

Hospitality ordering guide

Infrastructure solutions for North America Rev. 10/21



Introduction

Throughout a guest's stay, from the time the guest checks in, to in-room services, to the fitness room, spa and conference rooms... guests expect ubiquitous connectivity, seamless on-boarding, fast speeds and a personalized experience. At the same time, hoteliers need a network that keeps the property, staff, guests and your business data safe and secure. These needs, and the need to reduce the total cost of ownership and maximize the lifecycle of the investment, are driving an increase in network complexity.

CommScope understands the unique pressures of the hospitality industry. That's why we build simpler, more reliable and adaptable network solutions that unlock the potential of your network.

This guide contains a selection of products and solutions installed in hotels around the globe today. CommScope offers solutions that include traditional fiber in the risers, and copper to room, as well as fiber to the room (FTTR), providing a cost-effective solution for new builds and refreshes with a 25-year warranty on the building infrastructure.

CommScope structured cabling

The structured cabling system (currently section 1.6 in the standards) documentation identifies a few basic target metrics to strive toward. For reference, CommScope recommends a lifecycle for your cabling infrastructure to be at least 15 years. Additionally, we recommend a 5- to 7-year lifecycle on switching and a 3- to 5-year cycle for wireless access points. Planning your infrastructure accordingly will ensure the highest value through return on investment. CommScope strongly recommends OM4+ fiber backbones and Category 6A copper horizontals for structured cabling that will meet the growing demands of not only today's networks, but your future growth as well.

Recommended fiber solutions: Click here Recommended copper solutions: Click here

Unique CommScope offerings

The powered fiber cable system extends the reach of traditional structured cabling. By providing dc power alongside optical fiber signals, CommScope's powered fiber cable system allows networks to deliver low-voltage power from a centralized source without the need to install extra conduits, transformers or remote uninterrupted power supplies. Click here

Undercarpet cabling solutions is a low-profile, flexible system that delivers power and data to equipment without the restrictions of underfloor ducts, walls, partitions and power/data poles. It can also eliminate the need to trench. Click here

Alternative technologies (OLS, GPON)

CommScope offers additional alternatives to traditional networking, primarily in the form of passive optical LAN (currently section 1.15). CommScope offers a comprehensive end-to-end cabling solution for passive optical networks. CommScope recommends an active fiber and Ethernet solution to meet the hungry network demands of tomorrow. There are many reasons we recommend an active Ethernet solution, including:

- 1. Dedicated bandwidth with active Ethernet vs shared bandwidth on a PON
- 2. Lose visibility on the transport with a PON
- 3. Locked into OLT/ONT vendor's gear and limitations
- 4. Possibly harder to support varying vendors

When a fiber-to-the-room solution is required or recommended, a CommScope design will help you succeed.

Recommended passive optical solutions: Click here

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Fiber-optic cabling solutions

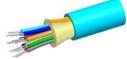
CommScope designs and manufactures a complete line of high-performance outside plant (OSP), indoor/outdoor and premises fiber-optic cables. Our multimode (LazrSPEED®) and revolutionary zero water peak singlemode (TeraSPEED®) fiber solutions provide end-to-end channel performance for all fiber-related applications. Available as loose tube all-dry and central core cables (gel-filled tubes), our fiber-optic family of cables meets critical NEC requirements for riser, plenum and LSZH applications while offering unique resistance to installation and termination stresses. Optional armored outer jacket versions are also available.

Premises fiber distribution cables

CommScope offers a complete line of riser, plenum and low smoke zero halogen (LSZH) rated cables for use inside buildings and customer premises. These cables are available in standard singlemode and multimode fiber configurations and meet all critical NEC requirements for riser or plenum applications while offering unique resistance to installation and termination stresses. Premises cables are engineered with excellent mechanical/optical performance and superior fiber ratings, with diameter 30 percent smaller and weight 50 percent lighter than comparable products.



OS2 singlemode non-armored (12-fiber)



OM4 multimode non-armored (12-fiber)



OS2 singlemode armored (12-fiber)



OS2 singlemode armored (24-fber)

Description	Jacket type	Fiber count	Product code	Material ID	
Premises fiber distribution cables—non-armored					
		2-fiber	P-002-DS-8W	760004317	
		4-fiber	P-004-DS-8W	760004325	
OS2 singlemode	Plenum	6-fiber	P-006-DS-8W	760004333	
		12-fiber	P-012-DS-8W-FSUYL	760004358	
		24-fiber	P-024-DS-8W-FSUYL	760018630	
jacket: yellow		2-fiber	R-002-DS-8W	760004408	
		4-fiber	R-004-DS-8W	760004416	
	Riser	6-fiber	R-006-DS-8W	760004424	
		12-fiber	R-012-DS-8W-FSUYL	760004440	
		24-fiber	R-024-DS-8W-FSUYL	760018515	

Description	Jacket type	Fiber count	Product code	Material ID
		2-fiber	P-002-DS-5K	760057034
		4-fiber	P-004-DS-5K	760161083
	Plenum	6-fiber	P-006-DS-5K	760012138
		12-fiber	P-012-DS-5K-FSUAQ	760006411
OM4 multimode jacket: aqua		24-fiber	P-024-DS-5K-FSUAQ	760018697
ματικει. αγμα		4-fiber	R-004-DS-5K	760088641
	D.	6-fiber	R-006-DS-5K	760012104
	Riser	12-fiber	R-012-DS-5K-FSUAQ	760012112
		24-fiber	R-024-DS-5K-FSUAQ	760018564
Premises fiber distribution Interlocking aluminum armo				
		2-fiber	P-002-DZ-8W	760128157
	Plenum	4-fiber	P-004-DZ-8W	760126136
		6-fiber	P-006-DZ-8W	760127795
		12-fiber	P-012-DZ-8W-FSUYL	760127803
OS2 singlemode		24-fiber	P-024-DZ-8W-FSUYL	760127886
jacket: yellow		2-fiber	R-002-DZ-8W	760127555
		4-fiber	R-004-DZ-8W	760126730
	Riser	6-fiber	R-006-DZ-8W	760127308
		12-fiber	R-012-DZ-8W-FSUYL	760127316
		24-fiber	R-024-DZ-8W-FSUYL	760127373
		4-fiber	P-004-DZ-5K	760251722
	Plenum	6-fiber	P-006-DZ-5K	760128181
	Fienum	12-fiber	P-012-DZ-5K-FSUAQ	760128017
OM4 multimode jacket: aqua		24-fiber	P-024-DZ-5K-FSUAQ	760127910
1		6-fiber	R-006-DZ-5K	760127506
	Riser	12-fiber	R-012-DZ-5K-FSUAQ	760127514
		24-fiber	R-024-DZ-5K-FSUAQ	760127407

EPX panels

CommScope EPX fiber-optic panels were specifically designed to make your building's infrastructure effective, efficient and easier to manage. These EPX solutions deliver high performance through modular and easy-to-use pigtail splicing cassettes. The EPX pigtailed splice cassette enables faster splicing in the field and easy modular management of connectorization within the cassette. At the core of these solutions is our modular design: install what you need now; build out later and pay as you grow. These 19-inch panels fit perfectly in your racks, providing adequate room for managing your connectivity as well as your cables. They also come in variety of sizes with LC or MPO connectors to match your specific needs.



Description	Product code	Material ID
EPX 19-in rack-mount shelves		
EPX 1U sliding panel, accepts (3) LGX/PNL style splice cassettes, modules or panels, providing up to 36 duplex LC ports	EPX-1U-PNL-ENC	760249997
EPX 1U fixed panel, accepts (3) LGX/PNL style splice cassettes, modules or panels, providing up to 36 duplex LC ports	EPX-1U-PNL-ENC-FX	760251043
EPX 2U sliding panel, accepts (6) LGX/PNL style splice cassettes, modules or panels, providing up to 72 duplex LC ports	EPX-2U-PNL-ENC	760251045
EPX 2U fixed panel, accepts (6) LGX/PNL style splice cassettes, modules or panels, providing up to 72 duplex LC ports	EPX-2U-PNL-ENC-FX	760251047
EPX 4U sliding panel, accepts (16) G2 style splice cassettes, modules or adapter packs, providing up to 192 duplex LC ports	EPX-4U-MOD-ENC	760251048
EPX 4U fixed panel, accepts (12) LGX/PNL style splice cassettes, modules or panels, providing up to 144 duplex LC ports	EPX-4U-PNL-ENC-FX	760251051

Wall-mount building enclosures

The CommScope wall-mounted building entrance enclosures are designed to enable field and factory terminations, and field splicing in a single unit. Units can accommodate up to 96 SC and 192 LC fiber terminations or 16, 32, and 64 MPO adapters. The enclosure also stores fiber splices and can accommodate 96 fusion splices or 72 mechanical splices with the appropriate splice holders.





WB2-EMT-BK-2P-PNL (closed)

WB2-EMT-BK-2P-PNL (open, unloaded)



WB2-EMT-BK-4P-PNL (open, unloaded)



WB2-EMT-BK-8P-PNL (open, unloaded)

Description	Dimensions (H x W x D)	Product code	Material ID
Wall-mount building enclosure Accepts PNL-type adapters or splice cassettes			
Accepts (2) adapters or splice cassettes	11.2-in x 14.5-in x 2.08-in	WB2-EMT-BK-2P-PNL	760248905
Accepts (4) adapters or splice cassettes	11.2-in x 14.5-in x 3.88-in	WB2-EMT-BK-4P-PNL	760248906
Accepts (8) adapters or splice cassettes	11.2-in x 14.5-in x 6.25-in	WB2-EMT-BK-8P-PNL	760248907

Fiber adapter panels





Singlemode 12-port

Singlemode 24-port





OM4 multimode 12-port

OM4 multimode 24-port

Ordering information

Description	Port count	Adapter type	Product code	Material ID
Fiber adapter panels; black 1000-type used with SD fiber panels and wall-mount enclosures, shuttered				
OS2 singlemode, blue	12-port	(12) LC/UPC	PNL-BK-012-SFA-LC02-BL-SHUTTERED	760067165
Osz singlemode, bide	24-port	(12) duplex LC/UPC	PNL-BK-024-SFA-LC02-BL-SHUTTERED	760027433
	12-port	(6) duplex LC	PNL-BK-012-MFA-LC02-AQ-SHUTTERED	760067173
OM4 multimode, aqua	24-port	(12) duplex LC	PNL-BK-024-MFA-LC02-AQ-SHUTTERED	760028209

Fiber splicing cassettes



Singlemode 12-port



Singlemode 24-port



OM4 multimode 12-port



OM4 multimode 24-port

Ordering information

Description	Port count	Adapter type	Fiber pigtails	Product code	Material ID	
Fiber splicing cassettes; black With 900 µm fiber pigtails, support fusion splice and are used with SD fiber panels and wall-mount enclosures						
		(C) duploy LC/LIDC	900 µm	PNL-CS-12LCW-PT	760221747	
	12-port	ort (6) duplex LC/UPC	None	PNL-CS-12LCW	760236501	
OS2 singlemode, blue	24-port		900 µm	PNL-CS-24LCW-PT	760221705	
		4-port (12) duplex LC/UPC		PNL-CS-24LCW	760236504	
	12	(C) duralized C	900 µm	PNL-CS-12LCX-PT	760221739	
	12-port	-port (6) duplex LC	None	PNL-CS-12LCX	760236500	
OM4 multimode, aqua	24		900 µm	PNL-CS-24LCX-PT	760221697	
	24-port	24-port (12) duplex LC	(12) auplex LC	None	PNL-CS-24LCX	760236503

Note: 900 µm fiber pigtails support fusion splice

RoloSplice kits

Ordering information

Description	Product code	Material ID
RoloSplice kits		
With 2 mechanical splice trays; 24 splice capacity	RS-2AM-12SF	760039859
With 4 mechanical splice trays; 48 splice capacity	RS-4AM-12SF	760031849
Fiber-optic single fusion splice sleeve, 50 pack	SFS-SLEEVE	9701008/00



RS-2AM-12SF

RS-4AM-12SF

Fiber adapters

Ordering information

Description	Adapter type	Product code	Material ID
Fiber adapters, single pack			
Singlemode, blue	Duplex LC	SFA-LC02-BL	700002215
Multimode, aqua	Duplex LC	MFA-LC02-AQ	108622887

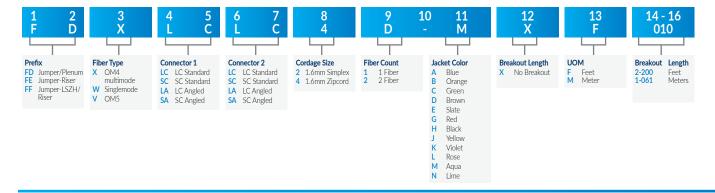




Singlemode LC

Multimode LC

Fiber-optic patch cords Ordering information





Qwik II® field-installable fiber connectors

The CommScope fiber-optic Qwik II[®] connector is a factory pre-polished, field-installable connector that eliminates the need for hand polishing in the field, can be terminated in less than one minute, and re-terminated up to three times. Proven mechanical splice technology ensures precision fiber alignment. A factory pre-cleaved fiber stub and a proprietary index-matching gel combine to offer an immediate low-loss termination.

Ordering information

Description	Cable type	Product code	Material ID	
Qwik II [®] field-installable fiber connectors Single connector				
Singlemode LC/UPC,	0.25/0.9 mm	SFC-LCF-09-8X	760117895	
blue	0.25/0.9/2.0/3.0 mm	SFC-LCF-UNV-8X	760242344	
Multimode OM4 LC,	0.25/0.9 mm	MFC-LCF-09-5X	760117887	
aqua	0.25/0.9/2.0/3.0 mm	MFC-LCF-UNV-5X	760242343	





SFC-LCF-09-8X

MFC-LCF-09-5X





NV-8X

Note: Additional configurations available.

SFC-LCF-UNV-8X

MFC-LCF-UNV-5X

Qwik-Fuse® field-installable fiber connectors

The CommScope Qwik-Fuse[®] connectors are field installable, splice-on, fiber-optic connectors, uniquely designed to provide easy-touse fusion splicing connectivity. Qwik-Fuse connectors enable fast, low-loss and reliable fusion splicing connectivity in the field without concerns about shorts, excess slacks and the need of a splice tray. They provide flexibility for repair and restoration with minimum downtime. Available in LC and SC, Qwik-Fuse connectors are compatible with industry-leading fusion splicers in the market.

Ordering information

Description	Cable type	Product code	Material ID			
Qwik-Fuse® field-installable fiber connector Package of 12 connectors						
Singlemode LC/UPC, blue	0.25/0.9 mm	SFC-LCF-09-8Y-12-PACK	760243372			
Multimode OM4 LC, aqua	0.25/0.9 mm	MFC-LCF-09-5Y-12-PACK	760242874			



Note: Additional configurations available.

Fiber-optic cleaning consumables kit

Ordering information

Description	Product code	Material ID
Fiber-optic cleaning consumables kit Compatible with LC, SC and MPO Includes: (2) Forty cleaning swabs, 1.25 mm (2) Forty cleaning swabs, 2.5 mm Fiber cleaning solution, 3 oz Instruction sheet LC I.B.C. SC I.B.C. MTP/MPO I.B.C Reel cleaner refill (six per pack)	KIT-CLEANING	760053207



Basic termination toolkit

Ordering information

Description	Product code	Material ID	
Basic termination toolkit For field-installable Qwik II connectors, LC Includes: 0.25/0.9 mm cable clamp 2/3 mm cable clamp Fiber cleaning fluid Fiber cleaver Fiber scrap trash can Fiber stripper Instruction sheet Lint-free cotton wipes Marker Scissors Strip length template	TERM-TOOL-KIT-BA QWIK II LC	760242377	

Premium and Qwik-Fuse toolkits

Ordering information

Description	Product code	Material ID
Premium termination tool kit for field-installable Qwik II connectors	TERM-TOOL-KIT-PR	760248225
Qwik-Fuse tool kit for field-installable Qwik-Fuse connectors	QWIK-FUSE Installer	760243403





Premium Termination Tool Kit

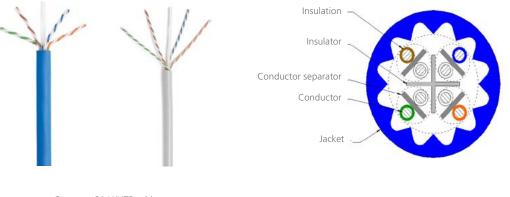
Qwik-Fuse Tool Kit

Uniprise[®] Category 6A U/UTP solutions

From the data center to in-building connectivity, Uniprise Category 6A solutions satisfy a growing list of network applications, including Wi-Fi, power over Ethernet and 10GBASE-T. All Uniprise Category 6A solutions are available in U/UTP and F/UTP options and comply with the relevant EIA/TIA- 568-C standards. Uniprise solution includes a 25-year warranty.

Category 6A U/UTP cables

CommScope's Category 6A UTP copper cables offer high performance for your most critical network functions. They improve bandwidth, throughput and overall network efficiency while supporting the latest 10 Gbps Ethernet standards. And, by suppressing interference from the external pairs, CommScope guarantees crosstalk performance in applications up to 500 MHz.



Category 6A U/UTP cable (CS44P and CS44R Series)

Description	Length	Jacket color	Product code	Material ID
Category 6A U/UTP cables 4-pair, 23 AWG, OD: 0.285 in				
CC44D Series planum	1,000 ft CommPak	Blue	CS44P BLU C6A 4/23 U/UTP CPK 1KFT	UN874035114/10
CS44P Series, plenum		White	CS44P WHT C6A 4/23 U/UTP CPK 1KFT	UN874026814/10
CCAAD Carias and allocum	1,000 ft CommPak	Blue	CS44R BLU C6A 4/23 U/UTP CPK 1KFT	UN884031014/10
CS44R Series, non-plenum		White	CS44R WHT C6A 4/23 U/UTP CPK 1KFT	UN884025514/10

Category 6A UTP patch panels

The CommScope patch panels (DM) are available in a 24- or 48-port, straight, angled or recessed angled configuration. The panel consists of a rack-mounted base unit, rear cable management hardware, and labels for port numbering. Each panel mounts in a 19-inch (483 mm) equipment rack with universal hole spacing.



Ordering information

Description	Panel type	Dimensions (H x W x D)	Product code	Material ID
Category 6A UTP patch panels RJ45 panel, supports T568A/T568B wiring				
24-port,1 RU	Straight	1.75 in x 19.0 in x 4.70 in	UNP-6A-DM-1U-24	760162800
48-port, 2 RU	Straight	3.50 in x 19.0 in x 4.70 in	UNP-6A-DM-2U-48	760162818

Category 6A UTP modular jacks

Ordering information

Description	Color	Product Code	Material ID
Category 6A modular jacks—UNJ Series RJ45, unshielded, T568A/T568B, without dust cover	Black	UNJ10G-BK	760241173
	White	UNJ10G-262	760248228
	Blue	UNJ10G-BL	760241176



Note: Additional colors are available.

Copper patch cords Ordering information

Description	Product code	Material ID
U/UTP Category 6A modular patch cords	UNC10G	UC1AAA2



Category 6A ceiling connector assembly (CCA)

Features

- Perfect solution for connected devices in the ceiling: IP cameras, Wi-Fi access points and in-building wireless systems, LED lighting and sound masking systems
- For installation in difficult-to-access areas
- Provides a high-quality cable interconnection, available as a standalone unit or preterminated to an RJ45 plug
- Can be ordered individually or with a UTP pigtail, in plenum or low smoke zero halogen (LSZH) options
- Category 5e, 6 and 6A UTP can be terminated in the ceiling connector



Description	Color	Product code	Material ID
Category 6A ceiling connector assembly (CCA)	White	CCA-CAT6A-PLENUM-WHITE-N018	760235592
Plenum cord, ceiling connector to RJ45 plug (1.5 ft)	Black	CCA-CAT6A-PLENUM-BLACK-N018	760235591
Ceiling connector assembly (CCA) without cordage			760234921

L Type flush-mount faceplates

L Type faceplates are flush-mount U.S. standard plastic faceplates. These plates will accept all CommScope UTP/FTP modular jacks for voice and data, as well as most fiber-optic adapters and couplers. Mounting screws, label covers and label cards are included.

Ordering information

Description	Ports	Color	Product code	Material ID
L Type flush-mount faceplates Used with modular jacks	2 ports	White	M12L-262	108168469



Note: Additional colors and port configurations are available.

Stainless steel faceplate

Ordering information

Description	Color	Product code	Material ID
Stainless steel faceplate 1-Port, single gang	Stainless steel	M11SP	760100867

Note: Additional colors are available.

Dust covers

The M20AP covers are dual-purpose blank dust covers designed for use with the modular outlets and modular faceplate kits (except for the shuttered clips and Benelux faceplates). When the M20AP is used as a dust cover, it is inserted over the outlet opening and will protect the jack wires from dust. The M20AP can also be used with modular faceplates as a blank cover for empty jack openings that are not populated with modular outlets. The M20AP are packaged 100 to a bag with five bags in a box.

Ordering information

Description	Color	Product code	Material ID
M20 dust covers For faceplates and jacks	White	M20AP-262	107067928



Note: Additional colors are available.

Powered fiber solutions

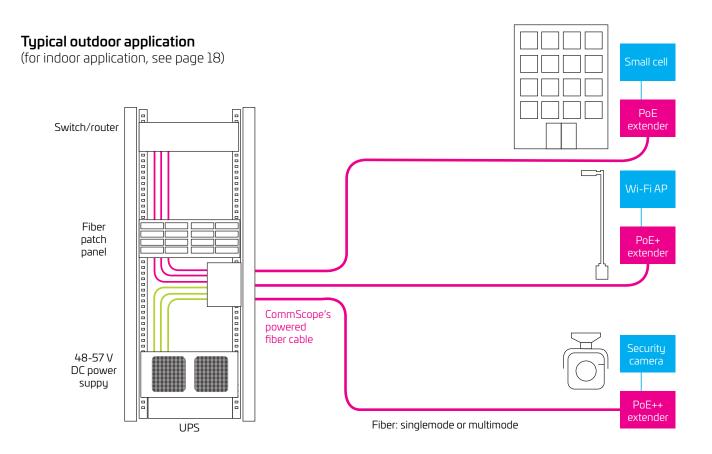
The powered fiber solution combines high-performance, low-latency fiber-optic data connectivity with a copper low-voltage dc power connection. This enables the connection of any number of powered remote devices without the need for new conduit, bulky extra cable runs or expensive electricians. With the powered fiber cable solution, your network gains access to a vast and growing ecosystem of applications, including:

- Optical LAN
- Emergency phones
- HD security cameras
- Digital signage

Application overview

- Complete power and data solution platform for IP devices
- Low-voltage power provided by centralized source/backup UPS
- One power supply can drive up to 32 devices simultaneously
- Extends PoE distance to 2.6 kilometers (at 15 watts)

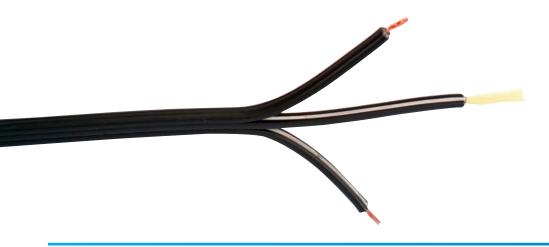
- Wi-Fi access points
- Small cells
- Or virtually any low-voltage dc powered device
- · Low-cost installation and setup
- Supports active and passive fiber-to-the-room solutions
- Ideally suited to campus environments, airports, parking areas, stadiums, small cell base stations, fiber to the room and more



Powered fiber cable system

- \cdot Outdoor and riser/LSZH, indoor/outdoor rated versions
- · SELV and NEC Class 2 compliant
- · Quick-peel style cable
- · Utilizes globally existing, proven and inexpensive FTTH-style flat cable hardware

Part number/ MID	Description
PFC-S02L12	Powered fiber cable, indoor/outdoor, OS2, 2 fibers, 2 x 12 AWG conductors
PFC-S02L16	Powered fiber cable, indoor/outdoor, OS2, 2 fibers, 2 x 16 AWG conductors
PFC-S02O12	Powered fiber cable, outdoor, OS2, 2 fibers, 2 x 12 AWG conductors
PFC-S02O16	Powered fiber cable, outdoor, OS2, 2 fibers, 2 x 16 AWG conductors
PFC-S04L12	Powered fiber cable, indoor/outdoor, OS2, 4 fibers, 2 x 12 AWG conductors
PFC-S04L16	Powered fiber cable, indoor/outdoor, OS2, 4 fibers, 2 x 16 AWG conductors
PFC-S04O12	Powered fiber cable, outdoor, OS2, 4 fibers, 2 x 12 AWG conductors
PFC-S04O16	Powered fiber cable, outdoor, OS2, 4 fibers, 2 x 16 AWG conductors
PFC-S12L12	Powered fiber cable, indoor/outdoor, OS2, 12 fibers, 2 x 12 AWG conductors
PFC-S12L16	Powered fiber cable, indoor/outdoor, OS2, 2 fibers, 12 x 16 AWG conductors
PFC-S12O12	Powered fiber cable, outdoor, OS2, 12 fibers, 2 x 12 AWG conductors
PFC-S12O16	Powered fiber cable, outdoor, OS2, 12 fibers, 2 x 16 AWG conductors
PFC-302L12	Powered fiber cable, indoor/outdoor, OM3, 2 fibers, 2 x 12 AWG conductors
PFC-302L16	Powered fiber cable, indoor/outdoor, OM3, 2 fibers, 2 x 16 AWG conductors
PFC-302012	Powered fiber cable, outdoor, OM3, 2 fibers, 2 x 12 AWG conductors
PFC-302016	Powered fiber cable, outdoor, OM3, 2 fibers, 2 x 16 AWG conductors
PFC-304L12	Powered fiber cable, indoor/outdoor, OM3, 4 fibers, 2 x 12 AWG conductors
PFC-304L16	Powered fiber cable, indoor/outdoor, OM3, 4 fibers, 2 x 16 AWG conductors
PFC-304012	Powered fiber cable, outdoor, OM3, 4 fibers, 2 x 12 AWG conductors
PFC-304O16	Powered fiber cable, outdoor, OM3, 4 fibers, 2 x 16 AWG conductors



Plenum round powered fiber cable

- · Hybrid copper and fiber in one cable simplifies installation—saving material, labor costs, space and time
- · Plenum safety listings to support indoor plenum spaces in hospitality, education, and campus installs within the building
- · Round design is installer friendly, and able to easily navigate pathways and tight spaces in the building
- $\cdot~$ Offered in 12, 16 and 20 AWG options to support specific distance and budget demands
- · Both singlemode and multimode glass types are available; OS2, OM3 and OM4 to tailor the system to meet various customer applications









P-002-DS-HY-5L or 5K-F29AQ-2x12AWG

P-002-DS-HY-8W-F29YL-2x12AWG

P-004-DS-HY-5L or 5K-F29AQ-4x12AWG

P-004-DS-HY-8W-F29Y-4x12AWG

MID	Part number	Description
12 AWG		
760250282	P-002-DS-HY-8W-F29YL/2X12AWG	Powered fiber cable, plenum indoor, OS2, 2 fibers, 2 x 12 AWG conductors
760250283	P-002-DS-HY-5L-F29AQ/2X12AWG	Powered fiber cable, plenum indoor, OM3, 2 fibers, 2 x 12 AWG conductors
760250284	P-002-DS-HY-5K-F29AQ/2X12AWG	Powered fiber cable, plenum indoor, OM4, 2 fibers, 2 x 12 AWG conductors
760250285	P-004-DS-HY-8W-F29YL/2X12AWG	Powered fiber cable, plenum indoor, OS2, 4 fibers, 2 x 12 AWG conductors
760250286	P-004-DS-HY-5L-F29AQ/2X12AWG	Powered fiber cable, plenum indoor, OM3, 4 fibers, 2 x 12 AWG conductors
760250287	P-004-DS-HY-5K-F29AQ/2X12AWG	Powered fiber cable, plenum indoor, OM4, 4 fibers, 2 x 12 AWG conductors
760250288	P-002-DS-HY-8W-F29YL/4X12AWG	Powered fiber cable, plenum indoor, OS2, 2 fibers, 4 x 12 AWG conductors
760250289	P-002-DS-HY-5L-F29AQ/4X12AWG	Powered fiber cable, plenum indoor, OM3, 2 fibers, 4 x 12 AWG conductors
760250290	P-002-DS-HY-5K-F29AQ/4X12AWG	Powered fiber cable, plenum indoor, OM4, 2 fibers, 4 x 12 AWG conductors
760250291	P-004-DS-HY-8W-F29YL/4X12AWG	Powered fiber cable, plenum indoor, OS2, 4 fibers, 4 x 12 AWG conductors
760250292	P-004-DS-HY-5L-F29AQ/4X12AWG	Powered fiber cable, plenum indoor, OM3, 4 fibers, 4 x 12 AWG conductors
760250293	P-004-DS-HY-5K-F29AQ/4X12AWG	Powered fiber cable, plenum indoor, OM4, 4 fibers, 4 x 12 AWG conductors
16 AWG		
760250294	P-002-DS-HY-8W-F18YL/2X16AWG	Powered fiber cable, plenum indoor, OS2, 2 fibers, 2 x 16 AWG conductors
760250295	P-002-DS-HY-5L-F18AQ/2X16AWG	Powered fiber cable, plenum indoor, OM3, 2 fibers, 2 x 16 AWG conductors
760250296	P-002-DS-HY-5K-F18AQ/2X16AWG	Powered fiber cable, plenum indoor, OM4, 2 fibers, 2 x 16 AWG conductors
760250297	P-004-DS-HY-8W-F18YL/2X16AWG	Powered fiber cable, plenum indoor, OS2, 4 fibers, 2 x 16 AWG conductors
760250298	P-004-DS-HY-5L-F18AQ/2X16AWG	Powered fiber cable, plenum indoor, OM3, 4 fibers, 2 x 16 AWG conductors
760250299	P-004-DS-HY-5K-F18AQ/2X16AWG	Powered fiber cable, plenum indoor, OM4, 4 fibers, 2 x 16 AWG conductors
760250300	P-002-DS-HY-8W-F18YL/4X16AWG	Powered fiber cable, plenum indoor, OS2, 2 fibers, 4 x 16 AWG conductors
760250301	P-002-DS-HY-5L-F18AQ/4X16AWG	Powered fiber cable, plenum indoor, OM3, 2 fibers, 4 x 16 AWG conductors
760250302	P-002-DS-HY-5K-F18AQ/4X16AWG	Powered fiber cable, plenum indoor, OM4, 2 fibers, 4 x 16 AWG conductors
760250303	P-004-DS-HY-8W-F18YL/4X16AWG	Powered fiber cable, plenum indoor, OS2, 4 fibers, 4 x 16 AWG conductors
760250304	P-004-DS-HY-5L-F18AQ/4X16AWG	Powered fiber cable, plenum indoor, OM3, 4 fibers, 4 x 16 AWG conductors
760250305	P-004-DS-HY-5K-F18AQ/4X16AWG	Powered fiber cable, plenum indoor, OM4, 4 fibers, 4 x 16 AWG conductors

Plenum round PFC cable continued

MID	Part number	Description			
20 AWG	20 AWG				
760250306	P-002-DS-HY-8W-F16YL/2X20AWG	Powered fiber cable, plenum indoor, OS2, 2 fibers, 2 x 20 AWG conductors			
760250307	P-002-DS-HY-5L-F16AQ/2X20AWG	Powered fiber cable, plenum indoor, OM3, 2 fibers, 2 x 20 AWG conductors			
760250308	P-002-DS-HY-5K-F16AQ/2X20AWG	Powered fiber cable, plenum indoor, OM4, 2 fibers, 2 x 20 AWG conductors			
760250309	P-004-DS-HY-8W-F16YL/2X20AWG	Powered fiber cable, plenum indoor, OS2, 4 fibers, 2 x 20 AWG conductors			
760250310	P-004-DS-HY-5L-F16AQ/2X20AWG	Powered fiber cable, plenum indoor, OM3, 4 fibers, 2 x 20 AWG conductors			
760250311	P-004-DS-HY-5K-F16AQ/2X20AWG	Powered fiber cable, plenum indoor, OM4, 4 fibers, 2 x 20 AWG conductors			
760250312	P-002-DS-HY-8W-F16YL/4X20AWG	Powered fiber cable, plenum indoor, OS2, 2 fibers, 4 x 20 AWG conductors			
760250313	P-002-DS-HY-5L-F16AQ/4X20AWG	Powered fiber cable, plenum indoor, OM3, 2 fibers, 4 x 20 AWG conductors			
760250314	P-002-DS-HY-5K-F16AQ/4X20AWG	Powered fiber cable, plenum indoor, OM4, 2 fibers, 4 x 20 AWG conductors			
760250315	P-004-DS-HY-8W-F16YL/4X20AWG	Powered fiber cable, plenum indoor, OS2, 4 fibers, 4 x 20 AWG conductors			
760250316	P-004-DS-HY-5L-F16AQ/4X20AWG	Powered fiber cable, plenum indoor, OM3, 4 fibers, 4 x 20 AWG conductors			
760250317	P-004-DS-HY-5K-F16AQ/4X20AWG	Powered fiber cable, plenum indoor, OM4, 4 fibers, 4 x 20 AWG conductors			

Surface-mount boxes

- · Supports structured cabling labeling and administration
- · Protects your powered fiber cable and connections
- Provides a clean end point to terminate new indoor plenum powered fiber cables
- · Supports multigig Wi-Fi access points
- · Supports new and existing powered fiber cables

MID	Description		
760248944	Kit, SMB, 1 fiber port, 1 power port, beige		
760248943	Kit, SMB, 1 fiber port, 1 power port, white		
760248942	Kit, SMB, 1 fiber port, 1 power port, black		
760249095	Kit, SMB, 2 fiber ports, 2 power ports, beige		
760249094	Kit, SMB 2, fiber ports, 2 power ports, white		
760249093	Kit, SMB, 2 fiber ports, 2 power ports, black		





1- and 2-port PoE extenders

- IP68 sealing—Enclosures are designed for outdoor installations with protection from moisture and the environment
- \cdot Automatically corrects for distance voltage drop in the hybrid cable
- · Integrated electrical protection
- 60 W 2-port variant enables two PoE or PoE+ devices to be connected via one hybrid cable.
- 60 W single-port variation supports 802.3bt, Class 6 power levels.
 It can be equipped with SPF+ transceivers, and deliver 5 Gbps Ethernet over the copper port.

Part number/MID	Description
PFU-P-C-O-060-02	60 W, 2 port PoE extender*
PFU-P-E-O-060-01	60 W, 1 port 5 Gbps PoE extender

*The 60 W, 2 port PoE extender provides a maximum of 30 W on each port.

Power extenders/fiber pass-through

- Provide the same power management and electrical protection benefits of the PoE extenders
- · Designed to handle devices that require direct fiber input and dc power
- · IP68 sealing—Enclosures are designed for outdoor installations with protection from moisture and the environment

Part number/MID	Description
PFU-48-C-O-060-01	Power extender fiber pass-through 48 VDC
PFU-12-C-O-060-01	Power extender fiber pass-through 12 VDC





PFU-48-C-O-060-01

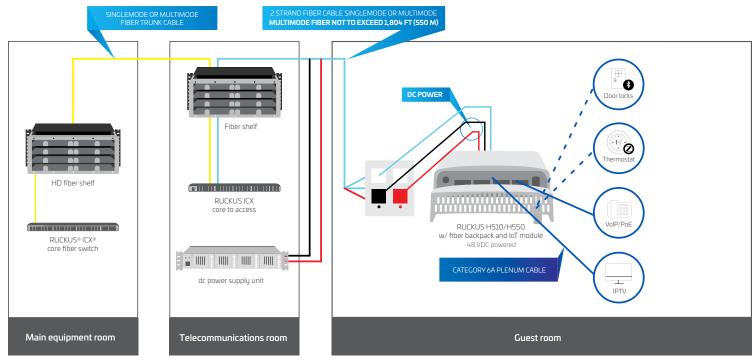
Power supplies

57 VDC power supply for use with powered fiber cable system

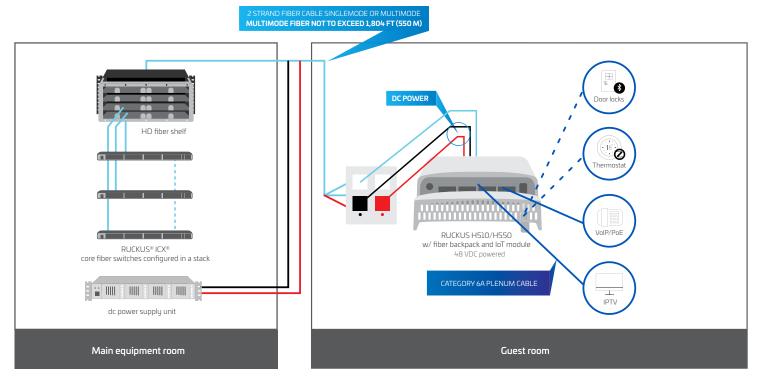
Part number/MID	Description		
PFP-PX-S1	Power Express Distribution shelf with alarm module		
PFP-PX-8M	Power Express Distribution module supports max. 8 devices		
PFP-PX-SF	Power Express blank slot panel		
PFP-SPS-S1	SPS rectifier power distribution shelf		
PFP-SPS-1600M	1600 W SPS power rectifier module		
PFP-SPS-C1	SPS rectifier controller display		
PFP-SPS-SF	SPS rectifier blank slot panel		



CommScope powered fiber solution



Powered fiber to the room—mid span power distribution with two-tier network architecture





Undercarpet cabling solutions

The CommScope undercarpet cabling system is a low-profile, flexible system that makes even the most complex cabling job simple, economical and invisible. The cabling to provide power, voice and data services to your equipment can be handled with ease.

Conference room kits

- Provides services for power and communications (four ports of communications and two duplex power receptacles)
- Kits do not include carpet tiles
- · Reduces cost of installation; no core drilling required
- Yields a more aesthetically pleasing and cleaner installation than power poles
- No tripping over extension cords, unsightly "speed bumps" or duct-taped cables
- More flexible than any other method of service distribution
- Provides one circuit of power to two duplex receptacles in a compact, durable floor-mounted outlet

- Provides four ports of any combination of voice or data on Category 5e or Category 6 cable to RJ45 modular jacks in a compact, durable floor-mounted outlet
- Transition boxes can be easily retrofitted in place of existing power and communications wall outlets



Description	TIA/EIA category	Figure	Material ID
	Category 5e	А	1479050-1
Undercarpet conference room kit	Category 6	В	1933466-1
Kit contents	Component*	1479050-1	1933466-1
Category 6 undercarpet communications cable	1499539-1	-	100 ft
3-conductor, 12 AWG, standard ground, undercarpet power cable	3-553079-3	50 ft	50 ft
Flush wall frame communications transition box	553739-2	1	1
Flush wall frame communications transition box cover	553095-1	1	1
Universal communications transition block, Cat 5e and 6	2111682-1	1	1
4-port low-profile communications floor fitting	555287-1	1	1
Modular jack kit, Category 6	1933377-1	-	4
Flush wall power transition box	554805-1	1	1
Flush wall power transition box cover	1-553292-3	1	1
Transition block for power	554862-1	1	1
Top shield	553536-3	50 ft	50 ft
Floor preparation	554123-3	50 ft	50 ft
Spray adhesive	6-553453-1	1 can	1 can
Hold down tape	553481-1	1 roll	1 roll
Dual duplex receptacle DCR kit	554192-1	1	1

* Equivalent components may be used as a substitute.

NOTE: Custom pre-packaged kits available for a "store-in-a-box" concept for retail applications

PON infrastructure

Passive optical networking (PON) was originally developed as a way for service providers to maximize their existing fiber utilities by using optical splitters to split the light beam on a single fiber strand into two or more beams.

PON works on the premise of splitting the optical signal between the optical line terminal (OLT) and optical network terminal (ONT) 16 or 32 times with a singlemode cable. While PON provides benefits to service providers who often have limited fiber utilities available, it's important to recognize that PON is a shared network that may not provide the flexibility and robustness required for today's high-performance hospitality networks. Installing a single strand of fiber to the guest room sounds appealing, but this limits the ability to migrate to other architectures and technologies in the future.

CommScope offers a full suite of fiber products to support your enterprise PON network. Technologies including powered fiber cables, preterminated fiber assemblies, fiber connecting hardware, and optical splitters enable a flexible, future-ready infrastructure that can carry your network through the next 20 years and three to five technology refreshes.

CommScope recommends installing two strands of fiber and two stands of copper, utilized for dc power to each device to support network growth, and locating splitters near the PON OLT, which is likely in your main equipment room. This approach fully leverages PON's consolidated aggregation benefits while supporting the future additions of more bandwidth and new technologies. However, there are nuances customers need to be aware of when choosing fiber to the room with PON instead of fiber to the room with active Ethernet.

Active Ethernet

Active Ethernet takes advantage of the presence of both fiber and copper in the Powered Fiber solution to provide dedicated bandwidth to the room and a common management plane for all active components (wired switching/routing and Wi-Fi). Active Ethernet leads the industry in adopting new technologies and innovations with faster time to market and typically lower deployment costs and an available pool of skilled technicians.

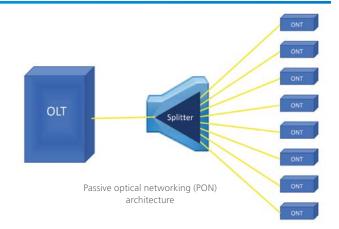
CommScope offers a full suite of fiber/structured cabling products to support your Enterprise AE network. Technologies including powered fiber cables, fiber connecting hardware, Category 6/6A cables, network switches, uplink/stacking optics, and patching accessories enable a flexible, future-ready infrastructure and enterprise network.

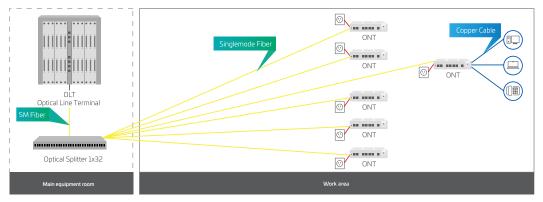
CommScope recommends installing a powered fiber system that would include both two strands of copper utilized for dc power and two strands of singlemode fiber. The copper conductors terminate in the dc power supply system while the fiber is terminated to a patch panel. That would provide the most flexibility for both current and future networking solutions. ONTs and edge switches can be powered through a dc power plant located in the intermediate distribution frame/telecommunications room (IDF/TR) closets. This crucial detail will also help meet E-9-1-1 requirements at the property around battery backup requirements for run times after primary power loss in the building.

An Active Ethernet design is outside the scope of this document; however, refer to the CommScope/RUCKUS hospitality design guide for AE and Wi-Fi design recommendations.

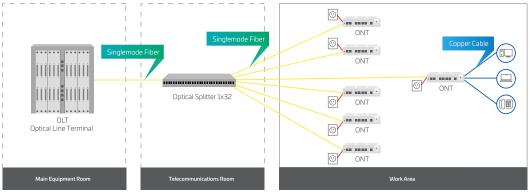
PON architecture design

Infrastructure architectures to support passive optical networking PON include central split designs and mid-span split designs. You can also support PON with powered fiber—providing remote powering of your ONTs.

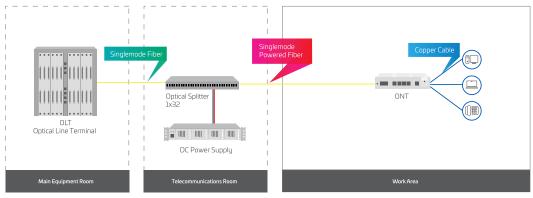




Passive optical network architecture—central split



Passive optical network architecture—mid span split





PON infrastructure solutions

Fiber adapter panels

12-Port SC/APC



Ordering information

Description	Port count	Adapter type	Product code	Material ID
Fiber adapter panels; singlemode	12 mont	SC/APC	PNL-BK-012-AFA-SC02-GR	760117267
1000-type used with EPX fiber panels	12-port	LC/APC	PNL-BK-012-AFA-LC12-GR	760147637



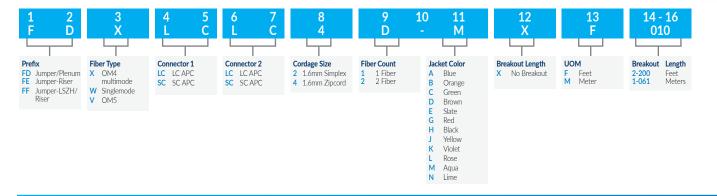
Fiber adapters

Ordering Information

Description	Product code	Material ID
TeraSPEED® LC-APC duplex low-profile adapter, green, single pack	AFA-LC02-GR/LP	760115246
SC Simplex/LC duplex low-profile adapter mounting module/collar assembly, ivory	UNFA-EMM-SC01/LC02-IV-PACK-25	760156026
SC Simplex/LC duplex low-profile adapter mounting module/collar assembly, white	UNFA-EMM-SC01/LC02-WH-PACK-25	760156034
SC Simplex/LC duplex low-profile adapter mounting module/collar assembly, gray	UNFA-EMM-SC01/LC02-GY-PACK-25	760156018
SC Simplex/LC duplex low-profile adapter mounting module/collar assembly, black	UNFA-EMM-SC01/LC02-BK-PACK-25	760156000



Fiber-optic patch cords



1RU optical splitters

1RU splitter panel with LC/APC



Ordering information

Description	Material ID
1RU panel, 1x64 split ratio, 1 splitter, LC/APC connectors	1RU-SP1164001
1RU panel, 2x32 split ratio, 2 splitters, LC/APC connectors	1RU-SP1232002
1RU panel, 1x32 split ratio, 2 splitters, LC/APC connectors	1RU-SP1132002
1RU panel, 1x32 split ratio, 1 splitter, LC/APC connectors	1RU-SP1132001

1RU splitter panel with LC/UPC

Ordering information

Description	Material ID
1RU panel, 1x64 split ratio, 1 splitter, LC/UPC connectors	1RU-SP2164001
1RU panel, 2x32 split ratio, 2 splitters, LC/UPC connectors	1RU-SP2232002
1RU panel, 1x32 split ratio, 2 splitters, LC/UPC connectors	1RU-SP2132002
1RU panel, 1x32 split ratio, 1 splitter, LC/UPC connectors	1RU-SP2132001

1RU splitter panel with SC/APC

Ordering information

Description	Material ID
1RU panel, 1X32 split ratio, 1 splitter, SC/APC connectors	1RU-SP3132001
1RU panel, 2X32 split ratio, 1 splitter, SC/APC connectors	1RU-SP3232001

1RU splitter panel with SC/UPC

Description	Material ID
1RU panel, 1X32 split ratio, 1 splitter, SC/UPC connectors	1RU-SP4132001
1RU panel, 2X32 split ratio, 1 splitter, SC/UPC connectors	1RU-SP4232001

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