

PANDUT®



More than ever, technology is a significant factor in how schools teach, and students learn. Typically referred to as Instructional Technology, it can include all manner of digital technology including computer hardware, software, the internet, and other resources that facilitate and enhance student learning in the classroom. The promise is that technology will foster increased collaboration, engagement, and support among faculty and students. However, technology cannot do this on its own, and thoughtful development of curriculum and professional development are required to produce the best results.

The network is vital for connecting technology and infrastructure is foundational to that network. A robust physical layer is critical in ensuring a reliable network throughout the school or campus, to support:

- Always-on wireless connectivity for student, faculty, and staff devices
- Reliable transmission of data between instructors and students and throughout the campus
- Ample bandwidth to support a variety of instruction platforms, communication, and smart building applications
- Power over Ethernet to deliver power and Ethernet through a single cable

Panduit has been more than a supplier to educational facilities since our founding in 1955. We continually innovate and work to ensure we provide the foundational infrastructure needed to provide optimal student and faculty experiences. This infrastructure needs to be reliable and adaptable to support changing needs over many years. Panduit offers a comprehensive array of copper, fiber, and supporting infrastructure products that will support student and educator needs both today and into the future.



Network Infrastructure Recommendations for Educational Facilities

Networks within schools fall under the guidance of ANSI/TIA-4966: Telecommunications Infrastructure Standard for Educational Facilities. The standard recommends:

- Copper: Category 6A cabling solutions for new installations
- Fiber: LC connectors with OM4 or OM5 cabling for new installations

Beyond meeting the standards, the physical layer should support key systems within a building or across a campus:

- Wireless: The move to personal devices in the classroom has been swift. Today, about 9 in 10 public schools (88 percent), have a 1-to-1 computing program that provides every student a school-issued device, such as a laptop or tablet, according to data from the National Center for Education Statistics. These wireless tablets and computers make Wi-Fi the most in-demand system within a school. To meet Wi-Fi demand, Panduit recommends running at least two to four Category 6A cables to every wireless access point. This ensures there is cabling available for future wireless expansion to Wi-Fi 6E and Wi-Fi 7, allowing for elements like link aggregation or additional access points to support spectrum partitioning or extra capacity.
- Classroom Technology: software, hardware, web-based or stand-alone, educators use a myriad of digital tools to deliver education in the classroom.
- Smart Building Systems: systems like intelligent lights, access control, security cameras, and building automation systems are growing in popularity, requiring a robust network to support the connected devices, as well as space in the telecommunications closet to house the equipment. A wired backbone ensures that connected devices have the data and power needed.
- Power over Ethernet: hard wired sensors and equipment can receive data and power over a single Ethernet cable, eliminating concerns over battery monitoring and maintenance.
- Fault Managed Power Systems (FMPS): long-distance, reliable power helps schools support more technology while keeping installations simple, safe, and cost-effective. Easily and safely power things like classroom displays, security systems, and lighting without the need for complex wiring.

See how Northwest ISD in Texas manages rapid growth and technology advancements in their school district of 30,000 students. **Learn more**

Network Infrastructure for Schools

Panduit Category 6A solutions deliver bandwidth, along with the industry's best thermal properties to manage Power over Ethernet.

Copper Cable

Panduit cables offer the highest performance in the smallest available form factors.

Part Number	Performance Level	Flame Rating	AXT Barrier Tape	Cable Diameter (In.)	LP Rating	Packaging	Color
PUP6AHD04BU-G	Category 6A	Plenum (CMP, FT-6)	Vari-MaTriX Cables	0.230	CMP-LP (0.7A)		
PUR6AV04BU-G	UTP Premium	Riser (CMR, FT-4)	Continuous	0.260	CMR-LP (0.5A)	Reel	
PUP6XHD04BU-G	Category 6A UTP Standard Compliant Plus	Plenum (CMP, FT-6)	_	0.230	CMP-LP (0.7A)		Blue
PUP6004BU- WLPZ	Category 6 UTP	Plenum (CMP, FT-6)	_	0.222	CMP-LP (0.5A)		
PUR6004BU-W	Enhanced	Riser (CMR, FT-4)	_	0.237	_	Easy	
PUP6C04BU- WLPZ	Category 6 UTP Standard	Plenum (CMP, FT-6)	_	0.205	CMP-LP (0.5A)	Payout Carton	
PUR6C04BU-U	Compliant Plus	Riser (CMR, FT-4)	_	0.210	_		



PUP6AHD04BU-G

Connectors

Panduit Mini-Com® connectors deliver reliability and performance that comes from years of innovation and focus on quality. Quick and easy installation makes the system easier to install and manage.



CJ6X88TGBL



CJ688TGBU

and manage.					
Part Number	Jack Type	Performance Level	Color*	Termination Style	
CJ6X88TG*		Category 6A	Black (BL), Blue (BU), Electric Ivory (EI), Green (GR), International Gray (IG), Off White (IW)		
CJ688TG*	Unshielded	Category 6	International Gray (IG), Off White (IW), Orange (OR), Red (RD), Violet (VL), White (WH), Yellow (YL)	TG-Style	
CJ6X88TG*-24	Standard	Category 6A	Black (BL), Blue (BU), White (WH)		
CJ688TG*-24	38TG*-24		DIACK (DL), DIUE (DU), WITHE (WIT)		

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Part Number	Jack Type	Performance Level	Color*	Termination Style
CJUDCAPBU-X	Unshielded Cable Entry Up/Down+		D. (D.)	TO 01-1-
CJLRCAPBU-X	Unshielded Cable Entry Left/Right+	Category 6A	Blue (BU)	TG-Style

Replace * in part number with color code to select color

⁺ Angled wire caps help to improve bend radius in tight spaces



Plugs

Field terminable plus terminate as easily as a jack to offer simple and reliable terminations for applications like wireless access points and security cameras.

	•	•		
Part Number	Plug Type	Performance Level	Color	Termination Style
FP6X88MTG	I lookielded Ctreicht			
FP6X88MTG-X	Unshielded Straight	2/2	Black	TG-Style
FPUD6X88MTG	Unabiolded AES Applied	Category 6/6A		
FPUD6X88MTG-X	Unshielded 45° Angled			



-X indicates 10 pieces per package

The newest addition to the field terminable family of plugs is the FieldCord Connector, designed with a small plug and cable for use in applications with a small port opening, where the traditional field term plug may be too large.



	7	
FC-IC	CP0.5	MBU

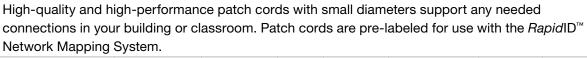
Part Number	Plug Type	Performance Level	Flammability Rating	Length (m)	Color*
FC-ICCP0.5MBU	Unshielded	Category 6A	СМР	0.5	Dluc
FC-ICCP1MBU	Connector Cord			1	Blue
FC-ISC	Unshielded Connector Assembly				Black

^{*}Also available in white, replace BU in part number with WH to indicate white

⁻²⁴ indicates 24 pieces per package

Patch Cords

PANDUIT" ______





Part Number	Performance Level	Cable Type	AWG	Cable Diameter In. (mm)	Flammability Rating	Length^	Color*
UTP28X^*	Category 6A	Unshielded	28 -	0.185 (4.7)	CM/LSZH	8", 1', 3', 5', 7', 10', 15'	Off White (blank), Black (BL), Blue (BU), Green (GR), Red (RD), Yellow (YL)
UTP28SP^*	Category 6			0.15 (3.8)			
UTP6AX^*	Category 6A		24	0.25 (6.4)	СМ	1', 3', 5', 7', 10', 15'	
UTPSP^*Y	Category 6			0.24 (6.0)			
BKA6ASD8INBL	Category 6A		26	_		8"	Black

Faceplates

Stainless Steel

2

4

CFPL2SY

CFPL4SY

With a variety of port densities and styles, these faceplates work with any Mini-Com® Jack



CFPL1IWY



CFPSL4IWY



CFPL4SY

Part Number	Ports	Style	Identification	Color					
Classic Series									
CFPL1IWY	1		Lab al Da alcat	Off White					
CFPL2WHY	Label Pocket Flat		Label Pocket	White					
CFP2IW	2	2	Adhesive	Off White					
CFPSL2WHY		Sloped		White					
CFPL4IWY		Flat	Label Pocket	0.62.1411.11					
CFPSL4IWY	4	Sloped		Off White					
Executive Series									
CFPE2IWY	2	Flat	Label Pocket	Off White					
Part Number	Ports	Style	Identification	Size					

Flat

Single Gang

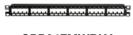
Label Pocket



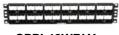
Patch Panels

Panduit pioneered angled patch panels, making it easier to route cables to the side of racks and cabinets, enabling higher density in the telecommunications closet. A variety of port densities, configurations, labeling options, and colors mean you can find the right patch panel for your application.

	Part Number	Number of Ports	Number of Rack Units	Style	Identification	Color
	Flush Mount					
9	CPP24FMWBLY	24	1	Flat	Adhesive	Dlask
	CPP48FMWBLY	48	2	Flat		Black
	Front Access					
	CPP24WBLY	24	1	Flat	Adhesive	
	CPPL24WBLY				Label Pocket	Disala
	CPP48WBLY				Adhesive	Black
	CPPL48WBLY	48	2		Label Pocket	
	High Density					
	CPP48HDEWBL		4		Adhesive	Dlask
io.	CPP48HDVNSWBL	48	1 Flat	riat		Black



CPP24FMWBLY



CPPL48WBLY



CPP48HDEWBL

Outlet Boxes

Surface mount boxes accept Mini-Com Jack Modules to provide protected connections for a variety of devices.



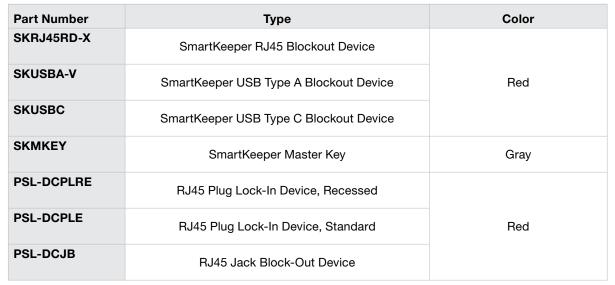
Part Number	Ports	Style	Identification	Magnet	Color
CBX1WH-A	1	Elongated	A alla a circa	_	White
CBX2WH-AY	2	Elongated	Adhesive	CBM-X	White



Network Physical Security

Prevent unauthorized network access via network connections with lock-in and block-out devices.







SKRJ45RD-X

Fiber Optic Panels, Cassettes, and Enclosures

Enhance your fiber optic system with an assortment of fiber optic panels, cassettes, and enclosures.



FRE1UBL



FWME2

Oncorte (FAD/FOOM									
Part Number	Description	Cassette/FAP/FOSM Openings	Color						
Fiber Enclosures									
FRE1UBL	Rack mount fiber enclosure, 1 RU	4							
FCE1U	Rack mount fiber enclosure, 1 RU, with sliding/tilt drawers	4	Black						
FWME1BL	Wall mount fiber enclosure	1							
FWME2	Wall mount fiber enclosure	2							

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FAP6WAQDLCZ

Part Number	No. of Ports	Adapter Type	Fibers	Split Sleeve	Color
Fiber Adapter Pane	els				
FAP6WAQDLCZ	6	Duplex LC	12	Zirconia	Aqua
FAP12WAQDLCZ	12		24		
FAP6WBUDLCZ	6		12		Blue
FAP12WBUDLCZ	12		24		



Part Number	Fiber Type	Pigtails	Connector	Performance	
Fiber Splice Casset	ttes				
FCSZO-12-10P	OM4	250um Digtaile	LC	Optimized	
FCS9N-12-10P	OS2	250µm Pigtails	LO	Standard	

	Part Number	Fiber Type	Connector Type	Fiber Count	Jacket In. (mm)	Flame Rating	Performance	Length Ft. (m)*
	Patch Cords and Pi	igtails						
0-	FZ2ERLNLNSN M001	OM4	LC Duplex to LC Duplex	2	0.06 (1.6)	Riser		
	FZTBN1NNNSZ M001		LC to Pigtail	12	No Jacket	Not Rated	Standard IL	3.2 (1)
1	F92ERLNLNSN M001	000	LC Duplex to LC Duplex	2	0.06 (1.6)	Riser	Standard IL	
	F91BN1NNNSN M001	OS2	LC to Pigtail	1	No Jacket	Not Rated		

F91BN1NNNSNM001

OmniSplice™ Fiber Optic Connectors

OmniSplice Connectors enable rapid deployment of high performance fusion splice connectors for LANs, public networks, and storage-area networks throughout the campus



FSOCLC9

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Part Number	Connector Type	Cable Type	Fiber Type	Color
FSOCLC9	LC-UPC		Singlemode	Blue
FSOCLCX	LC-PC		Multimode	Aqua/Black
FSOCLCA	LC-APC	900µm tight-buffered, 250µm	Singlemode	Green
FSOCSC9	SC-UPC	loose-tube, and 250µm with 900µm build-up tubing	Singlemode	Blue
FSOCSCX	SC-PC		Multimode	Aqua/Black
FSOCSCA	SC-APC		Singlemode	Green

^{*}All patch cords and pigtails available in lengths 1m - 50m





FSPP912Y





Bulk Fiber Optic Cable

From indoor to indoor/outdoor to outside plant cables, you'll find a wide range of fiber optic cables that are easy to install and provide high-density connectivity.

Part Number	Cable Type	Flame Rating	Fiber Type	Fiber Count
FSDP912Y	Indoor distribution		9µm Singlemode OS2	
FODPZ12Y	cable		50µm Multimode OM4	
FSPP912Y	Indoor armored cable Indoor interlocking armored cable Indoor/outdoor all-	Plenum	9µm Singlemode OS2	
FOPPZ12Y		Flerium	50µm Multimode OM4	12
FSCP912Y			9μm Singlemode OS2	12
FOCPZ12Y	dielectric cable		50µm Multimode OM4	
FSTN912	All-dielectric	Non-rated	9µm Singlemode OS2	
FOTNZ12	outside plant cable	ivon-rated	50µm Multimode OM4	



Open frame racks help ensure network availability and peak performance in telecommunication rooms and data centers.

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Equipment Rails	Load Capacity Lbs.	Color
R2P	84.0 (2134.0)	20.3 (516.0)	3.0 (76.0)		#12-24	1000	
AR4P	84.12 (2136.9)	20.31 (515.9)	23.0 to 42.0 (584.2 to 1066.8)	45	Threaded	2000	Black



Cable Managers



Reduce the required space to route, manage, and protect high cable capacities with vertical and horizontal cable management and rack solutions.

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	No. of Doors Included	Color
PR2VD06	84.0 (2134.0)	6.0 (152.0)	20.6 (523)	45	Duel		
WMPVHC45E	83.0 (2108.0)	6.7 (170.0)	14.1 (357)	45	Dual	2	Black
PR2HF1	1.79 (45.5)	19.0 (484.0)	7.9 (202.0)	1	Single	1	

Wall Mount Switch Cabinet

Bring connections closer to devices with the TrueEdge[™] Vertical Wall Mount Enclosure.



Part Number	Description
WME3BL	TrueEdge Wall Mount Enclosure houses 36" of active equipment in a low-profile enclosure; 9.5" deep x 42" high
WME31RU	Bracket for TrueEdge Wall Mount Enclosure
WMEGK	Ground Kit for TrueEdge Wall Mount Enclosure
PZAEFAN	Fan Kit for TrueEdge Wall Mount Enclosure
ACF06	SmartZone Security Handle

XG84222BS0001

Cabinets

House critical network equipment in FlexFusion™ Cabinets, which provide maximum flexibility and the capacity to manage high cable densities.

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Color
XG84222BS0001	78.7 (1999.0)	32.0 (800.0)	48.0 (1200)	42	Black

Cable Pathways

Segregate, route, and protect high-performance cabling systems throughout your buildings.



FR4X4YL6



PWB4X12EZ



PWBSPLEZ

Part Number	Description	Color			
FiberRunner® Rout	FiberRunner® Routing System				
FR4X4YL6	FiberRunner® 4x4 Routing System, channel with cover, 4.44 inches high x 5.50 inches wide, in 6-foot lengths.	Yellow			
Wire Basket					
PWB4X12EZ	Wire Basket Overhead Cable Tray Routing System, 4.0 inches high x 12 inches wide, in a 12-foot length.	Electro Zinc			
GACB-2	StructuredGround™ Auxiliary Cable Bracket for bonding Wire Basket systems together	Zinc Plated			
PWBTB12EZ	Wire Basket Mounting Bracket; trapeze bracket for use with existing threaded rods for 12-inch wide pathway				
PWBSPLEZ	Wire Basket Bolted Style Splice	Electro Zinc			
PWBHKEZ	Wire Basket Hardware Kit				

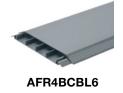


Part Number J-Hooks	Description	Max. Bundle Capacity In. (mm)	Material
JP2SBC50RB-L20	J-Hook with screw-on beam clamp for	2.0 (50.8)	Nylon 6.6 with
JP4SBC50RB-X20	use with flanges up to 0.5-inch thick	4.0 (101.6)	metal

Visit www.panduit.com to see the full line of channels, brackets, connectors, and accessories for FiberRunner and Wire Basket, along with a broad offering of J-Hooks.

Raceway

Route, protect, and conceal data, voice, and video cabling along walls or above floors.



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Part Number	Description	Interior Dimensions	Length (Ft.)	Color
LD10IW10-A	LD10 Surface Raceway Channel with latching cover and adhesive mounting	1.5" wide x 0.94" deep	10	Off White
AFR4BCBL6	Above Floor Raceway 4-channel base and cover, ADA compliant	6.93" wide x 0.5" deep	6	Black
AFR4TBLGBL	Above Floor Raceway Table Leg Fitting to route cable to a table	6.4" wide x 30" high	_	DIACK
T70BIW10	T-70 Surface Raceway Base	4.07" wide x 1.77" deep	10	Off White

Visit www.panduit.com to see additional sizes and colors of raceway available.

Grounding and Bonding

Maintain system performance and protect personnel and equipment with grounding and bonding systems that provide high quality, visually verifiable connections and dedicated grounding paths.



HTCT250-2-1

Part Number	Description
GCE250-1/0-Q	E-Style Grounding Connector meets IEEE STD 837-2002 and REV 2014; UL467 and CSA certified for grounding, bonding, and suitable for direct burial in earth or concrete
HTCT250-2-1	Code/Flex Conductor HTAP, Type HTCT for making parallel and multiple tap connections on code and flex conductors

Uninterruptible Power Supply (UPS)

Depend on Panduit UPS for highly efficient and reliable power protection and backup power for computer IT equipment.



U02N11L

Part Number	Description				
U02N11L	UPS, 1.5kVA, 2 U, 120V, Single Phase, Lithium-Ion Power Protection with Intelligent Network Card and Rail Kit				
U05N11V	UPS, 5kVA, 6 U (3 U UPS + 3 U EBP), 208/240V, VRLA, Single Phase, Double-Conversion On-Line Power Protection with Intelligent Network Card and Rail Kit				
UTFMRDU	Step-Down Transformer Distribution Unit is a step-down transformer/voltage converter that provides 120 VAC output power from 208 VAC				
U2PTRMT	2-Post Rack-Mount Adapter Kit for Rack-Mount 2 RU UPS/Battery Systems				



Power Distribution Units (PDU)

Customize your power profile to best suit your needs, with basic and intelligent rack PDUs offering best-in-class outlet density and superior reliability.

P24D23M



P16D12M

	Part Number	Input Current per Phase	Form Factor	Input Plug Type	Apparent Power kVA	Outlet Count	Outlet Type	Length In. (mm)	Width In. (mm)	Depth In. (mm) at Outlet Position
	P36E33M		0 U FULL	L6-30	5.0	36	(30) C13, (6) C19	68.9 (1750.1) 58.7 (1491.0)	2.0 (50.8)	2.1 (58.34)
	P24E28M			L6-30P	5.0		(20) C13, (4) C19			
	P24D23M		0 U MID	L5-30P	2.9	24	(24)5- 20R			
	P24D07M			L6-30P	5.0		(20) C13, (4) C19			
P16D12M		2U	L5-30P	2.9	16	(16)5- 20R	3.4 (87)	17.5 (444)	10.6 (270)	

Labeling and Identification

Proper identification of cables, racks, panels, and outlets not only is required to meet standards, but also simplifies management of the network after installation.



MP300

Part Number	Description			
Printer and Easy-M	Printer and Easy-Mark Software			
MP300	MP300 PXE Series Mobile Printer, combines Epson print technology and Panduit labeling and software expertise for industrial grade marking solutions for network and electrical contractors			
EMPLUS-DL	Easy-Mark Plus™ Labeling Software, online download			

Front Access



Part Number	Label Type	Labels per Cassette	Print-On Area Color	Width (In.)	Length (In.)
R100X150V1M	Turn-Tell®	100	Black on White	1.0	1.5
S100X150VAM	Self- Laminating	175	Black on White	1.0	1.5



PANDUIT®

Since 1955, Panduit's culture of curiosity and passion for problem solving have enabled more meaningful connections between companies' business goals and their marketplace success. Panduit creates leading-edge physical, electrical, and network infrastructure solutions for enterprise-wide environments, from the data center to the telecom room, from the desktop to the plant floor. Headquartered in Tinley Park, IL, USA and operating in 112 global locations, Panduit's proven reputation for quality and technology leadership, coupled with a robust partner ecosystem, help support, sustain, and empower business growth in a connected world.

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www.panduit.com

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