

SYSTIMAX®
COMMSCOPE

FiberREACH™

**Empower potential
at the edge**





The future of your network is brightest at the edge

From the core to the edge, you are adding more connected devices and new smart building services to your network all the time. The opportunities and efficiencies they give you speak for themselves—but, as they spread to more locations both indoors and out, you're probably feeling the pain of not having enough network access where you need it.

You need a way to deliver higher bandwidth and greater wattage to reach all those devices. CommScope® helps you solve these challenges with our range of FiberREACH™ solutions, designed for just the kind of high-power-demand devices that drive today's smart networks in healthcare, hospitality, education, transportation, government, and other environments.

With CommScope FiberREACH solutions, you are able to power more advanced devices closer to the network edge, both indoors and out—helping your facilities run smoothly and efficiently.

High-capacity data. High-wattage power.

CommScope FiberREACH solutions enable your expanding network

Connected devices are now everywhere in buildings and across campuses—devices like small cells, Wi-Fi® access points, IP cameras, building access and inventory controls, and many more.

All these new applications improve end-user experience, operational efficiency, and property-wide safety and security.

But they also present a new and growing challenge: how to get high-bandwidth data and power connectivity to every device in every location, indoors and out, with the low latency needed to maximize edge network architecture and deliver high performance.

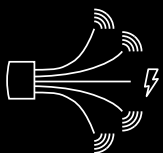
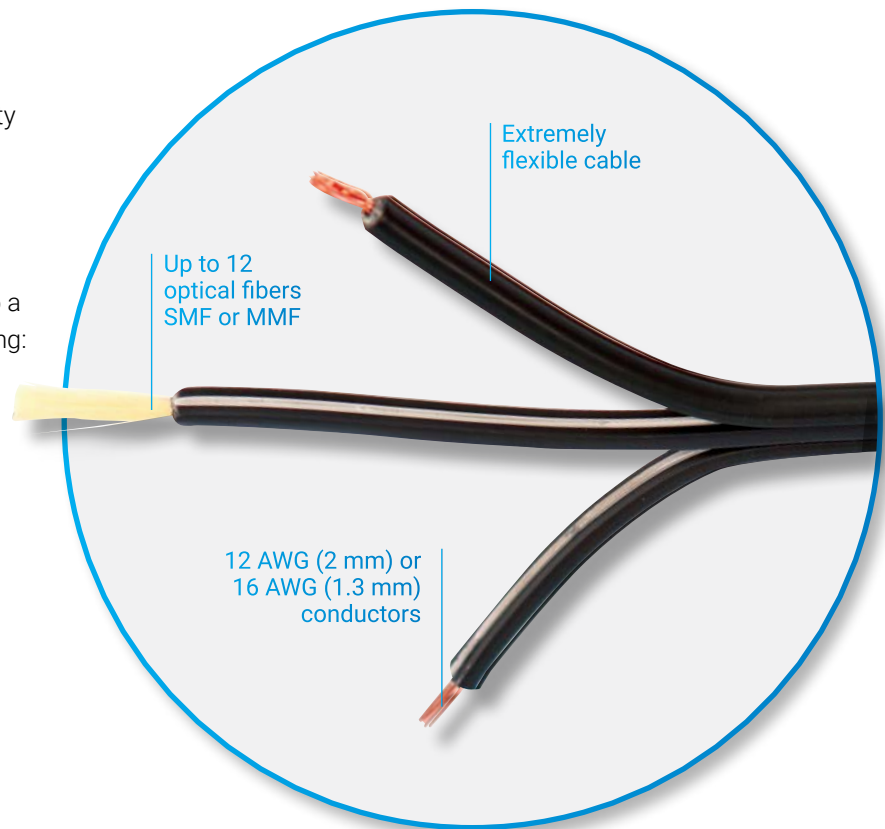
CommScope FiberREACH solutions make it easy to overcome these challenges in a simple, straightforward way, with options designed for weatherized outdoor deployments or plenum-rated indoor installations.



One cable run, infinite possibilities

CommScope FiberREACH solutions combine high-performance, low-latency fiber-optic data connectivity with a low-voltage copper direct current (DC) power connection. This enables the connection of powered remote devices without the need for new conduit, bulky extra cable runs, or certified electricians. With FiberREACH solutions, your network gains access to a vast and growing ecosystem of applications, including:

- Power over Ethernet (PoE) distance extension
- Optical LAN
- Emergency phones
- HD security cameras
- Digital signage
- Wi-Fi access points
- Small cells
- Or virtually any low-voltage DC-powered device



PRACTICAL PERFORMANCE

CommScope's powered fiber solution combines singlemode or multimode fibers with electrical conductors in a single hybrid cable. This innovative solution delivers reliable fiber-optic signals to and from remote devices—along with low-voltage DC, which simultaneously powers them.



EASY DEPLOYMENTS

CommScope has merged flexible copper conductors with our high-performance, bend-tolerant fiber to make the cabling pliable and effortless to pull. Despite combining two cables into one, the powered system easily fits in standard conduit.



SIMPLE INSTALLATIONS

Used as part of a low-voltage SELV/NEC Class 2 circuit, CommScope's powered fiber solution simplifies the electrical design through use of the Powered Fiber Calculator. Installations will achieve cost reductions by reducing the need for separate power distribution circuits.

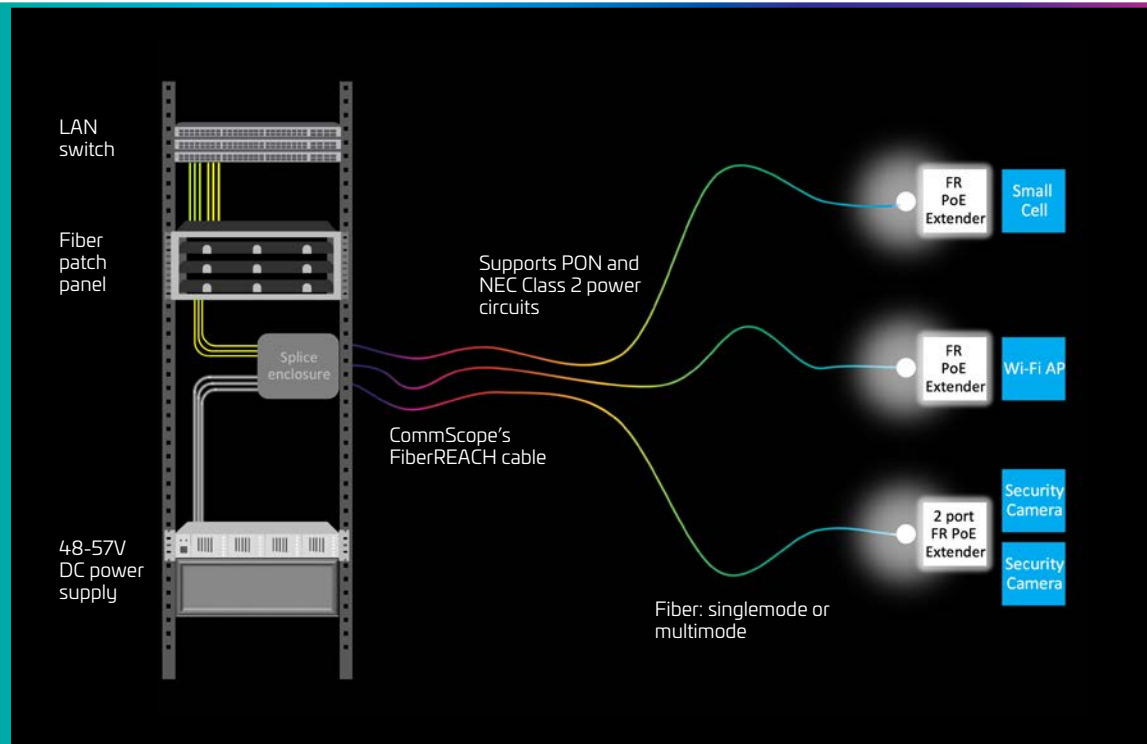
CommScope's powered fiber also reduces material costs for separate fiber and electrical cables, and it slashes conduit costs in half because the solution can be installed anywhere Category cables are installed.

Application overview

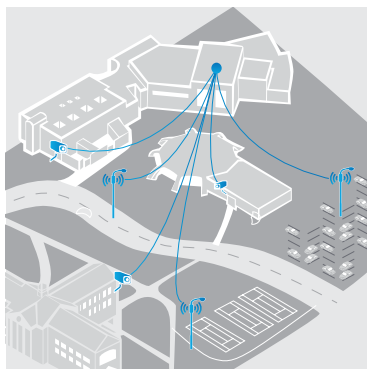
- Extends PoE distance:
 - Up to 4,600 m (7 W)
 - Up to 3,000 m (15 W)
 - Up to 1,800 m (30 W)
 - Up to 880 m (60 W)
 - Up to 350 m (90 W)
- Complete power and data solution platform for IP devices
- Low-voltage power provided by centralized source/backup UPS
- One power supply can drive up to 32 devices simultaneously
- Low-cost installation and setup
- Supports passive optical network (PON) applications
- Ideally suited to campus environments, airports, parking areas, stadiums, small cell base stations, fiber to the room and more

Not just 90 W up to 350 m, it's a new concept for PoE extenders

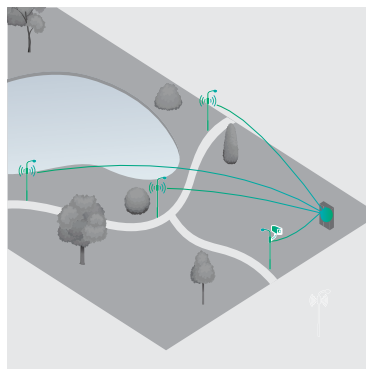
In developing the FiberREACH platform, SYSTIMAX engineers also improved the traditional PoE extender, especially for the highest current wattage (90 W) applications. The patented concept integrates voltage regulation, Ethernet, and a splice tray in a single enclosure designed for use with hybrid cable. It's ideal for emerging applications such as multiple lens and IR cameras, plus AI and IoT network edge architectures.



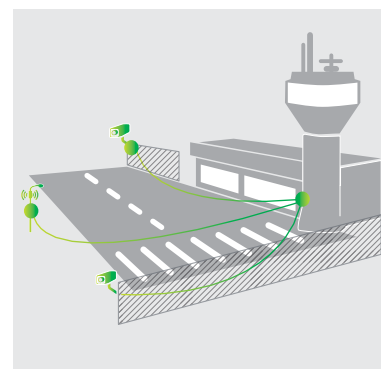
APPLICATION EXAMPLES



CAMPUS ENVIRONMENTS



SMART CITIES

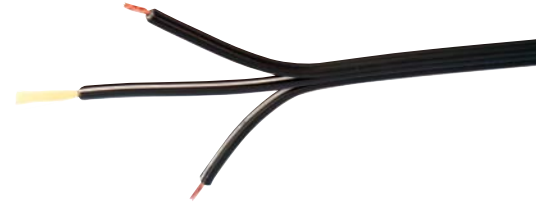


AIRPORTS

FiberREACH SYSTEM

- Outdoor and riser/LSZH, indoor/outdoor rated versions
- Indoor/outdoor cable to be used in indoor or dry outdoor environments. Indoor/outdoor cables cannot be used below grade or otherwise exposed to moisture or liquids
- SELV and NEC Class 2 compliant
- Fast “banana peel” style cable access
- Utilizes globally existing, proven and inexpensive FTTH-style flat cable hardware

MID/Part Number	Description
PFC-S02L12	FiberREACH, Indoor/Outdoor, OS2, 2 Fibers, 2 x 12 AWG Conductors
PFC-S02L16	FiberREACH, Indoor/Outdoor, OS2, 2 Fibers, 2 x 16 AWG Conductors
PFC-S02O12	FiberREACH, Outdoor, OS2, 2 Fibers, 2 x 12 AWG Conductors
PFC-S02O16	FiberREACH, Outdoor, OS2, 2 Fibers, 2 x 16 AWG Conductors
PFC-S04L12	FiberREACH, Indoor/Outdoor, OS2, 4 Fibers, 2 x 12 AWG Conductors
PFC-S04L16	FiberREACH, Indoor/Outdoor, OS2, 4 Fibers, 2 x 16 AWG Conductors
PFC-S04O12	FiberREACH, Outdoor, OS2, 4 Fibers, 2 x 12 AWG Conductors
PFC-S04O16	FiberREACH, Outdoor, OS2, 4 Fibers, 2 x 16 AWG Conductors
PFC-S12L12	FiberREACH, Indoor/Outdoor, OS2, 12 Fibers, 2 x 12 AWG Conductors
PFC-S12L16	FiberREACH, Indoor/Outdoor, OS2, 12 Fibers, 2 x 16 AWG Conductors
PFC-S12O12	FiberREACH, Outdoor, OS2, 12 Fibers, 2 x 12 AWG Conductors
PFC-S12O16	FiberREACH, Outdoor, OS2, 12 Fibers, 2 x 16 AWG Conductors
PFC-302L12	FiberREACH, Indoor/Outdoor, OM3, 2 Fibers, 2 x 12 AWG Conductors
PFC-302L16	FiberREACH, Indoor/Outdoor, OM3, 2 Fibers, 2 x 16 AWG Conductors
PFC-302O12	FiberREACH, Outdoor, OM3, 2 Fibers, 2 x 12 AWG Conductors
PFC-302O16	FiberREACH, Outdoor, OM3, 2 Fibers, 2 x 16 AWG Conductors
PFC-304L12	FiberREACH, Indoor/Outdoor, OM3, 4 Fibers, 2 x 12 AWG Conductors
PFC-304L16	FiberREACH, Indoor/Outdoor, OM3, 4 Fibers, 2 x 16 AWG Conductors
PFC-304O12	FiberREACH, Outdoor, OM3, 4 Fibers, 2 x 12 AWG Conductors
PFC-304O16	FiberREACH, Outdoor, OM3, 4 Fibers, 2 x 16 AWG Conductors



1- AND 2-PORT POE EXTENDERS

- IP68 sealing—Enclosures are designed for outdoor installations with protection from moisture and the environment
- PoE extenders use SFP transceivers and provide fiber termination with integrated splice tray
- Automatically corrects for distance voltage drop in the hybrid cable
- Integrated electrical protection
- 60 W two-port variant enables two PoE or PoE+ devices to be connected via one hybrid cable
- 60 W single-port variant supports up to 60 W on a single port
- 90 W two-port variant enables two 802.3bt ports to share 90 W between ports; allows Spanning Tree and link aggregation compatibility

MID/Part Number	Description
PFU-P-C-O-060-02	60 W 2 Port PoE Extender*
PFU-P-C-O-060-01	60 W 1 Port PoE Extender
PFU-P-C-O-090-02	2 port PoE Extender, 90 W total**

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

** The PFU-P-C-O-090-02 can supply a shared total of 90 W between the 2 ports. For example, either port can do 0-90 W 802.3bt but the total combined output power is limited to 90 W.



PFU-P-C-O-060-02

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

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



PFU-48-C-O-060-01

POWER SUPPLIES

- 57 VDC power supply for use with FiberREACH system

MID/Part Number	Description
PFP-PX-S2	Power Express Combo Shelf
PFP-PX-A1	Power Express Alarm Card
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



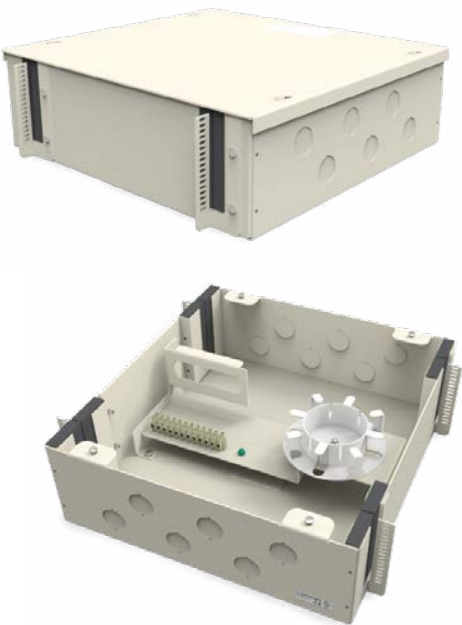
- SURFACE-MOUNT BOXES
- Supports structured cabling labeling and administration
- Protects your FiberREACH cable and connections
- Provides a clean end point to terminate new indoor plenum FiberREACH cables
- Supports multigig Wi-Fi access points
- Supports new and existing FiberREACH cables

MID/Part Number	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



PLENUM FIBERREACH TRANSITION BOX

- Provides easy and secure transition point for indoor to outdoor FiberREACH cables
- Termination point for permanent link FiberREACH cables for future end-device installations
- Plenum-rated enclosure
- Dimensions: 4.37 in (111 mm) x 14.18 in (360 mm) x 14.57 in (370 mm)
- Interface features, inside: (6) fiber LC duplex, (6) two-wire terminals
- Interface capacity: six channels
- Surface mounted
- Input power: 100 W per channel (NEC Class 2)
- Input voltage: 30 VAC | 60 VDC per channel
- Safety standards: UL2043 | UL1863 | UL62360 | CE
- Environmental space: Indoor | Plenum
- Weight: 14 lbs (6.35 kg)
- Package quantity: 1



MID/Part Number	Description
760250853	PFC Transition Box, Plenum rated, cool gray

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YOUR NETWORK
YOUR FUTURE

systemax.com
Visit our website or contact your local CommScope representative for more information.

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