Hot Products Guide

Fiber Solutions

COMMSCOPE®

Contents

Your campus network can do more

Data center networks

- Fiber entrance
- Propel fiber connectivity and fiber panels
- Fiber pigtails
- Fiber patch cords
- Indoor/outdoor fiber cable

Enterprise buildings

- Fiber pigtails
- Fiber patch cords
- EPX Fiber Panels
- Outside plant fiber cable

Campus environments

- Fiber connectivity
- Outside plant fiber cable
- Propel and EXP fiber panels
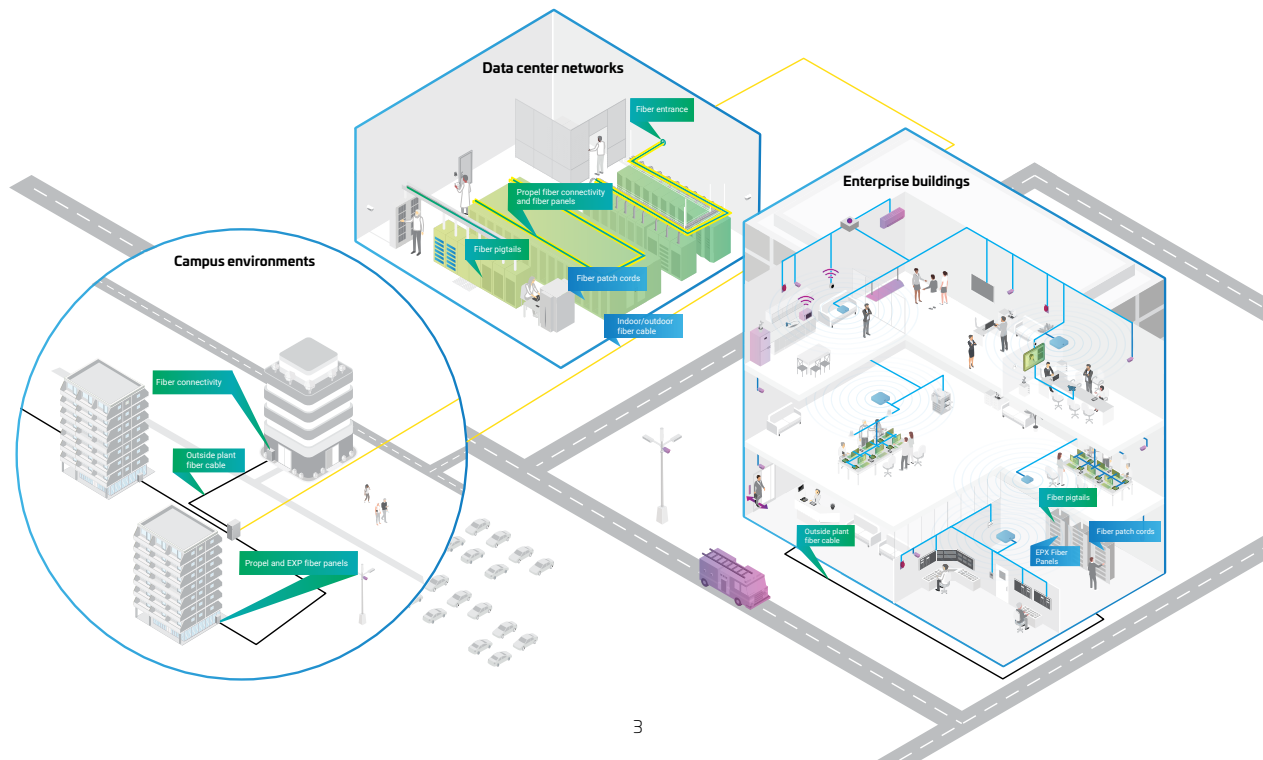
Fiber cables

Includes indoor, outdoor, and indoor/outdoor, as well as rollable ribbon cables, available in a wide variety of configurations, fiber types and counts. Every solution is designed and tested to exceed the industry performance standards, speed deployment and extend the life of your infrastructure.

Use cases

Versatile, high-performance fiber cables address nearly all building, campus and data center use cases, such as local area networking, data center connectivity and high-speed internet; robust bend-insensitive design enables deployment in tight spaces.

Features

· Meets or exceeds all industry standards
· Bend-insensitive design
· Plenum- and riser-rated
· WebTrak® factory performance verification
· SYSTIMAX® 25-Year Extended Warranty
· Armored and non-armored
· OS2 singlemode; OM3, OM4, OM5 multimode
· Stranded fiber counts starting at 2f up to 288f
· Rollable Ribbon counts starting at 24f to 3456f
· SYSTIMAX Application Assurance Warranty

Unique Selling Propositions

Verifiable performance: Exceptional performance extends the optical budget and network life cycle and can be verified using the WebTrak QR-based online platform that provides each cable's as-shipped performance test results as well as installation guidance.

Versatile and durable: Multiple configurations and robust construction enable seamless integration with the existing infrastructure, increasing design flexibility and accelerating deployment.

Future-ready: Supports emerging and future technologies and applications—AI, 5G, IoT, 800G, cloud computing, etc.—creating a strong and agile foundation for future growth.

Value proposition

The CommScope fiber cabling portfolio ensures the standard-exceeding performance, wide-ranging versatility and future-ready capabilities that enable today's enterprise and data center networks to be more agile, efficient and prepared for what's next. Backed by our SYSTIMAX® 25-Year Extended Warranty and Application Assurance, CommScope fiber cabling provides a strong yet agile foundation for your future network growth.

FAQs

Q1: Does CommScope have a fiber cable that can operate in both indoor and outdoor environments?
A1: CommScope indoor/outdoor fiber-optic cables operate in a wide range of temperatures and end-user environments. Storage and operating temperature ranges are found on the cable specifications.

Q2: Has CommScope performed an environmental impact study of its fiber cabling?
A2: Yes, CommScope has completed a life-cycle assessment study and has Environmental Product Declarations for a wide range of fiber cables.

Q3: What are the benefits of CommScope rollable ribbon fiber cables?
A3: CommScope rollable ribbon fiber cables offer higher fiber counts and greater fiber density. They also enable mass fusion splicing for faster cable installation.
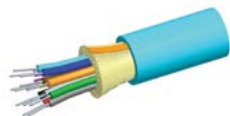
Fiber Cables

FIBER CABLES

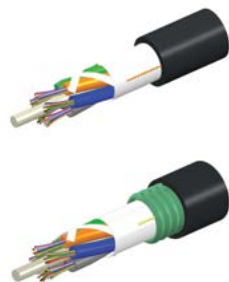| Material ID	Product number	Description	Fiber strands
OM3 Multimode, Indoor, Plenum, Tight Buffer, Non-Armored			
700009772	P-006-DS-5L-FSUAQ	6-Strand 50-micron, OM3 Plenum Distribution	6
700009731	P-012-DS-5L-FSUAQ	12-Strand 50-micron, OM3 Plenum Distribution	12
760018689	P-024-DS-5L-FSUAQ	24-Strand 50-micron, OM3 Plenum Distribution	24
700211147	P-048-DS-5L-FMUAQ	48-Strand 50-micron, OM3 Plenum Distribution	48
OM3 Multimode, Indoor, Plenum, Tight Buffer, Armored			
760127639	P-006-DZ-5L-FSUAQ	6-Strand 50-micron, OM3 Plenum Armored Distribution	6
760127647	P-012-DZ-5L-FSUAQ	12-Strand 50-micron, OM3 Plenum Armored Distribution	12
760127902	P-024-DZ-5L-FSUAQ	24-Strand 50-micron, OM3 Plenum Armored Distribution	24
OM3 Multimode, Indoor/Outdoor, Plenum, Tight Buffer, Non-Armored			
760036418	P-006-OD-5L-FSUBK	6-Strand 50-micron, OM3 IN/OUT Plenum Distribution	6
760037374	P-012-OD-5L-FSUBK	12-Strand 50-micron, OM3 IN/OUT Plenum Distribution	12
760037390	P-024-OD-5L-FSUBK	24-Strand 50-micron, OM3 IN/OUT Plenum Distribution	24
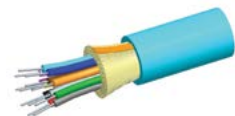
Fiber Cables

FIBER CABLES

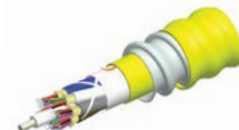| Material ID	Product number	Description	Fiber strands
OM4 Multimode, Indoor, Plenum, Tight Buffer, Non-Armored			
760012138	P-006-DS-5K-FSUAQ	6-Strand 50-micron, OM4 Plenum Distribution	6
760006411	P-012-DS-5K-FSUAQ	12-Strand 50-micron, OM4 Plenum Distribution	12
760018697	P-024-DS-5K-FSUAQ	24-Strand 50-micron, OM4 Plenum Distribution	24
760024554	P-048-DS-5K-FMUAQ	48-Strand 50-micron, OM4 Plenum Distribution	48
OM4 Multimode, Indoor, Plenum, Tight Buffer, Armored			
760128181	P-006-DZ-5K-FSUAQ	6-Strand 50-micron, OM4 Plenum Armored Distribution	6
760128017	P-012-DZ-5K-FSUAQ	12-Strand 50-micron, OM4 Plenum Armored Distribution	12
760127910	P-024-DZ-5K-FSUAQ	24-Strand 50-micron, OM4 Plenum Armored Distribution	24
760125971	P-048-DZ-5K-FSUAQ	48-Strand 50-micron, OM4 Plenum Armored Distribution	48
OM4 Multimode, Indoor/Outdoor, Tight Buffer, Non-Armored			
760036426	P-006-OD-5K-FSUBK	6-Strand 50-micron, OM4 IN/OUT Plenum Distribution	6
760037432	P-012-OD-5K-FSUBK	12-Strand 50-micron, OM4 IN/OUT Plenum Distribution	12
760037457	P-024-OD-5K-FSUBK	24-Strand 50-micron, OM4 IN/OUT Plenum Distribution	24

Fiber Cables

FIBER CABLES

Material ID	Product number	Description	Fiber strands
OM4 Multimode, OSP, Gel-Free, Loose Fiber, Non-Armored			
760054288	D-012-LN-5K-F12NS	12-Strand 50-micron, OM4 Outdoor Loose-Tube	12
760054296	D-024-LN-5K-F12NS	24-Strand 50-micron, OM4 Outdoor Loose-Tube	24
760054312	D-048-LN-5K-F12NS	48-Strand 50-micron, OM4 Outdoor Loose-Tube	48
760054338	D-072-LN-5K-F12NS	72-Strand 50-micron, OM4 Outdoor Loose-Tube	72
OM4 Multimode, OSP, Gel-Free, Loose Fiber, Armored			
760053736	D-012-LA-5K-F12NS	12-Strand 50-micron, OM4 Outdoor Armored Loose-Tube	12
760053744	D-024-LA-5K-F12NS	24-Strand 50-micron, OM4 Outdoor Armored Loose-Tube	24

Fiber Cables

FIBER CABLES

Material ID	Product number	Description	Fiber strands
OS2 Singlemode, Indoor, Plenum, Tight Buffer, Non-Armored			
760004333	P-006-DS-8W-FSUYL	6-Strand 8.3-micron, OS2 Plenum Distribution	6
760004358	P-012-DS-8W-FSUYL	12-Strand 8.3-micron, OS2 Plenum Distribution	12
760018630	P-024-DS-8W-FSUYL	24-Strand 8.3-micron, OS2 Plenum Distribution	24
760004382	P-048-DS-8W-FMUYL	48-Strand 8.3-micron, OS2 Plenum Distribution	48
OS2 Singlemode, Indoor, Plenum, Tight Buffer, Armored			
760127795	P-006-DZ-8W-FSUYL	6-Strand 8.3-micron, OS2 Plenum Armored Distribution	6
760127803	P-012-DZ-8W-FSUYL	12-Strand 8.3-micron, OS2 Plenum Armored Distribution	12
760127886	P-024-DZ-8W-FSUYL	24-Strand 8.3-micron, OS2 Plenum Armored Distribution	24
760127837	P-048-DZ-8W-FMUYL	48-Strand 8.3-micron, OS2 Plenum Armored Distribution	48
OS2 Singlemode, Indoor, Riser, Tight Buffer, Armored			
760127308	R-006-DZ-8W-FSUYL	6-Strand 8.3-micron, OS2 Riser Armored Distribution	6
760127316	R-012-DZ-8W-FSUYL	12-Strand 8.3-micron, OS2 Riser Armored Distribution	12
760127373	R-024-DZ-8W-FSUYL	24-Strand 8.3-micron, OS2 Riser Armored Distribution	24
760127340	R-048-DZ-8W-FMUYL	48-Strand 8.3-micron, OS2 Riser Armored Distribution	48

Fiber Cables

FIBER CABLES

Material ID	Product number	Description	Fiber strands
OS2 Singlemode, Indoor/Outdoor, Plenum, Tight Buffer, Non-Armored			
760036384	P-006-OD-8W-FSUBK	6-Strand 8.3-micron, OS2 IN/OUT Plenum Distribution	6
760037192	P-012-OD-8W-FSUBK	12-Strand 8.3-micron, OS2 IN/OUT Plenum Distribution	12
760037218	P-024-OD-8W-FSUBK	24-Strand 8.3-micron, OS2 IN/OUT Plenum Distribution	24
OS2 Singlemode, Indoor/Outdoor, Plenum, Tight Buffer, Armored			
760139899	P-006-OZ-8W-FSUBK	6-Strand 8.3-micron, OS2 IN/OUT Plenum Armored Distribution	6
760134924	P-012-OZ-8W-FSUBK	12-Strand 8.3-micron, OS2 IN/OUT Plenum Armored Distribution	12
OS2 Singlemode, Indoor/Outdoor, Riser, Loose Fiber, Non-Armored			
760086355	R-006-LN-8W-F06BK/25D	6-Strand 8.3-micron, OS2 IN/OUT Riser Loose-Tube	6
760086371	R-012-LN-8W-F12BK/25D	12-Strand 8.3-micron, OS2 IN/OUT Riser Loose-Tube	12
760086405	R-024-LN-8W-F12BK/25D	24-Strand 8.3-micron, OS2 IN/OUT Riser Loose-Tube	24
760086470	R-048-LN-8W-F12BK/25D	48-Strand 8.3-micron, OS2 IN/OUT Riser Loose-Tube	48
OS2 Singlemode, Indoor/Outdoor, Riser, Loose Fiber, Armored			
760120261	R-012-LZ-8W-F12BK/25D	12-Strand 8.3-micron, OS2 IN/OUT Riser Armored Loose-Tube	12
760130088	R-024-LZ-8W-F12BK/25D	24-Strand 8.3-micron, OS2 IN/OUT Riser Armored Loose-Tube	24

Fiber Cables

FIBER CABLES

Material ID	Product number	Description	Fiber strands
8G1 Singlemode, Indoor, Plenum, Rollable Ribbon			
760251512	P-024-MP-RR-F12YL/8G1/99N	24-Strand 8.3-micron, G.657 Plenum Rollable Ribbon	24
760251513	P-048-MP-RR-F12YL/8G1/99N	48-Strand 8.3-micron, G.657 Plenum Rollable Ribbon	48
760239139	P-144-CN-RR-F12YL/8G1/99E	144-Strand 8.3-micron, G.657 Plenum Central-Tube Rollable Ribbon	144
760239140	P-288-CN-RR-F12YL/8G1/99E	288-Strand 8.3-micron, G.657 Plenum Central-Tube Rollable Ribbon	288
8G1 Singlemode, Indoor, OFNR/LSZH, Rollable Ribbon			
760256411	Z-024-MP-RR-F12BK/8G1/99N/C	24-Strand 8.3-micron, G.657 OFNR/LSZH Rollable Ribbon	24
760256412	Z-048-MP-RR-F12BK/8G1/99N/C	48-Strand 8.3-micron, G.657 OFNR/LSZH Rollable Ribbon	48
760256414	Z-096-MP-RR-F12BK/8G1/99N/C	96-Strand 8.3-micron, G.657 OFNR/LSZH Rollable Ribbon	96
760239021	Z-144-CN-RR-F12BK/8G1/99G/C	144-Strand 8.3-micron, G.657 OFNR/LSZH Central-Tube Rollable Ribbon	144
760239022	Z-288-CN-RR-F12BK/8G1/99G/C	288-Strand 8.3-micron, G.657 OFNR/LSZH Central-Tube Rollable Ribbon	288

Fiber Cables

FIBER CABLES

Material ID	Product number	Description	Fiber strands
OS2 Singlemode, OSP, Gel-Free, Loose Fiber, Non-Armored			
760053843	D-012-LN-8W-F12NS	12-Strand 8.3-micron, OS2 Outdoor Loose-Tube	12
760053850	D-024-LN-8W-F12NS	24-Strand 8.3-micron, OS2 Outdoor Loose-Tube	24
760053876	D-048-LN-8W-F12NS	48-Strand 8.3-micron, OS2 Outdoor Loose-Tube	48
760053892	D-072-LN-8W-F12NS	72-Strand 8.3-micron, OS2 Outdoor Loose-Tube	72
OS2 Singlemode, OSP, Gel-Free, Loose Fiber, Armored			
760053280	D-012-LA-8W-F12NS	12-Strand 8.3-micron, OS2 Outdoor Armored Loose-Tube	12
760053298	D-024-LA-8W-F12NS	24-Strand 8.3-micron, OS2 Outdoor Armored Loose-Tube	24
760053314	D-048-LA-8W-F12NS	48-Strand 8.3-micron, OS2 Outdoor Armored Loose-Tube	48
760053330	D-072-LA-8W-F12NS	72-Strand 8.3-micron, OS2 Outdoor Armored Loose-Tube	72

EPX

EPX is CommScope's preferred patching solution for building applications, featuring enclosed rack mount and wall mount panels and available in two footprints, 360/G2/MOD and LGX/1000/PNL. EPX includes interchangeable adapter plates, adapter packs, splice cassettes and MPO modules. Designed for quick and easy deployment, simplified management and excellent versatility.

Use cases

EPX panels are deployed as a fiber distribution point in growing enterprise networks, especially where space in the telecom room is limited. This includes use in larger 2U/4U fiber shelves within the main distribution frame and smaller 1U/2U fiber shelves in the independent distribution frames on each floor. EPX panels are used for splicing, direct connector termination and preterminated fiber systems.

Features

- 1RU, 2RU and 4RU enclosed panels accept 3, 6 or 12 LGX/1000/PNL style adapter plates; fixed or sliding trays
- 1RU, 2RU and 4RU enclosed panels accept 4, 8 or 16 360/G2/MOD style adapter plates; fixed or sliding trays
- Interchangeable adapter plates, adapter packs, splice cassettes and MPO modules
- Supports LC/SC adapters, UPC/APC interfaces and simplex/duplex patching
- SYSTIMAX Application Assurance Warranty

Unique Selling Propositions

Design flexibility: Compact, lightweight rack-mount, cabinet-mount and wall-mount designs offer greater design flexibility and help optimize available space.

Easy to manage and upgrade: Easy-to-access design with interchangeable components reduces time needed to service, manage and upgrade.

Future-ready: Supports LC/SC adapters, UPC/APC interfaces and simplex/duplex patching for expanded design options, headroom for growth and easier, faster upgrades.

Value proposition

For growing networks where space in the telecom room is an issue, CommScope EPX fiber panels provide flexible, space-efficient solutions that are agile, easy to manage and even easier to upgrade. Available in a range of sizes and mounting options and featuring interchangeable adapter plates/packs, splice cassettes and MPO modules, EPX fiber panels enable smart, manageable growth.

FAQs

Q1: Will the EPX work for both Uniprise and SYSTIMAX installations?
A1: Yes, the only difference is in the front adapter plate and part number.

Q2: Which splice trays should be used with the EPX shelves?
A2: EPX-SPLICE-TRAYS.

Q3: Do the EPX shelves come in a basic open design?
A3: Yes, EPX-1U-PNL-OPEN or EPX-1U-MOD-OPEN is a good low cost option when a full enclosed shelf is not needed.

EPX solutions

RACK MOUNT FIBER PANELS

Material ID	Product number	Description
760249997	EPX-1U-PNL-ENC	1U RM Fiber Box, Accepts (3) 1000 Type Adapter Panels
760251045	EPX-2U-PNL-ENC	2U RM Fiber Box, Accepts (6) 1000 Type Adapter Panels
760251049	EPX-4U-PNL-ENC	4U RM Fiber Box, Accepts (12) 1000 Type Adapter Panels

WALL MOUNT FIBER PANELS

Material ID	Product number	Description
760248904	WB2-EMT-BK-1P-PNL	1P WM Fiber Box, Accepts (1) 1000 Type Adapter Panel
760248905	WB2-EMT-BK-2P-PNL	2P WM Fiber Box, Accepts (2) 1000 Type Adapter Panel
760248906	WB2-EMT-BK-4P-PNL	4P WM Fiber Box, Accepts (4) 1000 Type Adapter Panel
760248907	WB2-EMT-BK-8P-PNL	8P WM Fiber Box, Accepts (8) 1000 Type Adapter Panel

RACK MOUNT SPLICE BOX AND TRAY

Material ID	Product number	Description
760254513	EPX-3U-SPL-ENC	3U Fiber Splice Box, Accepts 7 EPX Splice Trays
760241378	EPX-SPLICE-48	EPX Splice Tray, Stackable, 48-Strand Capacity

EPX solutions

1000 SERIES PANEL, 50-MICRON, OM3/OM4, MM

Material ID	Product number	Description
760149344	PNL-BK-012-MFA-LC02-AQ-NS	1000 Series 50-Micron, OM3/OM4 12-Strand LC Panel
760067173	PNL-BK-012-MFA-LC02-AQ-SHUTTERED	1000 Series 50-Micron, OM3/OM4 12-Strand LC Panel - Shuttered
760148171	PNL-BK-024-MFA-LC02-AQ-NS	1000 Series 50-Micron, OM3/OM4 24-Strand LC Panel
760028209	PNL-BK-024-MFA-LC02-AQ-SHUTTERED	1000 Series 50-Micron, OM3/OM4 24-Strand LC Panel - Shuttered
760066076	PNL-BK-012-MFA-SC02-AQ	1000 Series 50-Micron, OM3/OM4 12-Strand SC Panel

1000 SERIES PANEL, 8.3-MICRON, OS2, SM

Material ID	Product number	Description
760149351	PNL-BK-012-SFA-LC02-BL-NS	1000 Series 8.3-micron, OS2 12-Strand LC Panel
760067165	PNL-BK-012-SFA-LC02-BL-SHUTTERED	1000 Series 8.3-micron, OS2 12-Strand LC Panel - Shuttered
760148361	PNL-BK-024-SFA-LC02-BL-NS	1000 Series 8.3-micron, OS2 24-Strand LC Panel
760027433	PNL-BK-024-SFA-LC02-BL-SHUTTERED	1000 Series 8.3-micron, OS2 24-Strand LC Panel - Shuttered
760148213	PNL-BK-006-SFA-SC02-BL	1000 Series 8.3-micron, OS2 06-Strand SC Panel
760027714	PNL-BK-012-SFA-SC02-BL	1001 Series 8.3-micron, OS2 12-Strand SC Panel

1000 SERIES BLANKS

Material ID	Product number	Description
760147751	PNL-BK-BLANK-6-PACK	Blank Adapter Pack
760237458	PNL-CS-00000	Blank Spice Cassette

EPX solutions

1000 SERIES SPLICE CASSETTE, 50-MICRON, OM3/OM4, MM

Material ID	Product number	Description
760221739	PNL-CS-12LCX-PT	12F OM3/OM4 LC Splice Cassette
760221697	PNL-CS-24LCX-PT	24F OM3/OM4 LC Splice Cassette
760221770	PNL-CS-12SCX-PT	12F OM3/OM4 SC Splice Cassette

1000 SERIES SPLICE CASSETTE, 8.3-MICRON, OS2, SM

Material ID	Product number	Description
760221747	PNL-CS-12LCW-PT	12F OS2 LC Splice Cassette
760221705	PNL-CS-24LCW-PT	24F OS2 LC Splice Cassette
760221788	PNL-CS-12SCW-PT	12F OS2 SC Splice Cassette

EPX solutions

RACK MOUNT FIBER PANELS

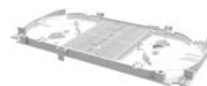| Material ID	Product number	Description
760249998	EPX-1U-MOD-ENC	1U RM Fiber Box, Accepts (4) 360G2 Type Module/Panel
760251044	EPX-2U-MOD-ENC	2U RM Fiber Box, Accepts (8) 360G2 Type Module/Panel
760251048	EPX-4U-MOD-ENC	4U RM Fiber Box, Accepts (16) 360G2 Type Module/Panel

WALL MOUNT FIBER PANELS

Material ID	Product number	Description
760248900	WB2-EMT-BK-1P-MOD	1P WM Fiber Box, Accepts (1) 360G2 Type Module/Panel
760248901	WB2-EMT-BK-2P-MOD	2P WM Fiber Box, Accepts (2) 360G2 Type Module/Panel
760248902	WB2-EMT-BK-4P-MOD	4P WM Fiber Box, Accepts (4) 360G2 Type Module/Panel
760248903	WB2-EMT-BK-8P-MOD	8P WM Fiber Box, Accepts (8) 360G2 Type Module/Panel

RACK MOUNT SPLICE BOX AND TRAY

Material ID	Product number	Description
760254513	EPX-3U-SPL-ENC	3U Fiber Splice Box, Accepts 7 EPX Splice Trays
760241378	EPX-SPLICE-48	EPX Splice Tray, Stackable, 48-Strand Capacity

EPX solutions

360 TYPE MODULE/PANEL, 50-MICRON, OM3/OM4, MM

Material ID	Product number	Description
760230938	360DPis-12LC-LS	360 Type 50-Micron, OM3/OM4 12-Strand LC Module/Panel
760216754	360DPis-24LC-LS	360 Type 50-Micron, OM3/OM4 24-Strand LC Module/Panel
760134551	360DP-12SC-LS	360 Type 50-Micron, OM3/OM4 12-Strand SC Module/Panel

360 TYPE MODULE/PANEL, 8.3-MICRON, OS2, SM

Material ID	Product number	Description
760230946	360DPis-12LC-SM	360 Type 8.3-Micron, OS2 12-Strand LC Module/Panel
760216762	360DPis-24LC-SM	360 Type 8.3-Micron, OS2 24-Strand LC Module/Panel
760135087	360DP-12SC-SM	360 Type 8.3-Micron, OS2 12-Strand SC Module/Panel

360 TYPE BLANK

Material ID	Product number	Description
760109462	360DP-Blank	Blank Adapter Pack

EPX solutions

G2 TYPE SPLICE CASSETTE, 50-MICRON, OM3/OM4, MM

Material ID	Product number	Description
760245399	G2-SP-12LCX-PT	G2 Type 50-Micron, OM3/OM4 12-Strand LC Splice Cassette
760244927	G2-SP-24LCX-PT	G2 Type 50-Micron, OM3/OM4 24-Strand LC Splice Cassette
760248831	G2-SP-12SCX-PT	G2 Type 50-Micron, OM3/OM4 12-Strand SC Splice Cassette

G2 TYPE SPLICE CASSETTE, 8.3-MICRON, OS2, SM

Material ID	Product number	Description
760245401	G2-SP-12LCG-PT	G2 Type 8.3-Micron, OS2 12-Strand LC Splice Cassette
760244929	G2-SP-24LCG-PT	G2 Type 8.3-Micron, OS2 24-Strand LC Splice Cassette
760245963	G2-SP-12SCG-PT	G2 Type 8.3-Micron, OS2 12-Strand SC Splice Cassette

SYSTIMAX® Propel™

A modular, ultra-low-loss, high speed fiber platform featuring high-density fiber panels with interchangeable modules, adapter packs, splice cassettes and fiber assemblies. The first fiber platform with native 16- and 8-fiber connectivity and support for 12- and 24-fiber configurations.

Use cases

For high-density environments such as data centers, central offices, head-end facilities and large enterprise networks needing to support multiple upgrades/migrations.

Features

- Ultra-low-loss performance
- Preterminated options
- Method B Enhanced polarity
- Duplex, quad and eight-lane deployments
- Native 16- and 8-fiber design
- Support for legacy 12-and 24-fiber connectivity
- Universal high-density fiber panel
- Modular, interchangeable VSFF components

Unique Selling Propositions

Fast, flexible deployment: Modular and swappable VSFF components, preterminated options and Method B Enhanced polarity work with CommScope design tools and calculators—enabling faster design and installation, more functionality and expanded connectivity with a reduced footprint.

Extended network life cycle: Supports multiple high-speed migrations, from 25 Gbps lane speeds to 50 Gbps, 100 Gbps, 200 Gbps and beyond—extending infrastructure ROI and helping to defer expensive overhauls.

CommScope assured: CommScope Application Assurance verifies your Propel™ platform applications and backs it with our SYSTIMAX® 25-year Extended Product Warranty. WebTrak® adds another layer of assurance, instantly verifying the as-shipped optical performance for any Propel component.

Value proposition

SYSTIMAX Propel high-speed fiber platform delivers the capacity, flexibility and simplified management to support evolving networks across multiple upgrades. The high-density, modular design and 16-, 8-, 12- and 24-fiber ultra-low-loss connectivity make it ideal for data center and enterprise networks. Engineered and supported by CommScope, it provides the performance, agility and manageability you need.

FAQs

Q1: Why design for 16-fiber connectivity?
A1: Transceiver speeds are rapidly moving from 100G/200G to 400G, 800G, 1.6T and beyond. To support a typical 1:1 subscription ratio, the leaf-and-spine fabric needs to run at 400G. 16-fiber connectivity is the most efficient way to divide and distribute the higher-speed capacity. Propel also supports all legacy 24-, 12- and 8-fiber applications, multimode and singlemode fiber, enabling you to migrate to higher speeds when ready—no rip and replace required.

Q2: Is Propel recommended for new installations?
A2: Yes. It provides network engineers with the standards-based design options and configuration flexibility to support all existing applications. Because it aligns with current duplex and emerging 8- and 16-fiber designs, Propel ensures seamless migration as your network evolves.

Q3: Is Propel backwards compatible with existing fiber installations?
A3: Propel can be deployed alongside an existing installation. It features a variety of cable assemblies that enable a seamless transition from an older legacy network to a future-ready Propel-enabled infrastructure.

Propel solutions

RACK MOUNT FIBER PANELS

Material ID	Product number	Description
760252002	PPL-1U	1U RM Fiber Box, Accepts Propel ULL Modules
760252003	PPL-2U	2U RM Fiber Box, Accepts Propel ULL Modules
760252004	PPL-4U	4U RM Fiber Box, Accepts Propel ULL Modules

RACK MOUNT FIBER PANELS (WHITE)

Material ID	Product number	Description
760255953	PPL-1U-W	1U RM Fiber Box, Accepts Propel ULL Modules - White
760255954	PPL-2U-W	2U RM Fiber Box, Accepts Propel ULL Modules - White
760255955	PPL-4U-W	4U RM Fiber Box, Accepts Propel ULL Modules - White

Propel solutions

PROPEL PASS-THROUGH ADAPTER PACKS

Material ID	Product number	Description
760252363	PPL-AP-12-LC-OM4	Propel Pass-Through Adapter Panel - 6-Duplex LC - UPC - 50-micron, OM4, MM
760252369	PPL-AP-24-LC-OM4	Propel Pass-Through Adapter Panel - 12-Duplex LC - UPC - 50-micron, OM4, MM
760252362	PPL-AP-12-LC-SM	Propel Pass-Through Adapter Panel - 6-Duplex LC - UPC - 8.3-micron, OS2, SM
760252368	PPL-AP-24-LC-SM	Propel Pass-Through Adapter Panel - 12-Duplex LC - UPC - 8.3-micron, OS2, SM
760252371	PPL-AP-4-MPO-ALL-B	Propel Pass-Through Adapter Panel - 4 MPO8 ports - All
760252372	PPL-AP-6-MPO-ALL-B	Propel Pass-Through Adapter Panel - 6 MPO8 ports - All
760252373	PPL-AP-8-MPO-ALL-B	Propel Pass-Through Adapter Panel - 8 MPO8 ports - All
760252806	PPL-AP-4-MPO16-ALL-B	Propel Pass-Through Adapter Panel - 4 MPO16 ports - All
760252805	PPL-AP-6-MPO16-ALL-B	Propel Pass-Through Adapter Panel - 6 MPO16 ports - All

Propel solutions

PROPEL MPO TO LC DISTRIBUTION MODULE

Material ID	Product number	Description
760252332	PPL-DM-8U-8LC-OM4-BEU	Propel Distribution Module - 1X8F MPO to 4 Duplex LC - UPC - 50-micron, OM4, MM
760252343	PPL-DM-12U-12LC-OM4-BEU	Propel Distribution Module - 1X12F MPO to 6 Duplex LC - UPC - 50-micron, OM4, MM
760252353	PPL-DM-16AU-16LC-OM4-BEU	Propel Distribution Module - 1X16F MPO to 8 Duplex LC - APC - 50-micron, OM4, MM
760254867	PPL-DM-NULL-8PLC-OM4-BEU	Propel Distribution Module - 1x8F MPO Breakout, 1x8F MPO to 4 Duplex LC - UPC - 50-micron, OM4, MM
760252334	PPL-DM-8AU-8LC-SM-BEU	Propel Distribution Module - 1X8F MPO to 4 Duplex LC - APC - 8.3-micron, OS2, SM
760252345	PPL-DM-12AU-12LC-SM-BEU	Propel Distribution Module - 1X12F MPO to 6 Duplex LC - APC - 8.3-micron, OS2, SM
760252348	PPL-DM-12AU-24LC-SM-BEU	Propel Distribution Module - 2x12F MPO to 12 Duplex LC - APC - 8.3-micron, OS2, SM
760252352	PPL-DM-16AU-16LC-SM-BEU	Propel Distribution Module - 1X16F MPO to 8 Duplex LC - APC - 8.3-micron, OS2, SM

Propel solutions

PROPEL SPLICE CASSETTES

Material ID	Product number	Description
760255044	PPL-SP-12LC-OM4-PT-BEU	Propel Splice Cassette - 12LC - 50-micron, OM4, MM
760255047	PPL-SP-12LC-OM4-RPT-BEU	Propel Splice Cassette - 12LC - 50-micron, OM4, MM - Rollable Ribbon
760255054	PPL-SP-24LC-OM4-PT-BEU	Propel Splice Cassette - 24LC - 50-micron, OM4, MM
760255043	PPL-SP-12LC-SM-PT-BEU	Propel Splice Cassette - 12LC - 8.3-micron, OS2, SM
760255046	PPL-SP-12LC-SM-RPT-BEU	Propel Splice Cassette - 12LC - 8.3-micron, OS2, SM - Rollable Ribbon
760255053	PPL-SP-24LC-SM-PT-BEU	Propel Splice Cassette - 24LC - 8.3-micron, OS2, SM
760255056	PPL-SP-24LC-SM-RPT-BEU	Propel Splice Cassette - 24LC - 8.3-micron, OS2, SM - Rollable Ribbon
760255076	PPL-SP-12LC-SM-PT-AS	Propel Splice Cassette - 12LC - 8.3-micron, OS2, SM - Method A
760255079	PPL-SP-12LC-SM-RPT-AS	Propel Splice Cassette - 12LC - 8.3-micron, OS2, SM - Rollable Ribbon - Method A
760255081	PPL-SP-24LC-SM-PT-AS	Propel Splice Cassette - 24LC - 8.3-micron, OS2, SM - Method A
760255084	PPL-SP-24LC-SM-RPT-AS	Propel Splice Cassette - 24LC - 8.3-micron, OS2, SM - Rollable Ribbon - Method A

Fiber connectors

Field-installable Qwik® II mechanical-splice connectors for LC, SC, and ST connectors, and Qwik-Fuse fusion splice-on connectors for LC, SC and MPO connectors. Both the Qwik II and Qwik-Fuse solutions are also available with optional termination tool kits that contain everything needed for fast, accurate terminations.

Use cases

Campus environments where exact cable measurements are not possible or where a fast repair is needed to restore network connections. Factory polishing and small fiber stubs reduce loss for improved performance, while the connectors' design reduces termination variability.

Features

Qwik II
· Installs in under 60 seconds
· No adhesives, polishing, crimping
· LC and SC connectors
· Reusable up to three times
· Optional Qwik II termination tool kit

Qwik-Fuse
· No requirement for pre-engineered lengths
· LC/SC, APC/UPC and MPO options
· Compatible with most fusion splicers
· 0.25 mm, 0.9 mm, 2 mm and 3 mm diameters
· Optional Qwik-Fuse termination tool kit

Unique Selling Propositions

Quick and easy installation: Qwik II connectors install in less than 60 seconds—no adhesives, polishing or crimping needed, while Qwik-Fuse fusion-spliced connectors work with any cable length. Both are available with termination tool kits that provide everything needed for field installation.

Easy to manage: Qwik II connectors arrive pre-polished and can be reused up to three times. Qwik-Fuse connectors require no pre-engineered lengths and eliminate slack storage issues.

Value proposition

CommScope field-installable Qwik II mechanical-splice connectors and Qwik-Fuse fusion splice-on connectors provide quick and accurate connectivity for faster service turn-up and ROI across any campus environment. Both solutions offer an optional termination tool kit that provides everything needed for repeatable and reliable connectorization in the field. A complete field-installable connector solution, engineered and supported by CommScope.

FAQs

Q1: What are the benefits of CommScope field-installable connectors?
A1: Fast to install; no requirement for pre-engineered lengths; eliminates unwanted slack storage

Q2: What is the difference between Qwik II and Qwik-Fuse connectors?
A2: Qwik II connectors are mechanical-splice connectors that don't require special tools, and Qwik-Fuse connectors utilize fusion splicing to ensure best-in-class insertion and return loss performance.

Q3: What fiber/cable diameters do Qwik II and Qwik-Fuse connectors support?
A3: Qwik II supports 250 um and 900 um, and 3.0 mm and 2.0 mm OD cables.

Connectors

QWIK II, FIELD INSTALLABLE

Material ID	Product number	Description
760117887	MFC-LCF-09-5X	LC OM3/OM4 Field Installable Connector
760117911	MFC-LCF-09-5X-25-PACK	LC OM3/OM4 Field Installable Connector - 25 Pack
760117945	MFC-SCF-09-5X	SC OM3/OM4 Field Installable Connector
760117895	SFC-LCF-09-8X	LC OS2 Field Installable Connector
760117929	SFC-LCF-09-8X-25-PACK	LC OS2 Field Installable Connector - 25 Pack
760117952	SFC-SCF-09-8X	SC OS2 Field Installable Connector

FIELD INSTALLABLE TOOL KIT

Material ID	Product number	Description
760248225	TERM-TOOL-KIT-PR QWIK II	Termination Tool for Field Installable Connectors

Connectors

QWIK-FUSE, SPLICE-ON CONNECTORS

Material ID	Product number	Description
760243371	MFC-LCF-20-5Y-12-PACK	LC OM3/OM4 Splice-On Connector - 12 Pack
760243372	SFC-LCF-09-8Y-12-PACK	LC OS2 Splice-On Connector - 12 Pack

FIELD INSTALLABLE TOOL KIT

Material ID	Product number	Description
760243403	QWIK-FUSE Installer Termination Toolkit	Termination Toolkit with installer for field installable Qwik-Fuse connectors

Fiber pigtails

Low-latency, high-speed performance and rugged design. Available with 1, 6, and 12 fibers and standard or angled LC or SC connectors, they support a wide range of demanding applications. Backed by CommScope's SYSTIMAX® 25-year Extended Product Warranty and Application Assurance.

Use cases

Vertical or horizontal indoor fiber distribution to the patch panel or equipment for commercial buildings and data centers.

Features

· Performance meets/exceeds industry standards
· Bend-insensitive design
· Standard and angled LC and SC connectors
· 12 different jacket colors
· 1, 6 and 12 fiber counts
· Tight-buffered and loose tube
· OM4, OM5 wideband and OS2
· Backed by SYSTIMAX Application Assurance

Unique Selling Propositions

Exceptional performance: Reliable low-latency, high data transfer performance meets or exceeds industry standards to support current and emerging applications like AI, 5G, IoT, and cloud computing and provide headroom for growth.

Robust design: Engineered to perform over time. Bend-insensitive design reduces installation challenges even when deployed in constrained locations with multiple tight bends. Backed by SYSTIMAX® 25-year Extended Product Warranty.

Flexible configurations: Available with multiple connector options, fiber counts, jacket colors, plenum- and riser-rated construction and multimode or singlemode fiber, they can be configured for nearly any indoor application and environment.

Value proposition

When it comes to quickly breaking out capacity to servers, switches and routers, CommScope fiber pigtails provide the optical performance, flexibility and easy installation needed. With a wide range of connector, fiber and construction options, they're configurable for nearly any indoor application and environment; and their low- and ultra-low-loss performance ensure plenty of headroom for growth.

FAQs

Q1: What's the difference between fiber pigtails and fiber patch cords?
A1: A fiber pigtail is a short length of fiber-optic cable with one end terminated for splicing, while a fiber patch cord is a cable with connectors on both ends, ready for direct plug-and-play connections. Pigtails are more suitable for permanent installations and splicing, while patch cords are versatile and used for creating temporary connections in network environments.

Q2: What is the purpose of color-coding pigtails?
A2: Color coding fiber pigtails and other fiber-optic components helps network technicians quickly identify various attributes of the fibers, connectors, or the pigtails themselves. Colors denote characteristics such as fiber type, connector type and polish type.

Q3: Can fiber pigtails be used for high-density fiber connectivity such as those used by data centers?
A3: Yes. In fact, their flexibility and convenience in managing and connecting large numbers of fibers make them well suited for high-density applications. They are compatible with high-density patch panels, cassettes, and enclosures—making them a practical choice for data center installations.

1	2	3	4	5	6	7	8	9	-	11	12	13	14	-	16
F	A	X	L	C	U	C	0	1	-	M	X	F	0	0	2

Prefix

1	FA	Pigtail tight buffer
2	FB	Pigtail - Riser SBJ

Fiber type

3	X	LazrSPEED® 550 OM4 multimode
	W	TeraSPEED® singlemode
	V	LazerSPEED® WB OM5

Connector 1

4	LC	LC standard
	LA	LC angled
5	SC	SC standard
	SA	SC angled

Connector 2

6	UC	Unconnectorized
7		

Cordage size

8	0	0.9 mm (Tight buffered fiber)
	1	0.9 mm (Reinforced Buffered Fiber)

Fiber count

9	1	1 fiber
	A	6 fiber pigtail kit BL-WH (1-6)
	B	6 fiber pigtail kit RD-AQ (7-12)
	C	12 fiber pigtail kit BL-AQ (1-12)

Jacket color

11	A	Blue
	B	Orange
	C	Green
	D	Brown
	E	Slate
	F	White
	G	Red
	H	Black
	J	Yellow
	K	Violet
	L	Rose
	M	Aqua
	N	Lime Green
	X	KIT pigtail

Breakout length

12	X	No breakout

Unit of measurement

13	F	Feet
	M	Meter

Length

14 - 16	1-66	Feet
	1-20	Meters

LC keyed fiber pigtails are also available as part of CommScope secure fiber solutions.

Fiber patch cords

High-speed, versatile indoor fiber patch cords support a wide range of applications, environments and optical performance requirements, current and future.

Use cases

Used in data center, telecom and enterprise networks to provide reliable high-speed connectivity to servers, switches, and routers.

Features

· OM4, OM5 wideband and singlemode
· Simplex and duplex (zipcord)
· Standard or angled LC/SC/SN connectors
· LSZH-, OFNR-, LSZH/Riser-rated, OFNP
· SYSTIMAX Application Assurance
· Low-loss, ultra-low-loss optical performance
· Bend-insensitive design
· Factory-connected, polished/unpolished SYSTIMAX® 25-year Extended Product Warranty

Unique Selling Propositions

Low latency, high data transfer: Meets or exceeds industry standards to support the demands of AI, 5G, IoT, cloud compute and migration to 400G, 800G and beyond. Optical performance is backed by SYSTIMAX Application Assurance.

Quick to deploy, easy to maintain: Robust construction with high bend tolerance produces a forgiving cable that minimizes installation challenges and improves change management efficiency. Construction quality is supported by SYSTIMAX 25-year extended product warranty.

Wide range of configurations: Among the widest portfolios of indoor fiber patching

solutions with multiple options for fiber type/number, connector type/finish, optical performance and environment.

Value proposition

CommScope indoor fiber patching solutions continue to set the standard for reliable high-speed connectivity to servers, switches, and routers. Their low-latency, high data transfer performance meets your toughest application demands—AI, 5G, cloud compute, 400G/800G and more. Forgiving, fast deploying and available in a wide range of configurations, they're a perfect match for nearly any indoor patching application and environment—data center, commercial building or telecom facility.

FAQs

Q1: What factors should be considered when selecting a fiber patch cord for a particular application?
A1: Consider the fiber type based on the bandwidth and distance requirements, the compatibility between connector types and your equipment, and their polish, jacket material (indoor/outdoor, plenum/riser, etc.), fiber count, bend radius and the cable structure (i.e., simplex or duplex zipcord).

Q2: How do I decide whether to use field-terminated or preterminated patch cords?
A2: : Field-terminated cords are well suited for unique installation environments or those needing customized lengths. Use preterminated patch cords for installations involving regular and repeatable requirements and/or when using lower-skilled installers.

Q3: What are the key differences between simplex and duplex fiber patch cords?
A3: Simplex patch cords consist of a single fiber within a single cable and, typically, a connector at each end. They are often used in bidirectional communication with a send and receive channel. Duplex patch cords consist of two fibers, usually in a zipcord (side-by-side) or breakout (individual cables) configuration. They are primarily used for two-way communication, such as in network connections where data needs to be transmitted and received at the same time.

Campus Fiber Solutions
Fiber Optic Patch Cord Configurator

```
 1  2    3    4  5    6  7    8    9   -  11   12   13   14  -  16
 F  D    X    L  C    L  C    2    1   -  J    X    F    0   1   0
```

Prefix

1	FD	Jumper - plenum
2	FE	Jumper - riser

Fiber type

3	X	LazrSPEED® 550 OM4 multimode
	W	TeraSPEED® singlemode
	V	LazrSPEED® WB OM5

Connector 1

4	LC	LC standard
	LA	LC angled
5	SC	SC standard
	SA	SC angled

Connector 2

6	LC	LC standard
	LA	LC angled
7	SC	SC standard
	SA	SC angled

Cordage size

8	2	1.6 mm simplex
	4	1.6 mm zipcord

Fiber count

9	1	1 fiber
	2	2 fiber

Jacket color

11	J	Yellow
	M	Aqua
	N	Lime Green

Breakout length

12	X	No breakout

Unit of measurement

13	F	Feet
	M	Meter

Length

14 - 16	1-999	Feet
	1-999	Meters

LC keyed fiber patchcords are also available as part of CommScope secure fiber solutions.

Note: OM5 jumpers are only available in LC to LC.

Support

Technical Support

Technical Assistance Center (TAC)
1-800-830-5056
TAC.Americas@commscope.com

CommScope pushes the boundaries of communications technology
with game-changing ideas and ground-breaking discoveries that spark
profound human achievement. We collaborate with our customers and
partners to design, create and build the world's most advanced networks.
It is our passion and commitment to identify the next opportunity and
realize a better tomorrow. Discover more at commscope.com

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