

# The Wireless Campus

**PanGen**<sup>®</sup>  
STRUCTURED CABLING SOLUTIONS



The move to wireless technology has, perhaps surprisingly, increased the importance of cabling in a school or throughout a campus. The reliance on Wi-Fi in the classroom demands robust infrastructure that can support tens to hundreds of devices per room, depending on room size, all simultaneously accessing the network. In addition, educational institutions are utilizing wireless sensors and Power over Ethernet (PoE) technology to provide smarter and more efficient security and building automation systems. Wi-Fi access for student housing, common areas, libraries, and even outdoor quads has become an expectation, not a nice-to-have. Despite the term “wireless”, all of these cases require more cabling and more bandwidth to the access point. The PanGen Cat 6A Solution is ideal to provide the necessary bandwidth for wireless access points (WAPs), as well as superior heat dissipation when using PoE to power the WAPs. Prysmian’s GenSPEED<sup>®</sup> 10 MTP™ Gen 5 Category 6A Cables feature enhanced alien crosstalk protection and EMI immunity, and improved heat dissipation beyond the industry norm. Rated to 105°C and with a 0.230” diameter, GenSPEED<sup>®</sup> 10 MTP™ Gen5 is the industry smallest 6A Cable, boasting a LP rating of 0.7A making 10 MTP the most robust cable in the market. Combined with Panduit’s TG jack, which is rated to 65°C (5°C above the industry standard), PanGen’s Category 6A cabling solution has been designed to support the most extreme wireless installations. Beyond connectivity, many wireless networks require in-ceiling installations, demanding plenum-rated products. In addition, Panduit offers a full suite of products rated to UL 2043, from patch cords to jacks, and surface mount boxes.

Today’s college students are connecting 7 – 8 devices per student to the wireless system in their residence halls.

For additional Panduit or GenSPEED<sup>®</sup> components, visit [www.pangensolutions.com](http://www.pangensolutions.com)

**PANDUIT**<sup>®</sup>

**General Cable**

A Brand of Prysmian Group

PNG-0019-0821

Part Number	Part Description
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### GenSPEED<sup>®</sup> Horizontal Cable



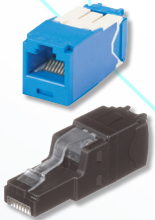
7151849	GenSPEED <sup>®</sup> 10 MTP™ Category 6A U/UTP copper cable with advanced Mosaic Variable Laser Cut, plenum, 4-pair, blue.
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### Panduit Copper Patch Cords



UTP6AX3BU	Category 6A performance, 24 AWG, UTP patch cord, CM, enhanced performance modular plugs. Blue, 3 ft.
UTP28X3BU	Category 6A performance, 28 AWG, UTP patch cord, CM/LSZH, enhanced performance modular plugs. Blue, 3 ft.

### Panduit RJ45 Modules



CJ6X88TGBU	Category 6A, RJ45, 8-position, 8-wire jack module with MaTriX Technology. Supports high-bandwidth applications and is ideal for running next generation Power over Ethernet (PoE++). UL Rated: UL 1863 and UL 2043.
FP6X88MTG	Category 6A UTP field term RJ45 plug for field termination of 4-pair unshielded twisted pair cable.
FC-ICCP1MBU	Category 6/6A Indoor Connector Cord, UTP, plenum cable, Blue, 1m.

### Panduit Surface Mount Boxes



CBX1IW-A	Mini-Com <sup>®</sup> 1-port Low Profile Surface Mount Box accepts a single Mini-Com <sup>®</sup> Module, Off White. UL Rated: UL 1863 and UL 2043. Mounts easily with screws or adhesive tape. Accepts cable sizes through Category 6A.
CBX2IW-AV	Mini-Com <sup>®</sup> 2-port Low Profile Surface Mount Box accepts up to two Mini-Com <sup>®</sup> Modules, Off White. Includes built-in removable blank to add a second module. UL Rated: UL 1863 and UL 2043. Mounts easily with screws, adhesive tape, or magnet (sold separately). Accepts cable sizes through Category 6A.

### Panduit Hook & Loop Cable Ties



HLTP2I-X12	Hook and loop cable ties for use in plenum spaces; loop ties with a slot for prewrapping of bundles; adjustable, releasable, and re-usable multiple times; 8" length, 0.5" width, maximum bundle diameter of 1.91", Maroon.
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### Panduit J-Pro Cable Supports



JP2DW-L20	J-Pro™ Cable Support with clip for use with #12 wire and threaded rod; 2" maximum bundle capacity. Design provides horizontal and vertical bend radius control to preserve cable performance and prevent damage
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