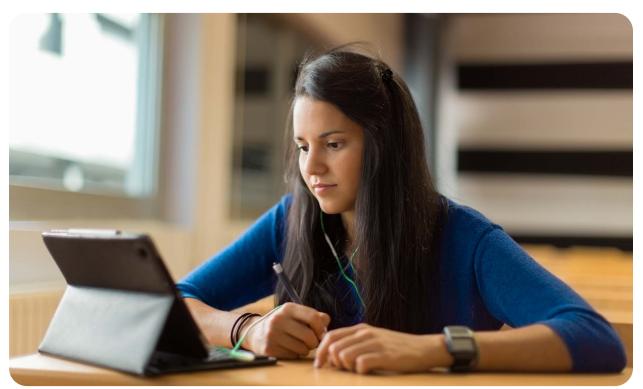# The Wireless Campus

The global pandemic accelerated the adoption of 1:1 devices in classrooms. Throughout the world, many schools have implemented 1:1 programs, providing every student with a device. This allowed remote learning to happen during the height of the pandemic, and use continues today, with textbooks and learning tools provided electronically.

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

This growing use of devices in the classroom and throughout the campus has increased the demand for enough Wi-Fi capacity to support every student and staff member – sometimes with more than one device. The reliance on Wi-Fi in the classroom demands robust infrastructure that can support all these devices, all simultaneously accessing the network.

Despite the term "wireless," enabling all this capacity requires more cabling and more bandwidth to the access point. Panduit recommends installing Category 6A cabling to wireless access points (APs) to provide the necessary bandwidth, as well as superior heat dissipation when using PoE to power the APs. The Panduit Category 6A Vari-MaTriX HD Cabling System utilizes MaTriX Technology to improve heat dissipation beyond the industry norm. Rated to 90°C, MaTriX Cable is the most robust PoE cabling option on the market. Combined with the Panduit TG jack, which is rated to 65°C (5°C above the industry standard), Panduit's Category 6A cabling has been designed to support the most extreme wireless installations.

And connecting access points is a breeze with Panduit. Field term plugs or the FieldCord™ Connector enable direct connection of access points to horizontal cabling, in a standards-compliant configuration.

Part Number	Part Description
Horizontal Cable	
PUP6AHD04BU-G	Category 6A U/UTP copper cable with Vari-MaTriX HD Technology, plenum, 4-pair, Blue.
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.
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	TX6A™ Category 6A UTP FieldCord™ Connector for field termination of 4-pair UTP cable to connect devices with confined port spaces.
Surface Mount Boxes	
CBX1IW-A	Mini-Com® 1-port Low Profile Surface Mount Box accepts a single Mini-Com® Module, Off White. UL Rated: UL 1863 and UL 2043. Mounts easily with screws or adhesive tape. Accepts cable sizes through Category 6A.
CBX2IW-AY	Mini-Com® 2-port Low Profile Surface Mount Box accepts up to two Mini-Com® 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.
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.
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.

See www.panduit.com for additional colors, sizes, cable jackets, and performance offerings.

For more information
Visit us at www.panduit.com
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or by phone: 800.777.3300

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