplate allows front access to installed modules

Part Number	Part Description
<b>CPPL24WBLY</b>	24-port, 1 RU patch panel with labels, supplied with six factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPL48WBLY</b>	48-port, 2 RU patch panel with labels, supplied with twelve factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPLA24WBLY</b>	24-port angled, 1 RU patch panel with labels, supplied with six factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPLA48WBLY</b>	48-port angled, 2 RU patch panel with labels, supplied with twelve factory-installed CFFPL4-type front removable snap-in faceplates



CPPL24WBLY



CPPL48WBLY



CPPLA24WBLY



CPPLA48WBLY

### Modular Flush Mount Patch Panels

- Rear-mounted faceplates allow modules to be flush with front of patch panel
- Pre-printed numbers above each port for easy identification

Part Number	Part Description
<b>CPP24FMWBLY</b>	24-port, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPP48FMWBLY</b>	48-port, 2 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA24FMWBLY</b>	24-port angled, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA48FMWBLY</b>	48-port angled, 2 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPP48HDWBLY</b>	48-port high-density, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA48HDWBLY</b>	48-port angled, high-density, 1 RU, flush mount patch panel supplied with rear-mounted faceplates



CPP24FMWBLY



CPP48FMWBLY



CPPA24FMWBLY



CPPA48FMWBLY



CPP48HDWBLY



CPPA48HDWBLY

## GenSPEED® 6500 Premium Category 6 Cable

### Features and Benefits

- Designed and engineered with precision balance to offer ultimate headroom
- High-end optimized performance to support the most bandwidth-intense applications
- New and improved separator construction allowing for more pair separation
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance
- Made in U.S.A.

### Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- IEEE 802.3at for PoE Plus
- Digital Video
- Broadband and Baseband Analog Video

### Standard Compliances

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



Data subject to change without notice.



### CONSTRUCTION

#### Conductors

- 23 AWG solid bare annealed copper

#### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

#### Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

#### Separator

- Cross-web

#### Rip Cord

- Applied longitudinally under jacket

#### Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

### PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.260	0.255
Nominal Cable Weight (lbs/1000 ft)	32	31
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	50	50
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

### PART NUMBERS

Standard packaging: 1000' Spool-Pac®

Jacket Color	Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	<b>7133930</b>	<b>7131930</b>	<b>7133970</b>	<b>7131970</b>
White	<b>7133931</b>	<b>7131931</b>	<b>7133971</b>	<b>7131971</b>
Yellow	<b>7133932</b>	<b>7131932</b>	<b>7133972</b>	<b>7131972</b>
Gray	<b>7133933</b>	<b>7131933</b>	<b>7133973</b>	<b>7131973</b>
Red	<b>7133934</b>	<b>7131934</b>	<b>7133974</b>	<b>7131974</b>
Orange	<b>7133935</b>	<b>7131935</b>	<b>7133975</b>	<b>7131975</b>
Green	<b>7133936</b>	<b>7131936</b>	<b>7133976</b>	<b>7131976</b>
Black	<b>7133937</b>	<b>7131937</b>	<b>7133977</b>	<b>7131977</b>
Pink	<b>7133938</b>	<b>7131938</b>	<b>7133978</b>	<b>7131978</b>
Purple	<b>7133939</b>	<b>7131939</b>	<b>7133979</b>	<b>7131979</b>

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply.  
Non-stock items may be subject to minimum order quantities.

## Cabling

# PanGen® Category 6 System Solutions

### GenSPEED® 6500 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)		NEXT (min)		
	Guaranteed	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed
<b>1</b>	77.4	79.4	2.0	1.9	72.3	79.3	74.3	81.3
<b>4</b>	66.8	68.8	3.8	3.5	63.3	70.3	65.3	72.3
<b>10</b>	58.8	60.8	6.0	5.5	57.3	64.3	59.3	66.3
<b>16</b>	54.2	56.2	7.6	7.0	54.2	61.2	56.2	63.2
<b>20</b>	51.9	53.9	8.5	7.8	52.8	59.8	54.8	61.8
<b>31.25</b>	47.0	49.0	10.7	9.9	49.9	56.9	51.9	58.9
<b>62.5</b>	38.0	40.0	15.4	14.3	45.4	52.4	47.4	54.4
<b>100</b>	30.8	32.8	19.8	18.5	42.3	49.3	44.3	51.3
<b>200</b>	17.5	19.5	29.0	27.2	37.8	44.8	39.8	46.8
<b>250</b>	12.4	14.4	32.8	30.9	36.3	43.3	38.3	45.3
<b>350</b>	3.5	5.5	—	37.6	—	41.1	—	43.1
<b>500</b>	—	—	—	46.5	—	38.8	—	40.8

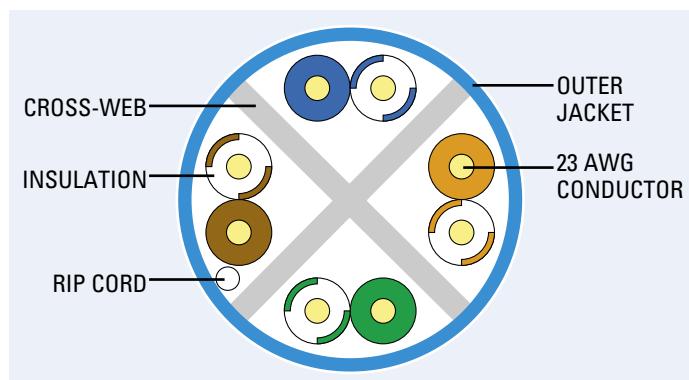
Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz for reference only.

\*PSACR & ACR not specified in ANSI/TIA 568-C.2

Frequency MHz	PSACRF (min)		ACRF (min)		Return Loss (min)		TCL (min)		ELTCTL (min)	
	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed
<b>1</b>	64.8	70.8	67.8	73.8	20.0	20.0	40.0	40.0	35.0	35.0
<b>4</b>	52.8	58.8	55.8	61.8	23.0	23.0	40.0	40.0	23.0	23.0
<b>10</b>	44.8	50.8	47.8	53.8	25.0	25.0	40.0	40.0	15.0	15.0
<b>16</b>	40.7	46.7	43.7	49.7	25.0	25.0	38.0	38.0	10.9	10.9
<b>20</b>	38.8	44.8	41.8	47.8	25.0	25.0	37.0	37.0	9.0	9.0
<b>31.25</b>	34.9	40.9	37.9	43.9	23.6	25.0	35.1	35.1	—	5.1
<b>62.5</b>	28.9	34.9	31.9	37.9	21.5	23.5	32.0	32.0	—	5.0
<b>100</b>	24.8	30.8	27.8	33.8	20.1	22.1	30.0	30.0	—	5.0
<b>200</b>	18.8	24.8	21.8	27.8	18.0	20.0	27.0	27.0	—	5.0
<b>250</b>	16.8	23.8	19.8	26.8	17.3	19.3	26.0	26.0	—	5.0
<b>350</b>	—	19.9	—	22.9	—	18.3	—	—	—	—
<b>500</b>	—	16.8	—	19.8	—	17.2	—	—	—	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz for reference only.

### GenSPEED® 6500 PREMIUM CATEGORY 6 CROSS-SECTION



### ELECTRICAL CHARACTERISTICS

<b>DC Resistance (max)</b> Ohms/100 m (328 ft.) @ 20°C	8.9
<b>DC Resistance Unbalance (max)</b> Individual Pair %	3.0
<b>Delay Skew (max)</b> ns/100 m	45
<b>Nom. Velocity of Propagation</b> % Speed of Light	CMP: 72 CMR: 70
<b>Characteristic Impedance</b> Frequency (f):	Ohms 100 ± 15

## GenSPEED® 6000 Enhanced Category 6 Cable

### Features and Benefits

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance
- Made in U.S.A.

### Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- IEEE 802.3at for PoE Plus
- Digital Video
- Broadband and Baseband Analog Video

### Standard Compliances

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



LISTED VERIFIED



### CONSTRUCTION

#### Conductors

- 23 AWG solid bare annealed copper

#### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

#### Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

#### Separator

- Cross-web

#### Rip Cord

- Applied longitudinally under jacket

#### Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

### PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.235	0.225
Nominal Cable Weight (lbs/1000 ft)	28	31
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

### PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II		Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133900	7131900	7133940	7131940	7133960	7131960
White	7133901	7131901	7133941	7131941	7133961	7131961
Yellow	7133902	7131902	7133942	7131942	7133962	7131962
Gray	7133903	7131903	7133943	7131943	7133963	7131963
Red	7133904	7131904	7133944	7131944	7133964	7131964
Orange	7133905	7131905	7133945	7131945	7133965	7131965
Green	7133906	7131906	7133946	7131946	7133966	7131966
Black	7133907	7131907	7133947	7131947	7133967	7131967
Pink	7133908	7131908	7133948	7131948	7133968	7131968
Purple	7133909	7131909	7133959	7131959	7133969	7131969

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply.

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

Data subject to change without notice.

## Cabling

# PanGen® Category 6 System Solutions

### GenSPEED® 6000 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR*	ACR*	Insertion Loss (max)		PSNEXT (min)		NEXT (min)	
	Guaranteed	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed
<b>1</b>	75.3	77.3	2.0	2.0	72.3	77.3	74.3	79.3
<b>4</b>	64.5	66.5	3.8	3.8	63.3	68.3	65.3	70.3
<b>10</b>	56.4	58.4	6.0	5.9	57.3	62.3	59.3	64.3
<b>16</b>	51.7	53.8	7.6	7.5	54.2	59.3	56.2	61.3
<b>20</b>	49.4	51.4	8.5	8.4	52.8	57.8	54.8	59.8
<b>31.25</b>	44.3	46.3	10.7	10.6	49.9	54.9	51.9	56.9
<b>62.5</b>	35.1	37.1	15.4	15.3	45.4	50.4	47.4	52.4
<b>100</b>	27.6	29.6	19.8	19.7	42.3	47.3	44.3	49.3
<b>150</b>	20.0	22.0	24.7	24.7	39.7	44.7	41.7	46.7
<b>200</b>	13.8	15.8	29.0	29.0	37.8	42.8	39.8	44.8
<b>250</b>	8.7	10.7	32.8	32.6	36.3	41.3	38.3	43.3
<b>350</b>	—	1.7	—	39.5	—	39.2	—	41.2
<b>500</b>	—	—	—	48.6	—	36.8	—	38.8

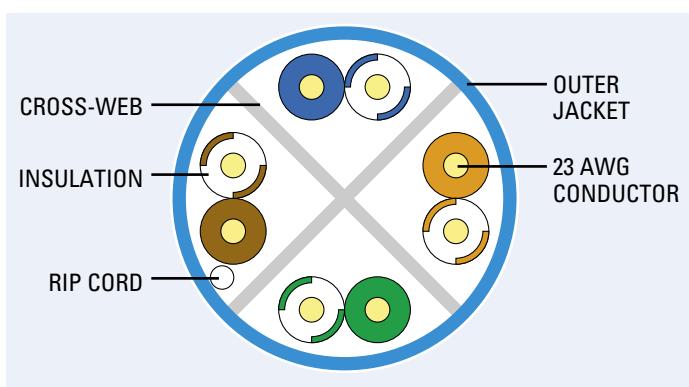
Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz for reference only.

\*PSACR & ACR not specified in ANSI/TIA 568-C.2

Frequency MHz	PSACRF (min)		ACRF (min)		Return Loss (min)		TCL (min)		ELTCTL (min)	
	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed
<b>1</b>	64.8	69.8	67.8	72.8	20.0	20.0	40.0	40.0	35.0	35.0
<b>4</b>	52.8	57.7	55.7	60.7	23.0	23.6	40.0	40.0	23.0	23.0
<b>10</b>	44.8	49.8	47.8	52.8	25.0	26.0	40.0	40.0	15.0	15.0
<b>16</b>	40.7	45.7	43.7	48.7	25.0	26.0	38.0	38.0	10.9	10.9
<b>20</b>	38.8	43.7	41.7	46.7	25.0	26.0	37.0	37.0	9.0	9.0
<b>31.25</b>	34.9	39.9	37.9	42.9	23.6	25.0	35.1	35.1	—	5.1
<b>62.5</b>	28.9	33.8	31.8	36.8	21.5	23.5	32.0	32.0	—	5.0
<b>100</b>	24.8	29.8	27.8	32.8	20.1	22.5	30.0	30.0	—	5.0
<b>150</b>	21.3	26.3	24.3	29.3	18.9	21.6	28.2	28.2	—	5.0
<b>200</b>	18.8	23.8	21.8	26.8	18.0	21.0	27.0	27.0	—	5.0
<b>250</b>	16.8	21.8	19.8	24.8	17.3	20.5	26.0	26.0	—	5.0
<b>350</b>	—	18.9	—	21.9	—	19.8	—	—	—	—
<b>500</b>	—	15.8	—	18.8	—	19.0	—	—	—	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz for reference only.

### GenSPEED® 6000 ENHANCED CATEGORY 6 CROSS-SECTION



### ELECTRICAL CHARACTERISTICS

<b>DC Resistance (max)</b> Ohms/100 m (328 ft) @ 20°C	8.9
<b>DC Resistance Unbalance (max)</b> Individual Pair %	3.0
<b>Delay Skew (max)</b> ns/100 m	CMP: 35 CMR: 40
<b>Nom. Velocity of Propagation</b> % Speed of Light	CMP: 70 CMR: 68
<b>Characteristic Impedance</b> Frequency (f):	Ohms 100 ± 15

## PanGen® Category 5e System Solutions

### PanGen® 5e Premium

#### Key Features and Benefits of the PanGen 5e Premium Solution:

- Designed to exceed ANSI/TIA 568-C.2 channel requirements
- Installations covered by a 25-year comprehensive warranty program that provides performance to the latest industry standards
- A single point of contact for all PanGen inquiries
- All connectivity components are 100% performance-tested
- Quick installation of PanGen systems is provided through an extensive network of specially trained and certified installers

#### PanGen 5e Premium Solution Delivers:

- Compliant performance on all electrical parameters to provide a system that exceeds all applicable TIA standards. This performance is guaranteed by pairing GenSPEED 5500 with Mini-Com Jack Modules, TX5E Patch Cords, and DataPatch or Mini-Com Modular Patch Panels
- Category 5e channel designed to exceed bandwidth requirements set by ANSI/TIA 568-C.2 Category 5e standards
- TRU-Mark® footage marking system to help eliminate unused lengths of cable and save installation time
- Jack modules feature the patented 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

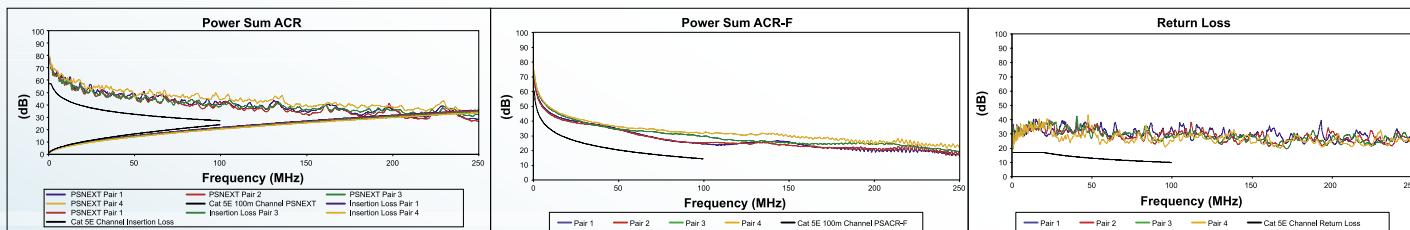
For additional Panduit components, visit [www.panduit.com](http://www.panduit.com)

#### Category 5e Premium System

Guaranteed Channel Headroom over ANSI/TIA Category 5e at 100 MHz	
Electrical Value	
Insertion Loss	10%
PSNEXT	6 dB
PSACR	9 dB
PSELFEXT	6 dB

\*Electrical values are above the specified standards and consist of worst pair margin per ANSI/TIA 568-C.2 Category 5e.

#### Performance Charts GenSPEED® 5500 CMP



## Panduit Connectivity for PanGen® Category 5e Systems

### Mini-Com® TX5e™ UTP Jack Modules

- Exceed ANSI/TIA 568-C.2 Category 5e and ISO 11801 2nd Edition Class D standards
- All jack modules are 100% performance-tested and individually serialized for future traceability
- Compatible with all Mini-Com Modular Patch Panels, Faceplates, and Surface Mount Boxes
- Universal termination cap is color-coded for T568A and T568B wiring schemes

Part Number	Part Description
<b>CJ5E88TGIW*</b>	Category 5e, RJ45, 8-position, 8-wire universal module
<b>CJ5E88TGIW-24</b>	24-pack Category 5e, RJ45, 8-position, 8-wire universal module
<b>CJK5E88TGBL*</b>	Keyed, Category 5e, RJ45, 8-position, 8-wire universal module

\*For standard colors, replace color suffix with 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). To order bulk packs of 24 jack modules, add -24 to end of part number.

\*For standard colors other than Black, replace suffix BL (Black) with BU (Blue), RD (Red), YL (Yellow), GR (Green), or (OR) Orange, each color representing a different keyed configuration.



**CJ5E88TGIW**



**CJ5E88TGIW-24**



**CJK5E88TGBL**

### TX5e™ Copper UTP Patch Cords

- Exceed all industry performance standards for Category 5e
- 100% performance-tested
- Available in a variety of colors and lengths for design flexibility

Part Number	Part Description
<b>UTPCCH3Y*</b>	Category 5e UTP patch cord with Pan-Plug Modular Plugs on each end
<b>UTP28CH3*</b>	Category 5e Performance Small Diameter UTP patch cord with Pan-Plug Modular Plugs on each end
<b>UTPKCH3BL*</b>	Keyed, Category 5e UTP patch cord with TX5e PLUS Keyed Modular Plug on one end and TX5e PLUS Non-Keyed Modular Plug on the other end

\* Available in lengths 1 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet. For cable colors other than Off White, add suffix BL (Black), BU (Blue), GR (Green), GY (Gray), OR (Orange), RD (Red), YL (Yellow), or VL (Violet) before the Y at the end of the part number. For example, the part number for a blue 15-foot patch cord is UTPCH15BY.

\*Available in lengths 3, 5, 7, 10, and 14feet. For cable colors other than Black, replace suffix BL (Black) with BU (Blue), RD (Red), YL (Yellow), GR (Green), or OR (Orange), each color representing a different keyed configuration.



**UTPCCH3Y**



**UTP28CH3**



**UTPKCH3BL**

## Panduit Connectivity for PanGen® Category 5e Systems

### DP5e™ UTP Patch Panels

- Mount to standard TIA/EIA 19" racks
- DP5e UTP Patch Panels exceed all industry performance standards for Category 5e
- Angled versions are ideal for higher density applications; facilitate proper bend radius control and minimize the need for horizontal cable managers
- Each port is 100% tested to ensure NEXT and RL performance and is individually serialized to support traceability
- Utilize 110 punchdown termination on back of 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
- Color-coded for T568A and T568B wiring schemes

Part Number	Part Description
<b>DP245E88TGY</b>	24-port, 1 RU, Category 5e patch panel with 24 RJ45, 8-position, 8-wire ports
<b>DP485E88TGY</b>	48-port, 2 RU, Category 5e patch panel with 24 RJ45, 8-position, 8-wire ports
<b>DPA245E88TGY</b>	24-port angled, 1 RU, Category 5e patch panel with 24 RJ45, 8-position, 8-wire ports
<b>DPA485E88TGY</b>	48-port angled, 2 RU, Category 5e patch panel with 24 RJ45, 8-position, 8-wire ports



DP245E88TGY



DP485E88TGY



DPA245E88TGY



DPA485E88TGY

## Patch Panels

# PanGen® Category 5e System Solutions

## Panduit Connectivity for PanGen® Category 5e Systems

### Modular Faceplate Patch Panels

- Release snap feature on faceplate allows front access to installed modules

Part Number	Part Description
<b>CPPL24WBLY</b>	24-port, 1 RU patch panel with labels, supplied with six factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPL48WBLY</b>	48-port, 2 RU patch panel with labels, supplied with twelve factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPLA24WBLY</b>	24-port angled, 1 RU patch panel with labels, supplied with six factory-installed CFFPL4-type front removable snap-in faceplates
<b>CPPLA48WBLY</b>	48-port angled, 2 RU patch panel with labels, supplied with twelve factory-installed CFFPL4-type front removable snap-in faceplates



**CPPL24WBLY**



**CPPL48WBLY**



**CPPLA24WBLY**



**CPPLA48WBLY**

### Modular Flush Mount Patch Panels

- Rear-mounted faceplates allow modules to be flush with front of patch panel
- Pre-printed numbers above each port for easy identification

Part Number	Part Description
<b>CPP24FMWBLY</b>	24-port, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPP48FMWBLY</b>	48-port, 2 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA24FMWBLY</b>	24-port angled, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA48FMWBLY</b>	48-port angled, 2 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPP48HDWBLY</b>	48-port high-density, 1 RU, flush mount patch panel supplied with rear-mounted faceplates
<b>CPPA48HDWBLY</b>	48-port angled, high-density, 1 RU, flush mount patch panel supplied with rear-mounted faceplates



**CPP24FMWBLY**



**CPP48FMWBLY**



**CPPA24FMWBLY**



**CPPA48FMWBLY**



**CPP48HDWBLY**



**CPPA48HDWBLY**

## GenSPEED® 5500 Premium Category 5e Cable

### Features and Benefits

- Ensures increased headroom for future applications, lower bit-error rates, and higher signal transmission quality
- Enhanced signal-to-noise ratio, improving bit-error rate
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance
- Made in U.S.A.

### Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- IEEE 802.3at DTE for PoE Plus
- Broadband and Baseband Analog Video

### Standard Compliances

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- IECA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



Data subject to change without notice.



### CONSTRUCTION

#### Conductors

- 23 AWG CMR solid bare annealed copper
- 24 AWG CMP solid bare annealed copper

#### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

#### Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

#### Rip Cord

- Applied longitudinally under jacket

#### Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

### PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.220	0.190
Nominal Cable Weight (lbs/1000 ft)	24	21
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

### PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II		Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	<b>6133299</b>	<b>6131278</b>	<b>6133403</b>	<b>6131433</b>	<b>6133282</b>	<b>6131282</b>
White	<b>6133255</b>	<b>6131361</b>	<b>6133339</b>	<b>6131449</b>	<b>6133492</b>	<b>6131618</b>
Yellow	<b>6133289</b>	<b>6131546</b>	<b>6133369</b>	<b>6131379</b>	<b>6133348</b>	<b>6131382</b>
Gray	<b>6133200</b>	<b>6131418</b>	<b>6133331</b>	<b>6131619</b>	<b>6133334</b>	
Red	<b>6133274</b>	<b>6131477</b>		<b>6131635</b>		
Orange	<b>6133746</b>	<b>6131422</b>	<b>6133383</b>	<b>6131576</b>		
Green	<b>6133512</b>	<b>6131547</b>	<b>6133615</b>	<b>6131575</b>	<b>6133616</b>	<b>6131757</b>
Black	<b>6133696</b>	<b>6131683</b>		<b>6131829</b>		
Pink	<b>6133290</b>	<b>6131709</b>	<b>6133447</b>	<b>6131478</b>	<b>6133341</b>	
Purple	<b>6133445</b>	<b>6131710</b>	<b>6133446</b>			

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply.  
Non-stock items may be subject to minimum order quantities.

## PanGen® Category 5e System Solutions

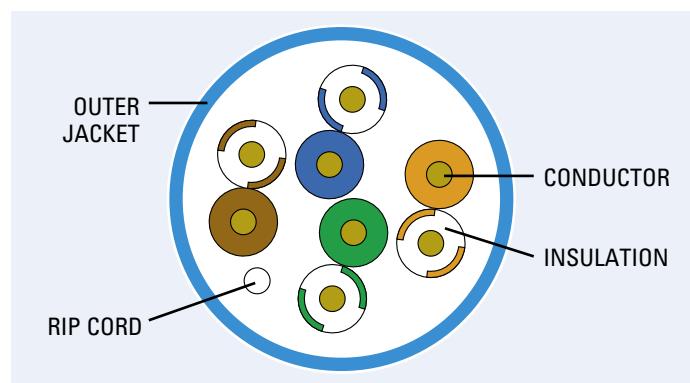
### GenSPEED® 5500 PREMIUM ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)
<b>1</b>	66.3	68.3	2.0	68.3	70.3	62.0	65.0	20.0
<b>4</b>	55.4	57.4	3.9	59.3	61.3	50.0	53.0	23.0
<b>10</b>	47.1	49.1	6.2	53.3	55.3	42.0	45.0	25.0
<b>16</b>	42.3	44.3	7.9	50.2	52.2	37.9	40.9	25.0
<b>20</b>	39.9	41.9	8.9	48.8	50.8	36.0	39.0	25.0
<b>25</b>	37.4	39.4	10.0	47.3	49.3	34.0	37.0	24.3
<b>31.25</b>	34.7	36.7	11.2	45.9	47.9	32.1	35.1	23.6
<b>62.5</b>	25.1	27.1	16.3	41.4	43.4	26.1	29.1	21.5
<b>100</b>	17.3	19.3	21.0	38.3	40.3	22.0	25.0	20.1
<b>155</b>	8.6	10.6	26.9	35.4	37.4	18.2	21.2	18.8
<b>200</b>	2.8	4.8	31.0	33.8	35.8	16.0	19.0	18.0
<b>250</b>	—	—	35.3	32.3	34.3	14.0	17.0	17.3
<b>300</b>	—	—	39.2	31.1	33.1	12.5	15.5	16.8
<b>350</b>	—	—	42.9	30.1	32.1	11.1	14.1	16.3

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.

\*PSACR & ACR not specified in ANSI/TIA 568-C.2

### GenSPEED® 5500 PREMIUM CATEGORY 5e CROSS-SECTION



### ELECTRICAL CHARACTERISTICS

<b>DC Resistance (max)</b> Ohms/100 m (328 ft) @ 20°C	8.9
<b>DC Resistance Unbalance (max)</b> Individual Pair %	3.0
<b>Delay Skew (max)</b> ns/100 m	45
<b>Nom. Velocity of Propagation</b> % Speed of Light	CMP: 72 CMR: 70
<b>Characteristic Impedance</b> Frequency (f):	Ohms 100 ± 15

## PanGen® Fiber System Solutions

### Key Features and Benefits of the PanGen Plus Fiber Solution:

- High-performance system engineered to meet network requirements for 10 Gb applications
- Multimode fiber differential mode delay (DMD) and attenuation performance characteristics designed to meet the laser-based protocols of IEEE 802.3ae
- Compatible with Ethernet, Fast Ethernet and ATM protocols
- Tested at link length of 300 m with two mated pair connectors; PanGen Plus 10GBE system performed with a packet bit error rate (BER) of 10-12, exceeding the IEEE specification requirements
- Installations covered by a 25-year comprehensive warranty program that provides performance to the latest industry standards
- A single point of contact for all PanGen inquiries
- All connectivity components are 100% performance-tested
- Quick installation of PanGen systems is provided through an extensive network of specially trained and certified installers

#### System Performance

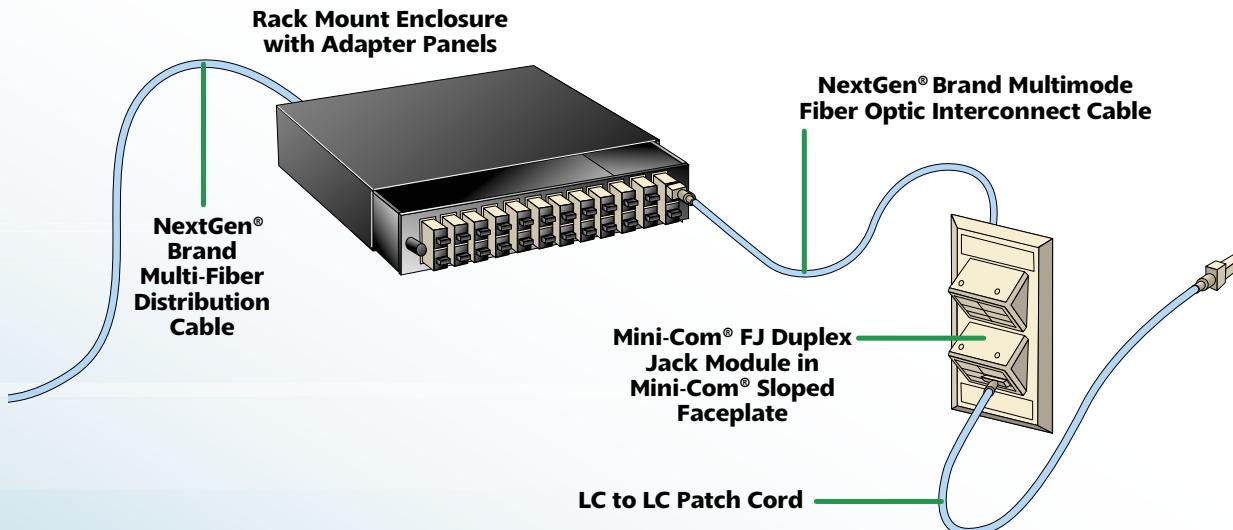
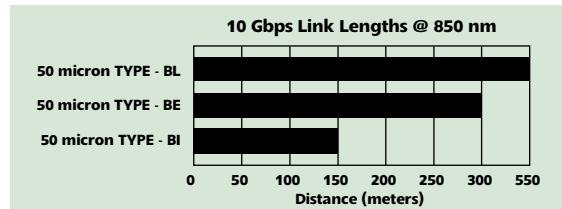
	Fiber Type	Description	10 Gbit Distance (meters)	
			850 nm	1310 nm
PanGen Plus 10GAE	AE	Low Water Peak SM Fiber	—	10,000
PanGen Plus 10GBI	BI	50/125 G10X 150	150	300
PanGen Plus 10GBE	BE	50/125 G10X 300	300	300
PanGen Plus 10GBL	BL	50/125 G10X 500	550	300

### PanGen Plus Fiber Solution Delivers:

- 10 GB optical performance that exceeds IEEE 802.3 specifications
- Fully compatible suite of NextGen® cable, and Panduit connectors and patch cords
- 50/125 multimode or singlemode fiber options
- Cable designs for premise, outside plant and indoor/outdoor applications

For additional Panduit components, visit [www.panduit.com](http://www.panduit.com)

#### Performance Chart



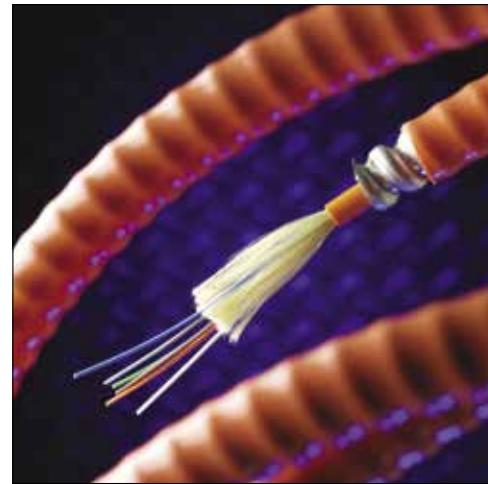
## PanGen® Fiber System Solutions

# PanGen® Fiber System Solutions

### PANDUIT OPTICOM® Fiber Optic Components

Connector Part Number*	Description
FLCDSBUY	LC SM duplex connector
FSCSBU	SC SM simplex connector
Patch Cord Part Number*	Description
FXE10-10M1	LC to LC MM 10 Gig 50/125 µm (OM3) duplex patch cord
F9E10-10M1	LC to LC SM 9/125 µm (OS1) duplex patch cord
FXD3-3M1	SC to SC MM 10 Gig 50/125 µm (OM3) duplex patch cord
F9D3-3M1	SC to SC SM 9/125 µm (OS1) duplex patch cord
Adapter Module Part Number*	Description
CMDJAJQLCBL	LC Sr./Jr. SFF duplex 10 Gig MM, phos. bronze split sleeves
CMDJLZBZU	LC Sr./Jr. SFF duplex SM, zirc. ceramic split sleeves
CMDAQCSCBL	SC duplex 10 Gig MM, phos. bronze split sleeves
CMDBUSCZBU	SC duplex SM, ceramic split sleeves
Other styles are available	
Fiber Adapter Panel Part Number*	Description
FAP6WAQDLC	6 LC duplex 10 Gig MM adapters, phos. bronze split sleeves
FAP6WBUDLCZ	6 LC duplex SM adapters, zirc. ceramic split sleeves
FAP6WAQDSC	6 SC duplex 10 Gig MM adapters, phos. bronze split sleeves
FAP6WBUDSCZ	6 SC duplex SM adapters, zirc. ceramic split sleeves
Rack Mount Enclosure Part Number*	Description
FRME1	1 RU enclosure, slide out/tilt down drawer
FRME2	2 RU enclosure, slide out/tilt down drawer
FRME3	3 RU enclosure
FRME4	4 RU enclosure

\*For complete product listing and product specifications, contact Panduit Customer Service



### NEXTGEN® BRAND Fiber Optic Product Type

	Construction Options	Fiber Count	Part Number*
<b>Premise Cable</b>			
Interconnect Cables	Plenum	1 & 2 fibers	xxxxySNU1.6
	Riser	1 & 2 fibers	xxxxySNR1.6
Tight Buffer Distribution Cables			
	Riser	2-24 fibers 18-144 fibers	xxxxy1PNR xxxxy1P1R
	Plenum	2-24 fibers 36-144 fibers	xxxxy1PNU xxxxy1P1D
Tight Buffer Distribution Interlock Armor Cables			
	Interlock Armor Riser	2-24 fibers 24-144 fibers	xxxxy1PNR-ILRA xxxxy1P1R-ILRA
	Interlock Armor Plenum	2-24 fibers 36-144 fibers	xxxxy1PNU-ILPA xxxxy1PNU-ILPAS
<b>Indoor/Outdoor Cable</b>			
Loose Tube	Riser	2-144 fibers	xxxxy4M1M-DT
	Plenum	2-144 fibers	xxxxy4M1D-DT
Tight Buffer Distribution Style			
	Riser	2-24 fibers 18-144 fibers	xxxxy1ANR xxxxy1A1R
	Plenum	2-24 fibers 36-144 fibers	xxxxyANU xxxxyA1D
<b>Outside Plant Cable</b>			
Loose Tube Cable	Single Jacket - Dielectric	2-288 fibers	xxxxy4M1A-DWB
	Armored	2-288 fibers	xxxxy4M1F-DWB

\*xx denotes fiber type and yyy denotes number of fibers  
For additional NextGen® Brand fiber optic cable information, visit [www.generalcable.com](http://www.generalcable.com).

## Mini-Com® Faceplates

### Classic Series Faceplates

- Accept all Mini-Com Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Optional labeling for easy port identification
- Available with or without labeling features and in flush mount or sloped configurations
- Available in a variety of port densities and colors

Part Number	Part Description
<b>CFP1IW*</b>	Single gang, vertical faceplate. Accepts one Mini-Com Module
<b>CFP2IW</b>	Single gang, vertical faceplate. Accepts two Mini-Com Modules
<b>CFP4IW</b>	Single gang, vertical faceplate. Accepts four Mini-Com Modules
<b>CFPH2IW</b>	Single gang, horizontal faceplate. Accepts two Mini-Com Modules
<b>CFPH4IW</b>	Single gang, horizontal faceplate. Accepts four Mini-Com Modules
<b>CFPL2IWY</b>	Single gang, vertical faceplate with two labels and label covers. Accepts two Mini-Com Modules
<b>CFPL3IWY</b>	Single gang, vertical faceplate with two labels and label covers. Accepts three Mini-Com Modules
<b>CFPL4IWY</b>	Single gang, vertical faceplate with two labels and label covers. Accepts four Mini-Com Modules
<b>CFPL6IWY</b>	Single gang, vertical faceplate with two labels and label covers. Accepts six Mini-Com Modules
<b>CFPSL2IWY</b>	Single gang, sloped, vertical faceplate with two labels and label covers. Accepts two Mini-Com Modules
<b>CFPSL4IWY</b>	Single gang, sloped, vertical faceplate with two labels and label covers. Accepts four Mini-Com Modules
<b>CFPSL6IWY</b>	Single gang, sloped, vertical faceplate with two labels and label covers. Accepts six Mini-Com Modules
<b>CFPHSL4IW</b>	Single gang, sloped, horizontal faceplate with one label and one label cover. Accepts four Mini-Com Modules

\*For other colors, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Grey). All faceplates supplied with mounting screws.



**CFP1IW**



**CFP2IW**



**CFP4IW**



**CFPH2IW**



**CFPH4IW**



**CFPL2IWY**



**CFPL3IWY**



**CFPL4IWY**



**CFPL6IWY**



**CFPSL2IWY**



**CFPSL4IWY**



**CFPSL6IWY**



**CFPHSL4IW**

## Accessories

# Panduit® Accessories for PanGen® Systems

## Mini-Com® Faceplates

### Executive Series Faceplates

- Accept Mini-Com Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Available with labeling features
- Raised rail design for aesthetic appeal

Part Number	Part Description
<b>CFPE1IWY*</b>	Single gang, vertical faceplate. Accepts one Mini-Com Module
<b>CFPE2IWY</b>	Single gang, vertical faceplate. Accepts two Mini-Com Modules
<b>CFPE4IWY</b>	Single gang, vertical faceplate. Accepts four Mini-Com Modules
<b>CFPE6IWY</b>	Single gang, vertical faceplate. Accepts six Mini-Com Modules
<b>CFPE10IW-2GY</b>	Double gang, vertical faceplate. Accepts ten Mini-Com Modules

\*For other colors, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Grey). All faceplates supplied with mounting screws.



**CFPE1IWY**



**CFPE2IWY**



**CFPE4IWY**



**CFPE6IWY**



**CFPE10IW-2GY**

## Mini-Com® Faceplate Frames and Module Inserts

### Classic and Executive Faceplate Frames

- Inserts and faceplate frames enable design flexibility
- Accept all Mini-Com Modules
- Allow custom installation
- Optional label for easy port identification

Part Number	Part Description
<b>Classic Series Faceplate Frames</b>	
<b>CBIW</b>	Single gang faceplate frame accepts two ½ size modular inserts or three 1/3 size modular inserts
<b>CBIW-2G</b>	Double gang faceplate frame accepts four ½ size modular inserts or six 1/3 size modular inserts
<b>Executive Series Faceplate Frames</b>	
<b>CBEIWY*</b>	Single gang faceplate frame accepts two ½ size modular inserts or three 1/3 size modular inserts Supplied with labels and label cover/screw covers
<b>CBEIW-2GY</b>	Double gang faceplate frame accepts four ½ size modular inserts or six 1/3 size modular inserts Supplied with labels and label cover/screw covers
<b>Modular Inserts</b>	
<b>CHS2IW-X</b>	Two module, ½ size, sloped insert accepts two Mini-Com Modules
<b>CHS2SIW-X</b>	Two module, ½ size, sloped shuttered insert accepts two Mini-Com Modules. Shutters are spring-loaded and rotate out of the way for cable connections. Not suitable for use with any audio/video or fiber connector module that protrudes beyond the face of the insert
<b>CHF2IW-X</b>	Two module, ½ size, flat insert accepts two Mini-Com Modules
<b>CHSRE2IW-X</b>	Two module, ½ size, 30° sloped recessed insert accepts two Mini-Com Modules
<b>CHS1SIW-X</b>	One module, ½ size, sloped shuttered insert accepts one Mini-Com Module. Not suitable for use with any audio/video or fiber connector that protrudes beyond the face of the insert
<b>CHB2IW-X</b>	½ blank insert. Reserves space for future upgrades.
<b>CHF2MIW-X</b>	Two module, 1/3 size, flat insert accepts two Mini-Com Modules
<b>CHB2MIW-X</b>	1/3 blank insert. Reserves space for future upgrades
<b>CHLS2SIW-X</b>	Sloped module insert with protective shutters and label/label cover; accepts up to two Mini-Com Modules and accommodates up to ½ of a single gang bezel. Shutters are spring-loaded and rotate out of the way for cable connections. Depth to rear modules: 16.5mm. Not suitable for use with any audio/video or fiber connector module that protrudes beyond the face of the insert

\*For other colors, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), BL (Black), or IG (International Grey).



## Accessories

# Panduit® Accessories for PanGen® Systems

## Mini-Com® Module Frames

### GFCI Decora Module Frames

- Mount behind any standard GFCI electrical faceplate
- Optional adhesive labels

Part Number	Part Description
<b>CFG1IW*</b>	Module frame accepts one Mini-Com Module
<b>CFG2IW</b>	Module frame accepts two Mini-Com Modules
<b>CFG4IW</b>	Module frame accepts four Mini-Com Modules
<b>CFG6IW</b>	Module frame accepts six Mini-Com Modules

\*For other colors, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), BL (Black), or IG (International Grey). All frames supplied with mounting screws.



**CFG1IW**



**CFG2IW**



**CFG4IW**



**CFG6IW**

### 106 Duplex Module Frames

- Mount behind standard 106 NEMA faceplates

Part Number	Part Description
<b>CF1062IWY</b>	Module frame accepts two Mini-Com Modules
<b>CF1064IWY</b>	Module frame accepts four Mini-Com Modules

\*For other colors, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), BL (Black), or IG (International Grey). All frames supplied with mounting screws.



**CF1062IWY**



**CF1064IWY**

## Mini-Com® Furniture Faceplates

### Snap-On Modular Furniture Faceplates

Part Number	Part Description
<b>CFFPL4BL</b>	Four module space modular furniture snap-on faceplate with labels
<b>CFFP4BL</b>	Four module space modular furniture snap-on faceplate
<b>MFFPEBL</b>	Snap-on modular furniture faceplate extender for use when depth inside modular furniture base is limited. Extends plate approximately $\frac{1}{2}$ ". Accepts CFFPL4 and CFFP4 faceplates
<b>CFFPA2BL</b>	Two module space angled, modular furniture snap-on faceplate
<b>CFFPE3BL</b>	Three module space extended furniture snap-on faceplate. Compatible with Knoll Morrison furniture, as well as industry standard knockouts
<b>CFFPLA4BL</b>	Four module space angled, modular furniture snap-on faceplate with labels
<b>CFFPHM4BL</b>	Four module space Herman Miller Furniture snap-on faceplate. Compatible with Herman Miller lines such as Action Office Series 2 and 3 and Ethespace Baseline
<b>CFFPEBSL4BL</b>	Four module space angled Herman Miller Ethespace Beltline Furniture snap-on faceplate with labels
<b>CFFPK3BL</b>	Three module space Knoll Equity Furniture snap-on faceplate
<b>C4PPLK</b>	Replacement label/label cover kit for Mini-Com Modular furniture Faceplates with Labels. Each kit contains six labels and six clear label covers per bag.



**CFFPL4BL**



**CFFP4BL**



**MFFPEBL**



**CFFPA2BL**



**CFFPE3BL**



**CFFPLA4BL**



**CFFPHM4BL**



**CFFPEBSL4BL**



**CFFPK3BL**



**C4PPLK**

## Accessories

## Panduit® Accessories for PanGen® Systems

# Mini-Com® Phone Plate with Module and Surface Mount Boxes

### Phone Plate with Module

- Stainless steel construction
- Includes mounting studs which are positioned to mount standard wall mount telephones with keystone adaptation flush to wall surface

Part Number	Part Description
<b>KWP5EY</b>	Stainless steel phone plate with Giga-TX style Category 5e Keystone jack module
<b>KWP6PY</b>	Stainless steel phone plate with Giga-TX style Category 6 Keystone jack module



**KWP5EY**



**KWP6PY**

### Surface Mount Boxes

- Accept Mini-Com Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Mount easily with supplied mounting screws, adhesive tape, or optional magnet (CBM-X)
- Cable entry from side and rear knockouts and from opening in center of base
- Optional adhesive labels available

Part Number	Part Description
<b>CBX1IW-A*</b>	Surface mount box accepts one Mini-Com Module
<b>CBX2IW-AY</b>	Surface mount box accepts one or two Mini-Com Modules; includes built-in removable blank to add second module
<b>CBX4IW-AY</b>	Surface mount box accepts four Mini-Com Modules. Provides slots for cable ties for strain relief. Supplied with label holder/screw cover
<b>CBXD6IW-AY</b>	Surface mount box accepts six Mini-Com Modules. Provides slots that accept cable ties for strain relief. Provides bend radius control. Supplied with label holder/screw cover
<b>CBX12IW-AY</b>	Surface mount box holds up to twelve Mini-Com Modules, six on each side. Supplied with mounting screws, adhesive backing, and label holder/screw cover
<b>CBM-X</b>	Optional magnet for mounting on metal surfaces

\*For surface mount box standard colors other than IW (Off White), replace suffix with EI (Electric Ivory), IG (International Grey), or WH (White).

\* CBX1\*\* -A does not include magnet pocket.



**CBX1IW-A**



**CBX2IW-AY**



**CBX4IW-AY**



**CBXD6IW-AY**



**CBX12IW-AY**



**CBM-X**

## Mini-Com® Audio/Video Modules

Part Number	Part Description
<b>F-Type Modules</b>	
<b>CMFIW</b>	Module supplied with 75 ohm industry standard F-type coupler; accepts RG-6 and RG-59 coaxial cable
<b>CMFSRIWY</b>	Module supplied with 75 ohm self-terminating F-type coupler; accepts RG-6 and RG-59 coaxial cable
<b>BNC Coax Coupler Modules</b>	
<b>CMBA75IWY</b>	Module supplied with 75 ohm industry standard BNC coupler
<b>CMBAIWY</b>	Module supplied with 50 ohm industry standard BNC coupler
<b>RCA 110 Punchdown Modules</b>	
<b>CJRYIW</b>	Module supplied with one RCA connector with yellow insert
<b>CJRRIW</b>	Module supplied with one RCA connector with red insert
<b>CJRWIW</b>	Module supplied with one RCA connector with white insert
<b>RCA Pass-Through Modules</b>	
<b>CMRPRIW</b>	Module supplied with one RCA pass-through coupler with red insert
<b>CMRPIW</b>	Module supplied with one RCA pass-through coupler with yellow insert
<b>CMRPWIW</b>	Module supplied with one RCA pass-through coupler with white insert
<b>CMPRBIW</b>	Module supplied with one RCA pass-through coupler with blue insert
<b>CMRPGIW</b>	Module supplied with one RCA pass-through coupler with green insert



**CMFIW**



**CMFSRIWY**



**CMBA75IWY**



**CMBAIWY**



**CJRYIW**



**CJRRIW**



**CJRWIW**



**CMRPRIW**



**CMRPIW**



**CMRPWIW**



**CMPRBIW**



**CMRPGIW**

## Accessories

# Panduit® Accessories for PanGen® Systems

## Mini-Com® Audio/Video Modules

### RCA 1/3 Inserts

- Compatible with classic and executive faceplate frames (page 42)

Part Number	Part Description
<b>CHR3RGBIW</b>	1/3 insert with three RCA pass-through couplers. RCA insert colors are red, green, and blue. R, G, B component video
<b>CHR3WYRIW</b>	1/3 insert with three RCA pass-through couplers. RCA insert colors are white, yellow and red. W, Y, R composite video

### S-Video Punchdown Module

- Terminates to 24 and 22 AWG solid or stranded conductors

Part Number	Part Description
<b>CJSVIW</b>	Module supplied with one S-Video connector

### S-Video Pass-Through Module

- Supplied with one 4-pin mini DIN coupler

Part Number	Part Description
<b>CMSVCIWY</b>	Module supplied with one S-video pass-through coupler

### 15-Pin High-Density D-Subminiature Module

- Field terminable module features 15-pin screw terminal
- SVGA capable

Part Number	Part Description
<b>CMD15HDIWY</b>	2-position module supplied with one 15-pin DB connector mounted to a printed circuit board; terminates on site

### Module Base for D-Subminiature Connectors

Part Number	Part Description
<b>CMDBIW-X</b>	2-position module base which accepts 9-pin and 15-pin high-density D-subminiature connectors



**CHR3RGBIW**



**CHR3WYRIW**



**CJSVIW**



**CMSVCIWY**



**CMD15HDIWY**



**CMDBIW-X**

## Mini-Com® Audio/Video Modules

### D-Subminiature Inserts

Part Number	Part Description
<b>CHD9CIWY</b>	1/3 insert with 9-pin female to female coupler
<b>CHD15HDCIWY</b>	1/3 insert with 15-pin high-density female to female coupler; SVGA capable
<b>CHD15HDSCIWY</b>	1/3 insert with one 15-pin DB connector mounted to a printed circuit board; terminates on site; SVGA capable



**CHD9CIWY**



**CHD15HDCIWY**



**CHD15HDSCIWY**

### 3.5 mm Stereo Connector and Coupler Modules

- Accept male plug found on typical stereo headsets
- Solder-type connector accepts 22 AWG stereo wire or smaller
- Insulation resistance exceeds 100 milli-ohms at DC 500 V
- Rated for DC 12 V, 1A

Part Number	Part Description
<b>CM35MSCIWY</b>	3.5mm stereo coupler module
<b>CM35MSSIW</b>	Module supplied with one 3.5mm (1/8") stereo headset solder-type connector



**CM35MSCIWY**



**CM35MSSIW**

### 5-Way Binding Post Modules

- Accept a variety of termination ends, including bare speaker wire (10-12 AWG) and banana plugs

Part Number	Part Description
<b>CMBPB_IWY</b>	Module supplied with one 5-way binding post with black stripe
<b>CMBPRI_IWY</b>	Module supplied with one 5-way binding post module with red stripe



**CMBPB\_IWY**



**CMBPRI\_IWY**

## Accessories

# Panduit® Accessories for PanGen® Systems

## Mini-Com® Audio/Video Modules

### HDMI Coupler

- Supports Category 1 and Category 2 HDMI cable
- Backwards compatible

Part Number	Part Description
<b>CMHDMIIW</b>	HDMI1.3 Type A female to female Category 2 coupler module



**CMHDMIIW**

### USB Coupler

- Accepts USB 2.0 patch cords and is backwards compatible with USB 1.1 patch cords
- Supports cable lengths up to 15 feet between devices

Part Number	Part Description
<b>CMUSBAAIW</b>	USB 2.0 female A to female A coupler module



**CMUSBAAIW**

### Blank Module

Part Number	Part Description
<b>CMBIW-X</b>	1-position, reserves space for future use



**CMBIW-X**



General Cable offers a complete line of Gepco® Brand Commercial A/V Cabling Solutions to support Panduit's A/V products. Go to [www.gepco.com](http://www.gepco.com) or ask your PanGen® representative for more details.



## Mini-Com® Termination Tools

### Cable Prep Tools

Part Number	Part Description
<b>CWST</b>	Copper conductor snipping tool
<b>CJAST</b>	Cable jacket stripping tool
<b>CJASTB</b>	Replacement blade for cable stripping tool



**CWST**



**CJAST**

### Module Termination Tools and Accessories

Part Number	Part Description
<b>TGJT</b>	TG termination tool easily terminates all TG-style jack modules by cutting conductors flush and assembling wire cap and jack. Ideal for high-volume installations
<b>EGJT</b>	Terminates enhanced Giga-TX TG-style jack modules
<b>AVPDB</b>	Audio/video punchdown base used to assist in terminating Mini-Com S-Video and RCA punchdown modules
<b>MDC-C</b>	Jack module dust cap. Compatible with all RJ45 Mini-Com jack modules



**TGJT**



**EGJT**



**AVPDB**



**MDC-C**

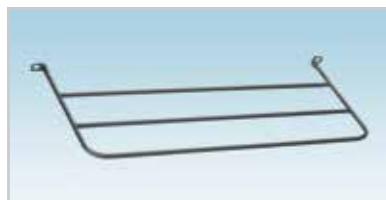
## Strain Relief Bar/Manager

### Strain Relief Bar/Manager

Part Number	Part Description
<b>SRBM19BLY</b>	Strain relief bar with six Tak-Ty® Hook & Loop Cable Ties; supports, manages and provides proper bend radius protection for up to 72 cables
<b>SRBCT</b>	Strain relief bar includes 24 cable ties to secure cable to each individual slot for additional stability; supports, manages and provides proper bend radius protection
<b>SRB19BLY</b>	Strain relief bar extends 2" off the rack; supports, manages and provides proper bend radius protection.
<b>SRB19MDBL</b>	Strain relief multi-depth bar extends 7" off the rack; supports, manages and provides proper bend radius protection. Ideal for use with Category 6A copper cabling installations



**SRBM19BLY**



**SRBCT**



**SRB19MDBL**



**SRB19BLY**

## Identification and Labeling Systems

Variety of labeling systems and labels to enable quick and easy network identification

### PanTHER™ LS8EQ Hand-Held Thermal Transfer Printers

Part Number	Part Description
<b>LS8EQ-KIT-ACS</b>	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-ACS, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual
<b>LS8EQ-KIT</b>	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card and operator's manual
<b>LS8EQ</b>	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries and quick reference card

### PanTHER™ LS8E Hand-Held Thermal Transfer Printer and Accessories

Part Number	Part Description
<b>LS8E</b>	LS8E printer, one cassette of self-laminating labels, six AA alkaline batteries and quick reference card
<b>LS8E-KIT</b>	LS8E printer, one cassette of self-laminating labels, six AA alkaline batteries, rigid carrying case, LS8-PCKIT, LS8-IB, operator's manual and quick reference card
<b>S100X150VAC</b>	Self-laminating, white vinyl label for use with LS8E printer

### Thermal Transfer Desktop Printer and Accessories

Part Number	Part Description
<b>TDP43ME</b>	300 dpi printer; includes printer, Panduit® Easy-Mark™ Labeling Software, RMEH4BL hybrid black ribbon, AC power adapter with US power cord, USB cable, user manual, quick start card and driver disk
<b>S100X150VA1Y</b>	Self-laminating, white vinyl label for use with thermal transfer desktop printer

For complete identification offering, reference the Panduit Physical Infrastructure Systems Catalog (SA-NCCBS1) or visit [www.panduit.com](http://www.panduit.com).



LS8EQ-KIT



LS8EQ



LS8E



LS8E-KIT



TDP43ME



S100X150VAC and S100X150VA1Y

## Accessories

## Panduit® Accessories for PanGen® Systems

# Racks and Cable Management Grounding and Bonding Solutions

Part Number	Part Description
<b>R2P</b>	19" EIA rack, aluminum, 84.0" H x 20.3" W x 3.0" D (2134 mm x 514 mm x 76 mm), 45 RU
<b>WMPV45E</b>	NetRunner™ front and rear vertical cable manager with dual hinged cover, wire retainers and side mount brackets, 45 RU
<b>WMPSE</b>	PatchLink™ front and rear horizontal cable manager with dual hinged cover, 1 RU
<b>WMP1E</b>	PatchLink™ front and rear horizontal cable manager with dual hinged cover, 2 RU
<b>CMPH1</b>	OpenAccess™ front and rear horizontal cable manager with optional snap-on cover, 1 RU
<b>CMPH2</b>	OpenAccess™ front and rear horizontal cable manager with optional snap-on cover, 2 RU
<b>CMPHF1</b>	OpenAccess™ front only horizontal cable manager with optional snap-on cover, 1 RU
<b>SRM19FM1</b>	Rack mount shelf, 30 lb. capacity, 1 RU
<b>SRM19FM2</b>	Rack mount shelf, 50 lb. capacity, 2 RU



Part Number	Part Description
<b>RGS134-1Y</b>	Rack grounding strip 78.65" L x 0.67" W x 0.05" D (2 mm x 17 mm x 1.27 mm). Provided with 5 cc of antioxidant, one grounding sticker, and three each M6 x 12 mm and #12-24 x 1/2" thread-forming screws
<b>GPQC10-1/0</b>	Access floor grounding clamp for 7/8" square, 1" round, and 1-1/8" round pedestals
<b>RGCBNJ660P22</b>	Common bonding network to rack jumper kit. Provided with HTAP that bonds to MCBN sizes ranging from 16 mm <sup>2</sup> - 25 mm <sup>2</sup>



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Form No. DAT-0156-0913



18900 Panduit Drive  
Tinley Park, IL 60487  
800.777.3300  
[www.panduit.com](http://www.panduit.com)  
[cs@panduit.com](mailto:cs@panduit.com)  
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