



MTDC Fiber connectivity and Rollable Ribbon cables – Ordering guide

COMMSCOPE®

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CommScope MTDC Rollable Ribbon Fiber Solutions Overview

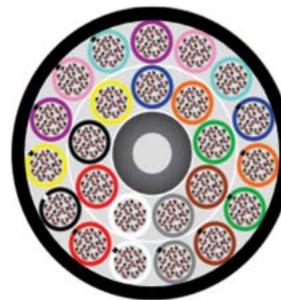
Advances in technology have enabled the data center industry to keep ahead of the insatiable demand for more capacity and bandwidth. Faster processors, higher density storage and high-speed, more cost-effective connectivity have been key contributors to this success.

Rollable ribbon fiber technology is one of the latest technology advances that helps data center managers meet demand while maximizing precious space in pathways and ducts. The inherent flexibility of the rollable ribbon matrix allows it to deliver up to twice as many fibers within the same cable diameter as conventional flat ribbon cables while maintaining the installation advantages that ribbon technology offers.

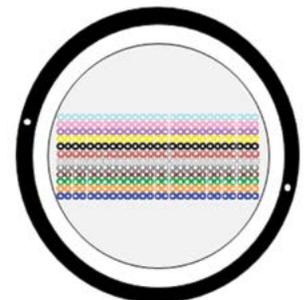
CommScope's rollable ribbon solutions extend well beyond just fiber cable. From the outside plant networks, to building entrance, meet-me rooms and even extending to customer cages, CommScope offers a comprehensive range of singlemode fiber solutions which fully exploit rollable ribbon fibertechnology – offering MTDC operators and their clients faster time-to-service and better utilization of valuable space in the data center.



Rollable ribbon fiber cable

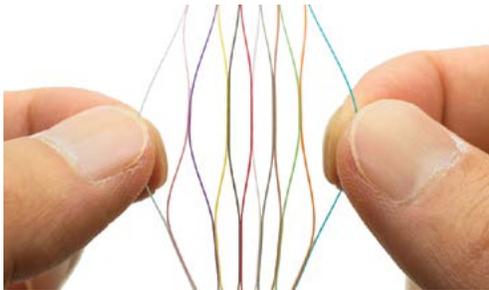


Flat ribbon fiber cable



Rollable Ribbon Technology Overview

CommScope’s rollable ribbon technology utilizes partially bonded fiber ribbons comprised of 12 fibers. Unlike conventional ribbons, which are fully longitudinally bonded, rollable ribbons are partially bonded. As seen below, the partial bonding process used with rollable ribbons allows them to be easily separated and “rolled” into a cylinder, thus making much better use of space when compared with flat ribbons.



Rollable ribbon



Conventional Flat Ribbon matrix
(side view and top view)

Cables containing rollable ribbon fibers offers significant advantages over flat ribbon fiber cables, including the following:

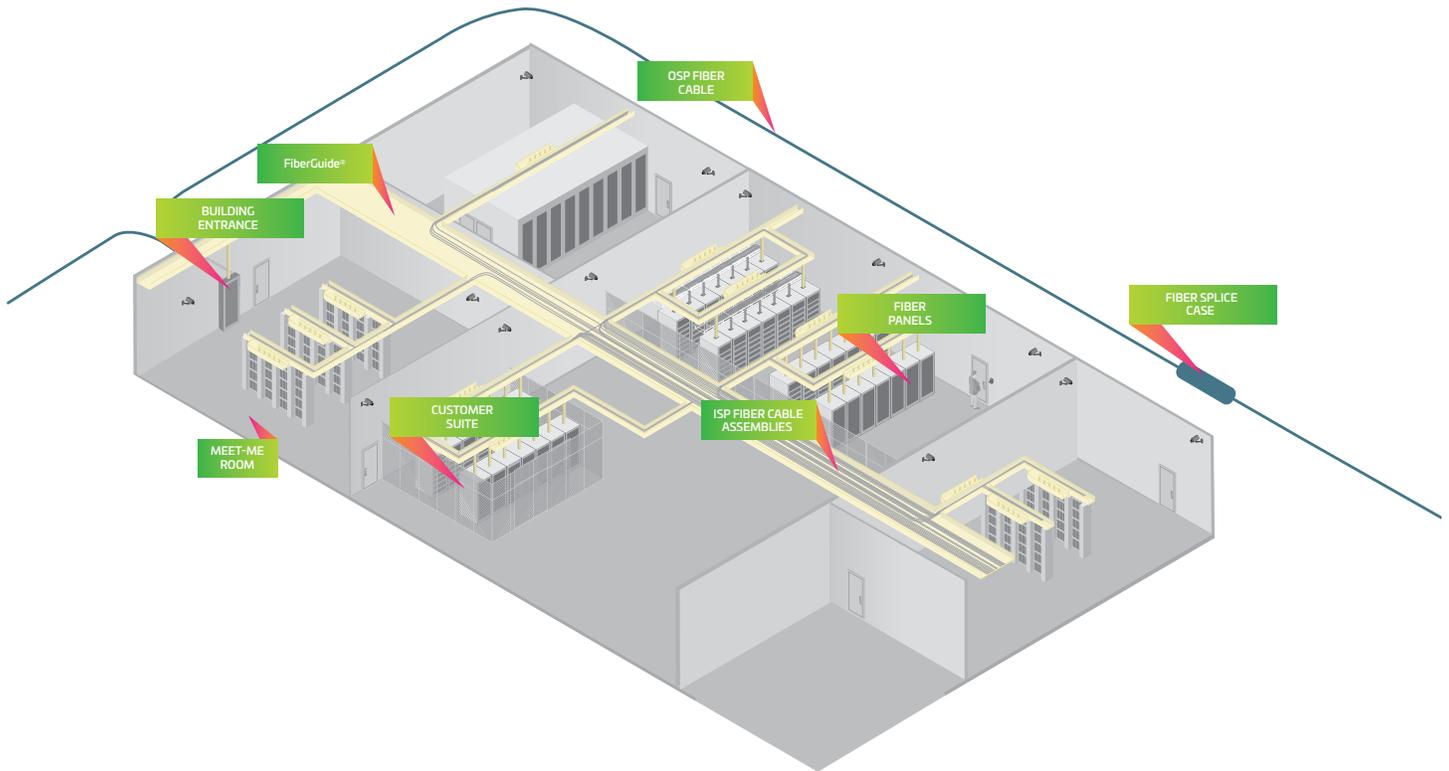
- Double the fiber density of standard matrix flat ribbons
- Smaller, lighter cables simplify handling and installation
- Significant reduction in splice time through use of mass fusion splicing
- No preferential bend (common in flat matrix ribbons)
- Easy separation for splicing or connectorization
- Smaller bend radii due to smaller cable diameter; allowing smaller telecom spaces such as closures, panels and hand holes
- Outdoor cables available in gel-free construction
- Fiber counts available from 144 to 3456

OSP rollable ribbon fiber cables offer double the fiber counts compared with flat ribbon fiber cables as shown in the table below comparing several duct sizes.



MAX FIBER COUNT	1 in (2.5 cm) duct	1 1/4 in. (3.2 cm) duct	2 in. (5 cm) duct
FLAT RIBBON	432	864	1728
ROLLABLE RIBBON	864	1728	3456

Applications for Rollable Ribbon Fiber Cables in MTDCs



As seen above, CommScope offers a comprehensive to avail of rollable ribbon technology throughout the MTDC facility, including the following:

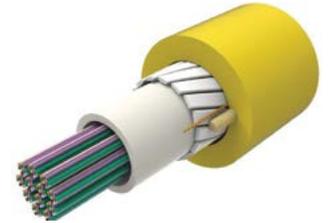
- OSP fiber cable available in all-dielectric and metallic armored constructions up to 3456 fibers
- Fiber splice cases capable of splicing up to 3456 fibers
- Building entrance facilities for transitioning between outdoor rollable ribbon to indoor rollable ribbon cables, available as floor-mount, wall-mount or rack-mount
- Indoor and indoor/outdoor rollable ribbon fiber cables up to 864 fibers
- Fiber panels available with pre-terminated rollable ribbon fiber cable assemblies for the meet-me-room or customer cages

Rollable Ribbon Fiber Cable Solutions

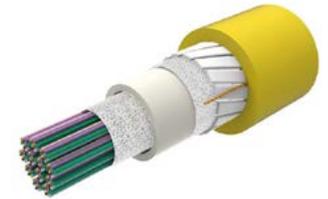
SINGLE-MODE ROLLABLE RIBBON FIBER CABLE

CommScope's rollable ribbon fiber cables provide double the density of standard matrix ribbon cables. Much higher fiber counts can now be used in existing fiber containment and pathways. Data center overhead or underfloor pathways are less congested, avoiding or postponing expensive and disruptive pathway additions.

INDOOR OFNP ALL-DIELECTRIC CENTRAL TUBE CABLE 250UM				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
144	G.657.A2/B2	760246289	P-144-CN-RR-F12YL/8G1/99E	9.60 mm 0.38in
288	G.657.A2/B2	760246290	P-288-CN-RR-F12YL/8G1/99E	12.10 mm 0.48in



INDOOR OFNR/LSZH (CPR CCA) ALL-DIELECTRIC CENTRAL TUBE CABLE 250UM				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
144	G.657.A2/B2	760239307	N-144-CN-RR-F12YL/8G1/99G/B2	10.50 mm 0.41in
288	G.657.A2/B2	760239308	N-288-CN-RR-F12YL/8G1/99G/C	12.50 mm 0.49in
432	G.657.A2/B2	760246291	N-432-CN-RR-F12YL/8G1/99G/C	15.50 mm 0.61in
576	G.657.A2	760246292	N-576-CN-RR-F12YL/8G1/99G/C	17.00 mm 0.67 in
864	G.657.A2	760242275	N-864-CN-RR-F12YL/8G1/99G/C	19.50 mm 0.77 in
1728	G.657.A2/B2	760244182	N-1728-LN-RR-F12YL/8G1/99H/B2	25.40 mm 1.00 in



INDOOR OFNR/LSZH (CPR CCA) ALL-DIELECTRIC CENTRAL TUBE CABLE 200UM				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
144	G.657.A2/B2	760245280	N-144-CN-RR-F12YL/8G1/99L/200/C	9.00 mm 0.35 in
288	G.657.A2/B2	760246310	N-288-CN-RR-F12YL/8G1/99L/200/C	10.90 mm 0.44 in
432	G.657.A2/B2	760250975	N-432-CN-RR-F12YL/8G1/99L/200/C	15.00mm 0.60 in
576	G.657.A2/B2	760250976	N-576-CN-RR-F12YL/8G1/99L/200/C	15.00mm 0.60 in
864	G.657.A2/B2	760250049	N-864-CN-RR-F12YL/8G1/99L/200/C	17.00mm 0.67 in
1728	G.657.A2/B2	760250977	N-1728-LN-RR-F12YL/8G1/99L/200/C	23.00 mm 0.91 in
3456	G.657.A2/B2	760250978	N-3456-LN-RR-F12YL/8G1/99L/200/C	27.50 mm 1.08 in



Rollable Ribbon Fiber Cable Solutions

INDOOR/OUTDOOR ROLLABLE RIBBON FIBER CABLE

INDOOR/OUTDOOR ALL-DIELECTRIC OFNR AND LSZH CENTRAL TUBE CABLE 250UM				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
144	G.657.A2/B2	760239021	Z-144-CN-RR-F12BK/8G1/99G/B2	10.50 mm 0.41 in
432	G.657.A2/B2	760246293	Z-432-CN-RR-F12BK/8G1/99G/C	15.50 mm 0.61in
576	G.657.A2/B2	760246294	Z-576-CN-RR-F12BK/8G1/99G/C	17.00 mm 0.67in
864	G.652.D and G.657.A1	760246164	Z-864-CN-RR-F12BK/8G1/99G/C	19.50 mm 0.77in
1728	G.657.A2	760244183	Z-1728-LN-RR-F12BK/8G1/99H/B2	25.40mm 1.00 in



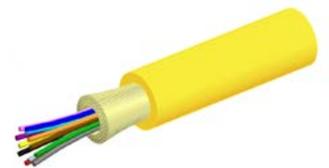
INDOOR/OUTDOOR ALL-DIELECTRIC OFNR AND LSZH CENTRAL TUBE CABLE 200UM				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
144	G.657.A2/B2	760245282	Z-144-CN-RR-F12BK/8G1/99L/200/C	9.10 mm 0.35 in
288	G.657.A2/B2	760245283	Z-288-CN-RR-F12BK/8G1/99L/200/C	12.50 mm 0.49 in
432	G.657.A2/B2	760250979	Z-432-CN-RR-F12BK/8G1/99L/200/C	15.00 mm 0.60 in
576	G.657.A2/B2	760250980	Z-576-CN-RR-F12BK/8G1/99L/200/C	15.00 mm 0.60 in
864	G.657.A2/B2	760250108	Z-864-CN-RR-F12BK/8G1/99L/200/C	17.00 mm 0.67 in
1728	G.657.A2	760250981	Z-1728-LN-RR-F12BK/8G1/99L/200/C	23.00 mm 0.91 in
3456	G.657.A2	760250982	Z-3456-LN-RR-F12BK/8G1/99L/200/C	27.50 mm 1.08 in



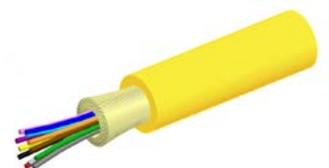
INDOOR/OUTDOOR INTERLOCKING ARMORED OFNR AND LSZH CENTRAL TUBE CABLE 250UM				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
144	G.657.A2/B2	760239048	Z-144-CZ-RR-F12BK/8G1/99G/B2	19.20mm 0.76in
288	G.657.A2/B2	760248083	Z-288-CZ-RR-F12BK/8G1/99G/B2	20.50mm 0.81in
432	G.657.A2/B2	760248084	Z-432-CZ-RR-F12BK/8G1/99G/B2	24.30 mm 0.96in
576	G.657.A2/B2	760239051	Z-576-CZ-RR-F12BK/8G1/99G/B2	25.50 mm 1.00in
864	G.657.A2/B2	760248082	Z-864-CZ-RR-F12BK/8G1/99G/B2	28.10 mm 1.11in



INDOOR OFNR AND LSZH MP CABLE 250UM			
FIBER COUNT	MID	PRODUCT CODE	OUTSIDE DIAMETER
12	760251515	N-012-MP-RR-F12YL/8G1/99N/C	5.88 mm 0.23 in
24	760251516	N-024-MP-RR-F12YL/8G1/99N/C	5.88 mm 0.23 in
48	760251517	N-048-MP-RR-F12YL/8G1/99N/C	6.60 mm 0.26 in
72	760251518	N-072-MP-RR-F12YL/8G1/99N/C	7.20 mm 0.28 in
96	760251519	N-096-MP-RR-F12YL/8G1/99N/C	7.80 mm 0.31 in
144	760251520	N-144-MP-RR-F12YL/8G1/99N/C	9.20 mm 0.36 in



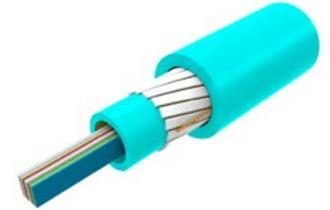
INDOOR/OUTDOOR OFNR LSZH MP CABLES 250UM			
FIBER COUNT	MID	PRODUCT CODE	OUTSIDE DIAMETER
12	760256410	Z-012-MP-RR-F30BK/8G1/99K/C	3.00 mm 0.12 in
24	760256411	Z-024-MP-RR-F12BK/8G1/99N/C	5.88 mm 0.23 in
48	760256412	Z-048-MP-RR-F12BK/8G1/99N/C	6.60 mm 0.26 in
72	760253914	Z-072-MP-RR-F12BK/8G1/99N/C	7.20 mm 0.28 in
96	760256414	Z-096-MP-RR-F12BK/8G1/99N/C	7.80 mm 0.31 in
144	760256415	Z-144-MP-RR-F12BK/8G1/99N/C	9.20 mm 0.36 in



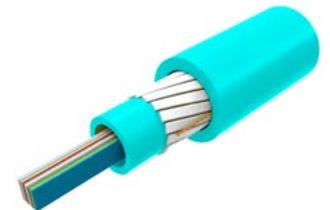
Rollable Ribbon Fiber Cable Solutions

MULTIMODE ROLLABLE RIBBON CABLE

PLENUM INDOOR CABLE ALL-DIELECTRIC CENTRAL TUBE RIBBON, 12-FIBER, MULTIMODE OM4				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
12	OM4, bend insensitive	760232736	P-012-CN-RB-F12AQ/5X/99E	9.20 mm 0.36 in
24	OM4, bend insensitive	760232744	P-024-CN-RB-F12AQ/5X/99E	9.20 mm 0.36 in
36	OM4, bend insensitive	760232751	P-036-CN-RB-F12AQ/5X/99E	9.20 mm 0.36 in
48	OM4, bend insensitive	760232769	P-048-CN-RB-F12AQ/5X/99E	9.20 mm 0.36 in
60	OM4, bend insensitive	760232777	P-060-CN-RB-F12AQ/5X/99E	9.20 mm 0.36 in
72	OM4, bend insensitive	760232785	P-072-CN-RB-F12AQ/5X/99E	9.20 mm 0.36 in
96	OM4, bend insensitive	760232793	P-096-CN-RB-F12AQ/5X/99E	10.10 mm 0.40 in



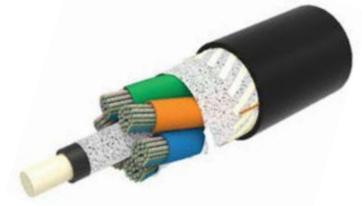
DUAL RATED LSZH RISER INDOOR CABLE ALL-DIELECTRIC, CENTRAL TUBE RIBBON, MULTIMODE, OM4				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
12	OM4, bend insensitive	760212308	N-012-CN-RB-F12AQ/5X/99E	9.40 mm 0.37 in
24	OM4, bend insensitive	760212316	N-024-CN-RB-F12AQ/5X/99E	9.40 mm 0.37 in
36	OM4, bend insensitive	760212324	N-036-CN-RB-F12AQ/5X/99E	9.40 mm 0.37 in
48	OM4, bend insensitive	760212332	N-048-CN-RB-F12AQ/5X/99E	9.40 mm 0.37 in
60	OM4, bend insensitive	760212340	N-060-CN-RB-F12AQ/5X/99E	9.40 mm 0.37 in
72	OM4, bend insensitive	760212357	N-072-CN-RB-F12AQ/5X/99E	9.40 mm 0.37 in
96	OM4, bend insensitive	760212365	N-096-CN-RB-F12AQ/5X/99E	10.20 mm 0.40 in
144	OM4, bend insensitive	760212373	N-144-CN-RB-F12AQ/5X/99E	12.10 mm 0.48 in



CommScope Rollable Ribbon Fiber Cable Offering

OUTDOOR ROLLABLE RIBBON FIBER CABLE

OSP ALL-DIELECTRIC NON-ARMORED STRANDED LOOSE TUBE CABLE				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
432	G.652.D and G.657.A1	760241352	D-432-LN-RR-F12NS/8Z/99H	16.80 mm 0.66 in
576	G.652.D and G.657.A1	760241353	D-576-LN-RR-F12NS/8Z/99H	21.00 mm 0.83 in
864	G.652.D and G.657.A1	760241354	D-864-LN-RR-F12NS/8Z/99H	21.00 mm 0.83 in
1152	G.652.D and G.657.A1	760239856	D-1152-LN-RR-F12NS/8Z/99H	25.10 mm 0.99 in
1440	G.652.D and G.657.A1	760241355	D-1440-LN-RR-F12NS/8Z/99H	25.10 mm 0.99 in
1728	G.652.D and G.657.A1	760239389	D-1728-LN-RR-F12NS/8Z/99H	25.10 mm 0.99 in



OSP METALLIC ARMOR STRANDED LOOSE TUBE CABLE				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
432	G.652.D and G.657.A1	760241356	D-432-LA-RR-F12NS/8Z/99H	18.60 mm 0.73 in
576	G.652.D and G.657.A1	760241357	D-576-LA-RR-F12NS/8Z/99H	23.20 mm 0.91 in
864	G.652.D and G.657.A1	760241358	D-864-LA-RR-F12NS/8Z/99H	23.20 mm 0.91 in
1152	G.652.D and G.657.A1	760239857	D-1152-LA-RR-F12NS/8Z/99H	26.80 mm 1.06 in
1440	G.652.D and G.657.A1	760241359	D-1440-LA-RR-F12NS/8Z/99H	26.80 mm 1.06 in
1728	G.652.D and G.657.A1	760239858	D-1728-LA-RR-F12NS/8Z/99H	26.80 mm 1.06 in



OSP Fiber Optic Splice Closure (FOSC)

CommScope's Fiber Optic Splice Closures (FOSC™) combine proven fiber management hardware with a highly reliable sealing system. Reliability, ease-of installation and flexibility are key.

FOSC splice closures offer:

Open, easy access fiber management

- Organizer trays support fast, mass splicing jobs in feeder and long-haul areas of the network
- Hinged splice trays for access to any splice without disturbing fibers in other trays
- Compatible with most common cable types

Superior durability and reliability

- Designed to withstand the rugged outside plant environment on wall, pole or hand-hole
- Used in aerial, pedestal and underground (up to 5 meters/16 feet)

CommScope offers two FOSC product families that are ideally suited for rollable ribbon fiber cables.

FOSC 450

FOSC 450 fiber optic splice closures are a family of single-ended closures designed for use most anywhere there are fiber splicing and storage needs. These closures are available in three sizes optimized for rollable ribbon fiber, each featuring:

- Re-usable compressed gel cable sealing components that accommodate a wide range of cable sizes
- Hinging splicing trays that provide controlled access to splices and slack storage
- Splice and storage compartments accessible via a removable dome-clamp system
- Thermoplastic outer materials that withstand temperature and contaminate extremes



CHARACTERISTICS CHART			
TYPE/SIZE	D6	C6	B6
Closure Size ¹ (inches)	11.5 dia. 30 L	11.5 dia. 23 L	9.8 dia. 24 L
Approximate Closure Weights (lbs)	20	16	13
CLOSURE CAPACITY			
End-to-End Splicing			
Mass Fusion Splice	1152	864	288
Mid-Sheath Splicing			
Mass Fusion Splice	864	432	288
TRAYS PER CLOSURE			
Ribbon Trays	4 ⁵ / 3 ³ / 2 ⁴	4 ⁵ / 3 ³ / 2 ⁴	3 ⁵ / 3 ³ / 2 ⁴
PATCHING			
Tray (quantity/type)	Yes (12, 16,/sc)	No	Yes (12, 16,/sc)
Basket (quantity/type)	Yes (4/all, 8/sc)	No	Yes (4/all, 8/sc)
SEALING SYSTEM			
Closure Dome-to-Base	O-Ring	O-Ring	O-Ring
Top-to-Bottom	Clamp	Clamp	Clamp
CABLE CAPACITY			
Butt (std./max.)	6 / 16 ⁷ / 21 ⁸	6 / 16 ⁷ / 21 ⁸	6 / 16 ⁷ / 21 ⁸
Inline (std./max.)	N/A	N/A	N/A
Fire Retardant Closure Available			
	No. ^{9, 10}	No. ⁹	No. ^{9, 10}
Tools Required			
	Can Wrench, Snips	Can Wrench, Snips	Can Wrench, Snips

¹ Closure length ("L") plus 10X largest cable diameter installed equals the overall length required for handhole. Maximum dimensions include clamp and cable sealing

² SMOUV splice protection sleeves should be used

³ With standard basket

⁴ With tall basket

⁵ Flexible sock is used for LBT storage

⁶ The ribbon tray can also be configured with 12 SC adapters for patching and provide 12 single splice capacity

⁷ If using the 3-cable Multicable kit, 3 flat or 3 round cables per port if cable does not exceed <0.25" diameter

⁸ If using the 4-cable Multicable kits and combined cables do not exceed 1" diameter

⁹ Fire Retardant bag or blanket options

¹⁰ Fire Retardant closures available in FOSC 400 family

FOSC 450 Ordering

FOSC 450 closures are available in two formats: Base units with no pre-installed trays, and standard kits.

CLASS A LIST: BASIC KITS WITH REDUCED LEAD-TIMES		
FOSC 450B		CAPACITY (MASS FUSION SPLICE)
FOSC450-B6-6-NT-0-B3V	FOSC™450 B6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, three ground feedthrough lugs, with test valve	Up to 288 Fibers
FOSC450-B6-4-NT-0-N0V	FOSC™450 B6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 4 cable attachments, with test valve	
FOSC450-B6-4-NT-0-N3V	FOSC™450 B6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 4 cable attachments, three ground feedthrough lugs, with test valve	
FOSC 450C		CAPACITY (MASS FUSION SPLICE)
FOSC450-C6-6-NT-0-C6V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, six ground feedthrough lugs, with test valve	Up to 864 Fibers
FOSC450-C6-4-NT-0-N0V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 4 cable attachments, with test valve	
FOSC450-C6-4-NT-0-N3V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 4 cable attachments, three ground feedthrough lugs, with test valve	
FOSC 450D		CAPACITY (MASS FUSION SPLICE)
FOSC450-D6-6-NT-0-D6V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, six ground feedthrough lugs, with test valve	Up to 1152 Fibers
FOSC450-D6-4-NT-0-N0V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 4 cable attachments, with test valve	
FOSC450-D6-4-NT-0-N3V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 4 cable attachments, three ground feedthrough lugs, with test valve	

For detailed ordering information on the FOSC 450, complete with a comprehensive list of accessories, please refer to the [FOSC 450 Splice Closures Ordering Guide](#).

FOSC 450 Ordering

CLASS B LIST: STANDARD KITS. INCLUDES SPLICE TRAY, BASKET, AND GROUNDING OPTIONS		
FOSC 450B		CAPACITY (MASS FUSION SPLICE)
FOSC450-B6-6-NT-0-B0V	FOSC™450 B6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, with test valve	Up to 288 Fibers
FOSC450-B6-6-R1-1-B0V	FOSC™450 B6 Fiber Optic Splice Closure, Gel Cable sealing, with pre-installed A/B ribbon tray, 6 cable attachments, with test valve	
FOSC450-B6-6-R1-1-B3V	FOSC™450 B6 Fiber Optic Splice Closure, Gel Cable sealing, with pre-installed A/B ribbon tray, 6 cable attachments, with test valve	
FOSC450-B6-6-NT-0-T0V	FOSC™450 B6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, with test valve	
FOSC450-B6-6-NT-0-T3V	FOSC™450 B6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, three ground feedthrough lugs, with test valve	
FOSC 450C		CAPACITY (MASS FUSION SPLICE)
FOSC450-C6-6-NT-0-C0V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, with test valve	Up to 864 Fibers
FOSC450-C6-6-R3-1-C0V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, pre-installed C ribbon tray, 6 cable attachments, with test valve	
FOSC450-C6-6-R3-1-C3V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, three ground feedthrough lugs, with test valve	
FOSC450-C6-6-R3-1-C6V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, pre-installed C ribbon tray, 6 cable attachments, six ground feedthrough lugs, with test valve	
FOSC450-C6-6-NT-0-T0V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, with test valve	
FOSC450-C6-6-NT-0-T6V	FOSC™450 C6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, tall, six ground feedthrough lugs, with test valve	
FOSC 450D		CAPACITY (MASS FUSION SPLICE)
FOSC450-D6-6-NT-0-D0V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, with test valve	Up to 1152 Fibers
FOSC450-D6-6-R2-1-D0V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, pre-installed D ribbon tray, 6 cable attachments, with test valve	
FOSC450-D6-6-R2-1-D3V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, pre-installed D ribbon tray, 6 cable attachments, with test valve	
FOSC450-D6-6-R2-1-D6V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, pre-installed D ribbon tray, 6 cable attachments, with test valve	
FOSC450-D6-6-NT-0-T0V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, with test valve	
FOSC450-D6-6-NT-0-T6V	FOSC™450 D6 Fiber Optic Splice Closure, Gel Cable sealing, no pre-installed tray, 6 cable attachments, with test valve	

FOSC 600D-XL

The FOSC 600 line of gel-sealed fiber optic splice closures are rugged and versatile platforms that can be deployed anywhere in the outside plant for a multitude of functions and accommodates up to 3456 fiber splices when deployed with ribbon cables.

The sealing system for FOSC features the versatile and popular gel-sealing technology for terminating cables, and a unique latching system for quickly opening and closing the body.



FOSC 600D-XL WITH SPLICE TRAYS		
MID	CATALOG NUMBER	DESCRIPTION
379484-000	FOSC600-D6B-24-12-X2VXL	3456 fiber splice capacity. FOSC 600D-XL Fiber Optic Splice Closure Kit with 12 x FOSC D-48 standard size splice trays installed, each capable of up to 288 splices of 12 fiber "rollable ribbon" or "spider ribbon" fiber. Kit also includes 2 x 3-port FOSC 600 gel blocks, XL version slack storage basket, 2 x ground feed-through lugs, flash test valve, and associated closure hardware and components.
233947-000	FOSC600-D6B-R2-6-X2VXL	1728 fiber splice capacity. FOSC 600D-XL Fiber Optic Splice Closure Kit with 6 x FOSC D size Ribbon splice trays installed, each capable of up to 288 splices of ribbon 12 fiber. Kit also includes 2 x 3-port FOSC 600 gel blocks, XL version slack storage basket, 2 x ground feed-through lugs, flash test valve, and associated closure hardware and components.
371599-000	FOSC600-D8B-R2-6-X2VXL	864 fiber splice capacity. FOSC 600D-XL Fiber Optic Splice Closure Kit with 6 x FOSC D size Ribbon splice trays installed, each capable of up to 288 splices of ribbon 12 fiber. Kit also includes 2 x 4-port FOSC 600 gel blocks, XL version slack storage basket, 2 x ground feed-through lugs, flash test valve, and associated closure hardware and components.
FOSC 600D-XL WITHOUT SPLICE TRAYS		
854729-000	FOSC600-D6B-NT-0-X2VXL	Six cable entry ports. FOSC 600D-XL Fiber Optic Splice Closure Kit with no splice trays installed, offering the flexibility to add any of the FOSC D (or C) splice trays separately. Kit also includes 2 x 3-port FOSC 600 gel blocks, XL version slack storage basket, 2 x ground feed-through lugs, flash test valve, and associated closure hardware and components.
359472-000	FOSC600-D8B-NT-0-X2VXL	Eight cable entry ports. FOSC 600D-XL Fiber Optic Splice Closure Kit with no splice trays installed, offering the flexibility to add any of the FOSC D (or C) splice trays separately. Kit also includes 2 x 4-port FOSC 600 gel blocks, XL version slack storage basket, 2 x ground feed-through lugs, flash test valve, and associated closure hardware and components.
SPLICE TRAY KITS AND ACCESSORIES		
426579-000	FOSC-ACC-D-TRAY-36	Single height tray used for 864, 1728, and 3456 total splice capacity. 36 fusion splices per tray with 6 x 6-position modules. 2 trays included.
061064-000	FOSC-ACC-D-TRAY-RIBN-24	Double height tray used for 864 and 1728 total splice capacity. 24 mass fusion splices per tray with 4 x 6-position modules. 1 tray included.
757849-000	SMOUV-1120-R2/12-02	SMOUV Splice Protection Sleeves (min order qty. 1000). Heat-shrinkable mass fusion 12-fiber ribbon.



426579-000



757849-000

Note: Splice tray kits include tray, clear cover, splice modules, and tie wraps. Consult your CommScope representative to determine which tray is recommended depending on the cable count and style of ribbon cable construction.

Building Entrance Solutions

OSP fiber networks can include connectivity between buildings on a campus that often require splicing hardware beyond the fiber panel. These can include entrance cabinets for applications inside the building or enclosures for applications in the outside plant. CommScope offers a full portfolio of splicing hardware solutions including rack mount panels, entrance cabinets, and enclosures.

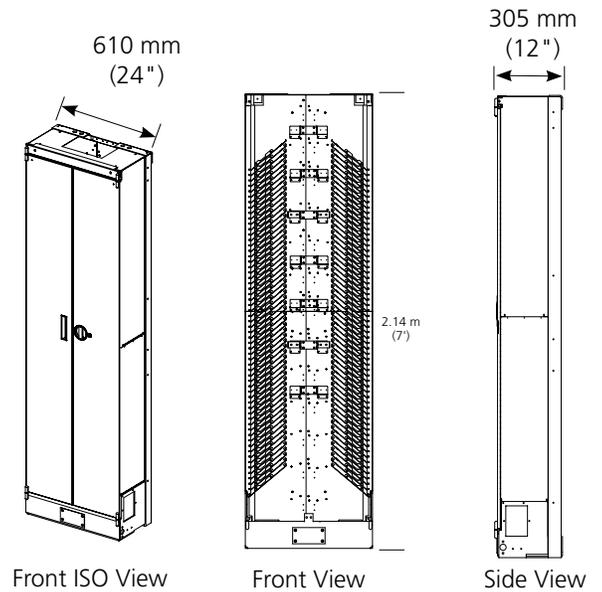
CommScope's splicing solutions accommodate rollable ribbon fiber construction. Our Fiber Entrance Cabinets (FECs) are offered in a variety of sizes accommodating a wide range of fiber counts up to 3456 fibers. The FECs feature superior cable access, intuitive cable routing, and ample slack storage.



Fiber Entrance Cabinets (FEC) - Floor Mount Frame

The FEC splice cabinet is a zone 4 rated, high-density splice solution, housing stranded fiber splices and ribbon fiber splices within a 24" W x 12" D X 7' H. Shipped complete with the necessary cable management, it features slots which secure and protect the round splice trays and can hold up to sixty splice trays oneach vertical. The cabinet is shipped with lockable front doors and may be ordered for applications in which the cables enter from above or below.

The FEC splice cabinet is offered in putty and black versions.



FULLY CONFIGURED SPLICE CABINET (BLACK)		
(see the following pages for stranded and ribbon splice capacities)		
CATALOG NUMBER	DESCRIPTION	DIMENSIONS (HxWxD)
MX6-BSPL-1440-U7	Cable enters from top	2.14 m x 610 mm x 305 mm (7' x 24" x 12")
SPLICE CABINET CABLE CLAMPS		
FEC-ACCCLMP01	OSP cable	
MX6-BAYTEMPLATE	Isolation pad for splice cabinet A template for cabinet installation providing isolation between the cabinet and the ground	
ACCESSORIES		
NG4-SNKT-BULK	Snap-in Cable Retention Rings (Qty. 40)	
NG4-SPCAB-MTBKT	Optional External Trunk Mounting Bracket	
NG4-CBOUT-288	Breakout kit 288 fiber cable	
NG4-CBOUT-1728	Kit of 6 - 288 fiber breakouts	
NG4-CBOUT-BULK	Kit of 24 - 288 fiber breakouts	

Fiber Entrance Cabinets (FEC) - Floor Mount Frame

SPLICE BAY CAPACITY: MX6-BSPL-1440-U7

Table 1 summarizes the FEC HD Bay (black) ribbon cable splice capacity.

TABLE 1: SPECIFICATIONS	
PARAMETER	SPECIFICATION
Fiber count	Up to 11,520 ribbon fibers
Round splice tray capacity	96 splices per tray (96 OSP- 96 IFC ribbon fibers)
Round splice trays per bay	up to 120

CABLE SIZES USED IN FEC SPLICE BAY: MX6-BSPL-1440-U7

Table 2 has bay configuration guidelines for OSP cable sizes commonly used within the FEC Splice Bay.

Table 3 has comparable information for IFC cables.

TABLE 2: OSP CABLE SIZES COMMONLY USED WITH FEC SPLICE BAY			
FIBERS PER CABLE	CABLES PER BAY	TRAYS TO OCCUPY	TOTAL SPLICES
864	12	108	10,368
1152	10	120	11,520
1728	6	108	10,368
3456	3	108	10,368

TABLE 3: IFC CABLE SIZES COMMONLY USED WITH FEC SPLICE BAY			
FIBERS PER CABLE	CABLES PER BAY	TRAYS TO OCCUPY	TOTAL SPLICES
288	40	120	11,520
432	26	117	11,232
576	20	120	11,520
864	12	108	10,368

Fiber Entrance Cabinets (FEC) - Floor Mount Frame

FRAME INSTALLATION KIT

Frame installation kits may be used on network frames and are seismic zone 4 rated.

CATALOG NUMBER	DESCRIPTION
RAC-MX0616	Concrete floor frame installation kit, includes: (2) M8 bolts, 90 mm (3.5") (4) M8 nuts (8) flat washers (4) lock washers shims and anchor plates
RAC-MX0615	Raised floor frame installation kit, includes: (4) threaded rods M12 x 1 m (3.28") (12) heavy nuts, lock and flat washers (4) nuts with springs, M12 (2) 1.8 m (5.9") unistrut (1) anchor kit
FDf-ACC146	xxx floor frame installation kit, includes: Designation card holder 1 each Two-bar channel 4 each Framing clip with 0.56 4 each Framing clip with 0.69 4 each Clip J-bolt 4 each, 1/2" – 13" x 18" long Threaded rod 2 each, 5/8" x 18" long Hex nut 4 each, 1/2" x 13" Hex nut 4 each, 5/8" x 11"

SPLICE TRAY

The round splice tray used in the FEC simplifies installation and maintenance. The tray stores up to 9.8-feet of slack allowing the installer to roll the tray away from the frame to perform splicing.

CATALOG NUMBER	NUMBER OF FIBERS	TYPE OF SPLICE	SPLICE SLEEVES
FST-DRS12-HS	12	Single Fiber Heat Shrink	FST-ACC001
FST-DRS24-HS	24	Single Fiber Heat Shrink	FST-ACC001
FST-DRS72-MF	72	Mass Fusion	FST-ACC006
FST-DRSHD-MF	96	Mass Fusion, High Density Ribbon *	FST-ACC006

* FEC bay MX6-BSPL-1440-U7 only

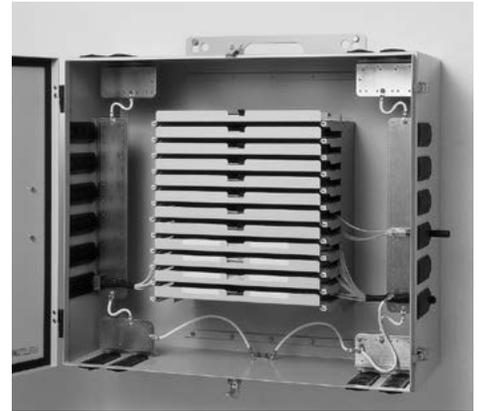


Fiber Entrance Cabinets (FEC) - Wall Mount Frame

CommScope's FEC Wall Mount Frame provides splicing, administration and storage for outside plant (OSP) and intrafacility cables (IFC). The cabinets are designed for deployment in a building equipment area. The FEC offers a cost-effective, space-saving alternative to splicing on the fiber frame.

Equipped with splice drawers and available in several configurations, the FEC's largest configuration accommodates up to 864 stranded fibers or 10,368 ribbon fibers. Bend radius protection and discrete subunit routing paths ensure easy access and prevent excess attenuation.

This cabinet accommodates a wide variety of cable types and splicing methods.



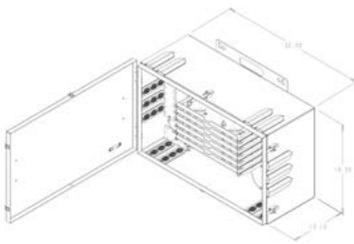
PRODUCT OVERVIEW	
Recommended applications	Off-frame splice location for outside plant (OSP) cables to be spliced to intrafacility (IFC) cable
Description	Accommodates multiple fiber splicing requirements with various cabinet sizes
Cable management	Superior
Routing paths	Clear
Physical protection	Robust
Access splice point	Easy

Fiber Entrance Cabinets (FEC) - Wall Mount Frame Ordering Guide

DETERMINE THE CABINET CONFIGURATION THAT BEST SUITS YOUR APPLICATION.

CATALOG NUMBER STANDARD DRAWER CONFIGURATION	CABINET SIZE		NO. OF DRAWERS INCLUDED WITH CABINET	WEIGHT	DIMENSIONS (HXWXD)
	STRANDED FIBERS	RIBBON FIBERS			
FEC-144	144	432	6	40 lbs (18.18 kg)	19.48" x 32" x 13" (49.47 x 81.28 x 33.02 cm)
FEC-288	288	864	12	80 lbs (36.3 kg)	28" x 32" x 13" (71.12 x 81.28 x 33.02 cm)
FEC-432RM	432	1,296	18	95 lbs (43.2 kg)	36" x 26" x 15" (91.44 x 66.04 x 38.1 cm)
FEC-576	576	1,728	24	120 lbs (54.4 kg)	45" x 32" x 13" (114.3 x 81.28 x 33.02 cm)
FEC-864	864	2,592	36	160 lbs (72.6 kg)	62" x 32" x 13" (157.48 x 81.28 x 33.02 cm)
FEC-10K *	864	10,368	36	160 lbs (72.6 kg)	62" x 32" x 13" (157.48 x 81.28 x 33.02 cm)

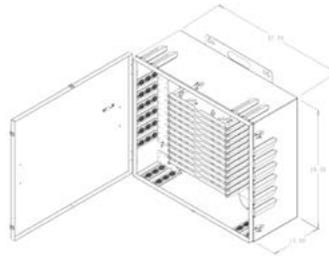
* Work with your Field Engineer on this option.



144-Position

- Equipped with 6 drawers
- 144 stranded fiber capacity
- 432 ribbon fiber capacity

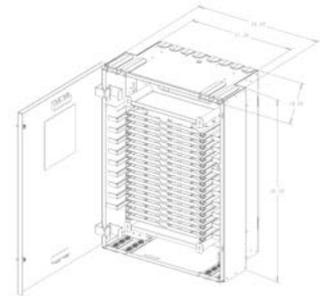
* wall and unistrut mount only



288-Position

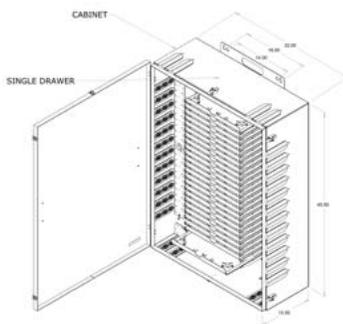
- Equipped with 12 drawers
- 288 stranded fiber capacity
- 864 ribbon fiber capacity

* wall and unistrut mount only



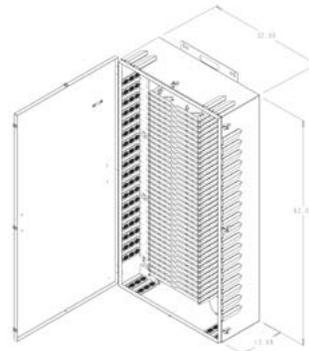
432-Position

- Equipped with 18 drawers
- 23-INCH RACK MOUNT ONLY
- EIA and WECO rack spacing compatible
- 432 stranded fiber capacity
- 1296 ribbon fiber capacity



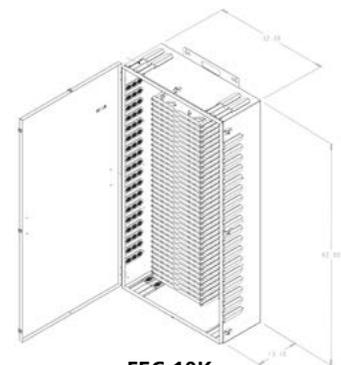
576-Position

- Equipped with 24 drawers
- 576 stranded fiber capacity
- 1728 ribbon fiber capacity



864-Position

- Equipped with 36 drawers
- 864 stranded fiber capacity
- 2592 ribbon fiber capacity



FEC-10K

- Equipped with 36 drawers
- 864 stranded fiber capacity
- 10368 ribbon fiber capacity

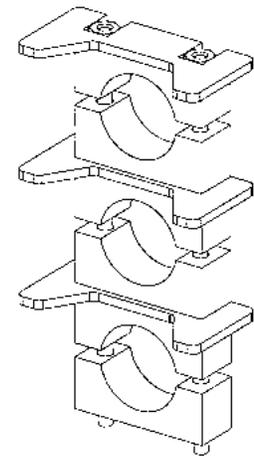
Fiber Entrance Cabinets (FEC) - Accessories

RIBBON BREAK-OUT KITS

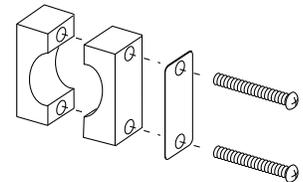
For additional information regarding breakout kits for Ribbon in Loose Buffer Tube (RLBT) OSP Cable and Ribbon Central Tube (RCT) OSP Cable and Intra-Facility (IFC) Ribbon Cables, please refer to the CommScope [Building Entrance Facility Solutions Guide](#) (BR-112360-EN).

FIBER CABLE CLAMP KITS ORDERING INFORMATION		
DESCRIPTION	MAXIMUM CABLE DIAMETER	MATERIAL ID
IFC/OSP Cable Clamp Kits - Wall Mount. Secure three cables to a single cable entry point on the cabinet. Can be separated and used as single clamps.	0.4" - 1.2" (10 - 30 mm)	OSP-CLPFEC-LG
	0.2" - 0.7" (5 - 18 mm)	OSP-CLPFEC
Individual IFC/OSP cable clamp -Wall Mount. Secure one cable to a single cable entry point on the cabinet.	0.2" - 0.7" (5 - 18 mm)	OSP-CLPSST
Individual IFC/OSP Cable Clamp - Rack or Wall Mount. Secure one cable to a single cable entry point on the cabinet.	0.4" - 1.2" (10 - 30 mm)	FEC-ACCCLMP01
Individual soft IFC only cable clamp - Wall Mount. Secure one cable to a single cable entry point on the cabinet.	0.8" - 1.1" (20 - 28 mm)	OSP-CLPSST-IFCL
	0.2" - 0.7" (5 - 18 mm)	OSP-CLPSST-IFCS
OSP Cable Clamp Kit - Wall Mount. For wall mount configurations of the FEC-10K only. Secure one cable to a single cable entry point on the cabinet (kit of 6).	1.25" - 1.50" (32 - 38 mm)	OSP-CLPFEC-XL*

* Cannot be used with other configurations



IFC/OSP Cable Clamp Kit
(OSP-CLPFEC-LG Shown)



Individual IFC/OSP Cable Clamp
(OSP-CLPSST Shown)

SPLICE TRAY

Standard-style FEC cabinets will accept two single trays or one dual tray per drawer.

CATALOG NUMBER			DESCRIPTION
Single Tray (12-position) 9 mm x 299 mm x 127 mm (0.3" x 11.75" x 5")	Dual Tray (24-position) 14 mm x 299 mm x 127 mm (0.5" x 11.75" x 5")	Splice Sleeve Protector	Standard Splice Trays
FST-MT	FST-D-MT	FST-ACC006	Mass fusion ribbon
760241731	FOST-ACC-C-TRAY-RIBN-24	SMOUV-1120-R2/12-02 **	24 Mass Fusion Splices (288 fibers total) *
*Only used in the FEC-10K			
**SMOUV Splice Protection Sleeves (min order qty. 1000) Heat-shrinkable Mass Fusion 12-Fiber Ribbon			

Fiber Entrance Cabinet (FEC) – Rack Mounted Frame

A critical piece of an advanced design is the building entrance termination point, where the outside plant (OSP) and intrafacility cables (IFC) are joined, managed, distributed and protected. CommScope's FEC provides splicing, administration and storage for OSP and IFC. The cabinets are designed for deployment in a building equipment area. The FEC offers a cost-effective, space-saving alternative to splicing on the fiber frame.

Equipped with splice drawers the FEC-XL-RM configuration accommodates up to 5184 ribbon fibers with each drawer supporting 288 ribbon fibers. Bend radius protection and discrete subunit routing paths ensure easy access and prevent excess attenuation.

This cabinet accommodates a wide variety of cable types and splicing methods.



ORDERING INFORMATION				
CABINET SIZE RIBBON FIBERS	NUMBER OF DRAWERS INCLUDED WITH CABINET*	WEIGHT (LBS.)	DIMENSIONS (HXWXD)	PART NUMBER
5184	18	100 lbs.	36.73" x 25.98" x 19.53" (932.9 x 659.89 x 496.06 mm)	FEC-XL-RM

* Uses one FOST splice tray per drawer.

SPLICE TRAY AND ACCESSORIES

Standard-style FEC cabinets will accept two single splice trays or one dual splice tray per drawer.

ORDERING INFORMATION		
DESCRIPTION	PART DESCRIPTOR	PART NUMBER
Ribbon Fiber Splice Trays		
24 Mass Fusion Splices (288 fibers total)	FOST-ACC-C-TRAY-RIBN-24	760241731
12 Mass Fusion Splices (144 fibers total)	FOST-ACC-C-TRAY-RIBN-12	760242184
Ribbon Fiber Expansion Kit Adds 12 splices to the FOST-ACC-C-TRAY-RIBN-12 tray; converting it to a 288-splice tray	FOSC450-C-RIBBONTRAY-EXPANSION	760242185
Splice Protection Sleeves Heat-shrinkable Mass Fusion 12-Fiber Ribbon (min order qty. 1000)	SMOUV-1120-R2/12-02	757849-000



FOST-ACC-C-TRAY-RIBN -24



FOST-ACC-C-TRAY-RIBN-12



FOSC450-C-RIBBONTRAY-EXPANSION

FIBER CABLE CLAMP KITS

Please refer to table on page 19.

Fiber Panels Supporting Rollable Ribbon Fiber Cable

CommScope offers a comprehensive range of fiber panels to meet the demands of the MTDC meet-me-room to the customer cage. The following fiber panels accommodate rollable ribbon fiber.

ULTRA-DENSITY SPLICE (UDS) PANELS

The ultra-density splice family of splicing panels features a modular, ultra-dense design that scales effortlessly while holding maintenance costs and space requirements to a minimum, making it ideal for areas like meet-me rooms and interconnects.

Its compact design maximizes fiber port density within each rack, while a removable rear splicing drawer and superior cable routing ensure easy fiber access and control.

- Up to 288 fibers in a 2RU size or 864 fibers in a 6RU
- Connects up to 6,912 fibers in a single rack
- Intelligent cable routing supports multiple incoming cable configurations
- Combines up to eight 6RU panels to accept 6,912 fibers in a single rack
- Allows for incremental spending as needed with pay-as-you-grow scaling
- Available with Method A or Method B Enhanced polarity

The modular design supports migration to increasingly higher fiber-count ribbon cables, providing more headroom for future growth.

Faster, Simplified Deployment

With a completely removable splice drawer, open access to trays, and ample pigtail slack, the ultra-density splice panel can be installed by one person in about half the time of comparable solutions.

- 12-fiber ribbon pigtails allow fast mass fusion splicing
- Internal, translucent shutters provide dust protection while making troubleshooting easy
- Shutters actuated by connector insertion enable one-handed operation



2RU front panel



6RU front panel



6RU rear panel

Ultra-Density Splice (UDS) Panel Options and Ordering

PHYSICAL SPECIFICATIONS

PANEL	HEIGHT	WIDTH	DEPTH	WEIGHT
2RU	3.4 in	17.5 in	24 in	16 lbs
6RU	10.5 in	17.5 in	24 in	42 lbs

ULTRA-DENSITY SPLICE (UDS) PANELS

MODEL ID	ORDERING CODE	PANEL SIZE	DUPLEX PORTS	PORT TYPE	POLARITY METHOD	OPTICAL LOSS PERFORMANCE
760239066	UDS-2U-BK-LA-A	2RU	144	LC/APC	Method A	Low loss
760239068	UDS-2U-BK-LA-B	2RU	144	LC/APC	Method B (E)	Low loss
760239070	UDS-6U-BK-LA-A	6RU	432	LC/APC	Method A	Low loss
760239072	UDS-6U-BK-LA-B	6RU	432	LC/APC	Method B (E)	Low loss
760239074	UDS-2U-BK-LC-A-ULL	2RU	144	UPC/LC	Method A	Ultra-low loss
760239076	UDS-2U-BK-LC-B-ULL	2RU	144	UPC/LC	Method B (E)	Ultra-low loss
760239078	UDS-6U-BK-LC-A-ULL	6RU	432	UPC/LC	Method A	Ultra-low loss
760239080	UDS-6U-BK-LC-B-ULL	6RU	432	UPC/LC	Method B (E)	Ultra-low loss

ULTRA-DENSITY SPLICE (UDS) OPTIONS

MODEL ID	ORDERING CODE	DESCRIPTION
760239082	UDS-2RU -DOOR-LOCK-KT	Front door lock kit for 2RU UDS panel, includes 1 lock and 1 key
760240771	UDS-6RU-DOOR-LOCK-KT	Front door lock kit for 6RU UDS panel, includes 3 locks and 1 key

INSTALLATION KIT

Each ultra-density splice (UDS) panel is delivered with a complete installation kit that includes a ship along kit with all necessary accessories to install the given panel.



One 1,728-fiber cable



Two 1,728-fiber cables



One 3,456-fiber cable



Four 864-fiber cables

Enhanced High-Density (EHD) Fiber Panels

CommScope's EHD fiber solutions for ultra low-loss applications consists of high-density panels, fiber modules, adapter packs, Splice cassettes and pre-terminated fiber trunks, arrays and fanouts.

EHD panels support up to 144 fibers (LC) or 576/864/1152 fibers (8f/12f/24f MPO) per 1RU. Despite their enhanced high-density capabilities, EHD panels make fiber management surprisingly easy. The sliding trays enable front and rear access to individual connectors for installation/patching while integrated fiber managers reduce the overall cable count—simplifying access to individual patch cords.



ORDERING INFORMATION		
MATERIAL ID	PRODUCT CODE	DESCRIPTION
EHD-1U	EHD-1U	SYSTIMAX EHD 1U sliding tray fiber panel, accepts (6) EHD ULL modules, splice cassettes or MPO panels, providing up to 72 duplex LC ports or up to 72 MPO ports
EHD-2U	EHD-2U	SYSTIMAX EHD 2U sliding tray fiber panel, accepts (12) EHD ULL modules, splice cassettes or MPO panels, providing up to 144 duplex LC ports or up to 144 MPO ports
EHD-4U	EHD-4U	SYSTIMAX EHD 4U sliding tray fiber panel, accepts (24) EHD ULL modules, splice cassettes or MPO panels, providing up to 288 duplex LC ports or up to 288 MPO ports
EHD-CMB	EHD-CMB	EHD external cable management cabinet mounting bracket
EHD-CMB-GAB	EHD-CMB-GAB	EHD external cable management cabinet mounting bracket for trunk gland adapters
760238380	EHD-BK-2U	EHD splice cassette blocking kit for 2RU panel
760238381	EHD-BK-4U	EHD splice cassette blocking kit for 4RU panel

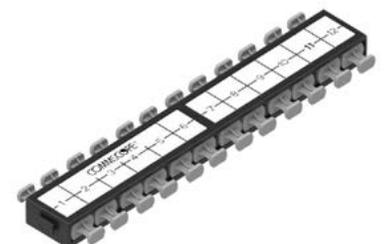
EHD RIBBON SPLICE MODULE

ORDERING INFORMATION		
MATERIAL ID	PRODUCT CODE	DESCRIPTION
760237942	EHD-SP-24LC-SMR-AS-ULL	EHD ULL 24f LC UPC ribbon pigtail splice cassette SM Method A polarity
760238932	EHD-SP-24LC-SMR-B-ULL	EHD ULL 24f LC UPC ribbon pigtail splice cassette SM, Enhanced Method B polarity



SYSTIMAX EHD MPO ADAPTER PACK

ORDERING INFORMATION		
MATERIAL ID	PRODUCT CODE	DESCRIPTION
760235622	EHD12-DP-12MPO-ALL-B	EHD MPO Adapter Panel, 12 x MPO



EHD Pre-Stubbed Fiber Panels

EHD panels are also available with pre-stubbed rollable ribbon fiber cables. This allows MTDC operators to deploy high bandwidth circuits quickly and reliably, reducing installation time and maximizing time-to-service.

The pre-stubbed pay out provides a reliable and efficient deployment tool for high speed backbone links in data centers, especially in building entrances and “meet-me” areas. The need to individually plug in hundreds of connectors at the rear of the panel is eliminated, and the associated issues with cable mapping and the risk of connector damage are greatly reduced. Installers simply reel out cable from the free end and splice to large fiber count outside plant or indoor backbone cables. At the bulkhead, high-performance LC connectors are factory terminated to the cable. These craft-friendly cable assemblies come preassembled and factory tested, allowing for more uniformity of installation practices. The pre-stubbed EHD allows customers to meet demands for increasing bandwidth and more connections in a timely, cost-effective manner while reducing optical loss.



AVAILABLE IN LC CONNECTIVITY	
Customizable length:	Assemblies can be ordered in discrete lengths of 25m to 400m - in 25m increments starting at 25m
Cable Type:	1RU - dual rated, indoor/outdoor, OS2 single mode 2RU - dual rated indoor/outdoor, OS2 single mode
Fiber Type:	1RU - OS2 single mode - G.657.A2/B2 2RU - OS2 single mode - G.657.A2/B2
144 Fiber Cable Diameter:	6.10 mm, 0.41 inches
288 Fiber Cable Diameter:	12.50 mm, 0.49 in
Chassis dimensions:	18.34" D x 17.43" W at the chassis (19.00" W with mounting brackets) x 1.75" H per RU
SM LC UPC PERFORMANCE	
Insertion Loss (dB Maximum):	0.35
Return Loss (dB Minimum):	50

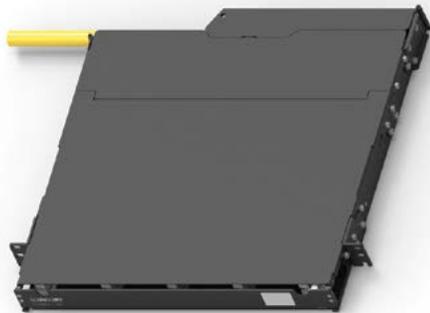
EHD Pre-Stubbed Fiber Panels - Ordering Information

PART NUMBER	DESCRIPTION
HCC0-1ADDL0AxxxM	1RU Pre-stubbed Patch Panel with SM LC UPC Adapter and 144f I/O, Riser/LSZH cable, right cable entry
HCD0-1ADDL0AxxxM	1RU Pre-stubbed Patch Panel with SM LC UPC Adapter and 144f I/O, Riser/LSZH cable, left cable entry
HCC0-2BDDL0AxxxM	2RU Pre-stubbed Patch Panel with SM LC UPC Adapter and 288f I/O, Riser/LSZH cable, right cable entry
HCD0-2BDDL0AxxxM	2RU Pre-stubbed Patch Panel with SM LC UPC Adapter and 288f I/O, Riser/LSZH cable, left cable entry

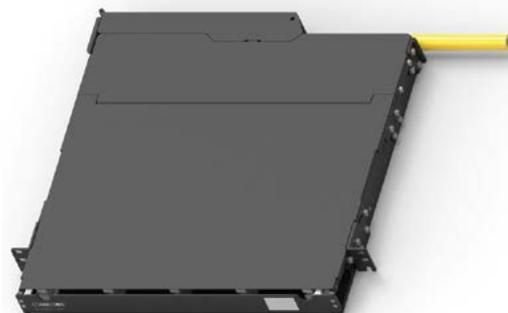
xxx - Denotes cable length in meters (lengths from 25m, and in 25m increments thereafter to 400m)

Please see information on our [Building Entrance Facility Solutions](#) options for highly engineered and simplified splicing options.

Cable Entry: The left or right cable entry designation is determined by viewing the panel from the front side.



Left cable entry



Right cable entry

Standard Density (SD) Fiber Splice Panel Solution

In some instances, MTDC tenants will require direct high-fiber count connectivity from another building or cage to extend the physical layer of their network. The SD splice panel allow for rack-mounted splicing between two directly connected cages in the same building or between an MTDC owned cage. This panel supports up to 1728 ribbon fiber cable with breakout accessories and 288 fiber splice tray.



SD 4U Panel

SD FIBER SPLICE PANEL			
DESCRIPTION	DIMENSIONS (HXWXD)	PART DESCRIPTOR	PART NUMBER
SD Fiber Splice Panel Accepts up to (6) 288-fiber FOST splice trays Providing up to 1728 mass fusion splices	7.0" x 19.0" x 19.10" (177.80 x 482.60 x 485.14 mm)	SD-4U-SPLICE	760242725

SPLICE TRAY AND ACCESSORIES			
DESCRIPTION	PART DESCRIPTOR	PART NUMBER	
Ribbon Fiber Splice Tray 288 fibers per tray	FOST-ACC-C-TRAY-RIBN-24	760241731	
Fiber Optic Ribbon Breakout Kit High Density 1:3, 288-fiber in - 96-fiber x 3 out	NG4-CBOUT-288	NG4-CBOUT-288	



SD Fiber Splice Panel



FOST Fiber Splice Tray



Fiber Optic Ribbon Breakout Kit

Rollable Ribbon Pre-terminated Fiber Trunks

MPO TO STUB TRUNK - INDOOR ROLLABLE RIBBON CABLES			
DESCRIPTION	FIBER TYPE	FIBER COUNT (12-FIBER SUBUNITS)	MATERIAL ID
MPO-12 ULL Trunk Cables - MPO Male to Stub End OS2 Singlemode, 33" standard breakout			
Indoor Rollable Ribbon Yellow	LSZH (CPR Class B2) / Riser with Gland	144-Fiber	U3GMXUCRM-JBMxxx
	LSZH (CPR Class B2) / Riser with Gland and Pulling Grip	144-Fiber	U3GMXUCRM-JCMxxx
	LSZH (CPR Class C) / Riser with Gland	864-Fiber	UJGMXUCRX-JBMxxx
		576-Fiber	UJGMXUCRW-JBMxxx
		432-Fiber	UJGMXUCRV-JBMxxx
		288-Fiber	UJGMXUCRP-JBMxxx
		144-Fiber	UJGMXUCRM-JBMxxx
	LSZH (CPR Class C) / Riser with Gland and Pulling Grip	864-Fiber	UJGMXUCRX-JCMxxx
		576-Fiber	UJGMXUCRW-JCMxxx
		432-Fiber	UJGMXUCRV-JCMxxx
		288-Fiber	UJGMXUCRP-JCMxxx
		144-Fiber	UJGMXUCRM-JCMxxx
	Plenum with Gland	288-Fiber	UGGMXUCRP-JBMxxx
		144-Fiber	UGGMXUCRM-JBMxxx
	Plenum with Gland	288-Fiber	UGGMXUCRP-JCMxxx
		144-Fiber	UGGMXUCRM-JCMxxx

Note: Length in meters; replace xxx with desired length (ex. U3GMXUCRV-JBM050 = 50 meters)
Gland located on terminated MPO end. Pulling grip (if ordered) located on stub end.

MPO TO MPO TRUNK - INDOOR ROLLABLE RIBBON CABLES				
DESCRIPTION	FIBER TYPE	FIBER COUNT (12-FIBER SUBUNITS)	MATERIAL ID	CABLE DIAMETER
MPO-12 ULL Trunk Cables - MPO Pinned to MPO Pinned OS2 Singlemode, 33" standard breakout				
Indoor Rollable Ribbon Yellow	LSZH (CPR Class B2) / Riser with Gland	144-Fiber	U3GMXMXRM-JBMxxx	10.50 mm 0.41 in
	LSZH (CPR Class B2) / Riser with Gland and Pulling Grip	144-Fiber	U3GMXMXRM-JCMxxx	10.50 mm 0.41 in
	LSZH (CPR Class C) / Riser with Gland	864-Fiber	UJGMXMXRX-JBMxxx	19.50 mm 0.77 in
		576-Fiber	UJGMXMXRW-JBMxxx	17.00 mm 0.67 in
		432-Fiber	UJGMXMXRV-JBMxxx	15.50 mm 0.61 in
		288-Fiber	UJGMXMXRP-JBMxxx	12.50 mm 0.49 in
		144-Fiber	UJGMXMXRM-JBMxxx	10.50 mm 0.41 in
	LSZH (CPR Class C) / Riser with Gland and Pulling Grip	864-Fiber	UJGMXMXRX-JCMxxx	19.50 mm 0.77 in
		576-Fiber	UJGMXMXRW-JCMxxx	17.00 mm 0.67 in
		432-Fiber	UJGMXMXRV-JCMxxx	15.50 mm 0.61 in
		288-Fiber	UJGMXMXRP-JCMxxx	12.50 mm 0.49 in
		144-Fiber	UJGMXMXRM-JCMxxx	10.50 mm 0.41 in
	Plenum with Gland	288-Fiber	UGGMXMXRP-JBMxxx	12.10 mm 0.48 in
		144-Fiber	UGGMXMXRM-JBMxxx	9.60 mm 0.38 in
	Plenum with Gland	288-Fiber	UGGMXMXRP-JCMxxx	12.10 mm 0.48 in
		144-Fiber	UGGMXMXRM-JCMxxx	9.60 mm 0.38 in

Note: Length in meters; replace xxx with desired length (ex. UJGMXMXRX-JBM150 = 150 meters)
Gland located on both ends of trunk assembly. Pulling grip (if ordered) located on one end.

Rollable Ribbon Pre-terminated Fiber Trunks

MPO TO STUB TRUNK - INDOOR/OUTDOOR ROLLABLE RIBBON CABLE				
DESCRIPTION	FIBER TYPE	FIBER COUNT (12-FIBER SUBUNITS)	MATERIAL ID	CABLE DIAMETER
MPO-12 ULL Trunk Cables - MPO Pinned to Stub End OS2 Singlemode, LSZH (CPR Class C) / Riser 33" standard breakout				
Indoor/Outdoor Central Tube Rollable Ribbon Black	Non-Armored with Gland	864-Fiber	UJGMXUCSX-HBMxxx	19.50 mm 0.77 in
		576-Fiber	UJGMXUCSW-HBMxxx	17.00 mm 0.67 in
		432-Fiber	UJGMXUCSV-HBMxxx	15.50 mm 0.61 in
		288-Fiber	UJGMXUCSP-HBMxxx	12.50 mm 0.49 in
		144-Fiber	UJGMXUCSM-HBMxxx	10.50 mm 0.41 in
	Non-Armored with Gland and Pulling Grip	864-Fiber	UJGMXUCSX-HCMxxx	19.50 mm 0.77 in
		576-Fiber	UJGMXUCSW-HCMxxx	17.00 mm 0.67 in
		432-Fiber	UJGMXUCSV-HCMxxx	15.50 mm 0.61 in
		288-Fiber	UJGMXUCSP-HCMxxx	12.50 mm 0.49 in
		144-Fiber	UJGMXUCSM-HCMxxx	10.50 mm 0.41 in
	Armored with Gland	864-Fiber	UKGMXUCSX-HBMxxx	28.10 mm 1.11 in
		576-Fiber	UKGMXUCSW-HBMxxx	25.50 mm 1.00 in
		432-Fiber	UKGMXUCSV-HBMxxx	24.30 mm 0.96 in
		288-Fiber	UKGMXUCSP-HBMxxx	20.50 mm 0.81 in
		144-Fiber	UKGMXUCSM-HBMxxx	19.20 mm 0.76 in
	Armored with Gland and Pulling Grip	864-Fiber	UKGMXUCSX-HCMxxx	28.10 mm 1.11 in
		576-Fiber	UKGMXUCSW-HCMxxx	25.50 mm 1.00 in
		432-Fiber	UKGMXUCSV-HCMxxx	24.30 mm 0.96 in
		288-Fiber	UKGMXUCSP-HCMxxx	20.50 mm 0.81 in
		144-Fiber	UKGMXUCSM-HCMxxx	19.20 mm 0.76 in

Note: Length in meters; replace xxx with desired length (ex. UJGMXUCSX-HBM050 = 50 meters)
Gland located on terminated MPO end. Pulling grip (if ordered) located on stub end.

Rollable Ribbon Pre-terminated Fiber Trunks

MPO TO MPO TRUNK - INDOOR/OUTDOOR ROLLABLE RIBBON CABLE				
DESCRIPTION	FIBER TYPE	FIBER COUNT (12-FIBER SUBUNITS)	MATERIAL ID	CABLE DIAMETER
MPO-12 ULL Trunk Cables - MPO Pinned to MPO Pinned OS2 Singlemode, LSZH (CPR Class C) / Riser 33" standard breakout				
Indoor/Outdoor Central Tube Rollable Ribbon Black	Non-Armored with Gland	864-Fiber	UJGMXMXSX-HBMxxx	19.50 mm 0.77 in
		576-Fiber	UJGMXMXSW-HBMxxx	17.00 mm 0.67 in
		432-Fiber	UJGMXMXSV-HBMxxx	15.50 mm 0.61 in
		288-Fiber	UJGMXMXSP-HBMxxx	12.50 mm 0.49 in
		144-Fiber	UJGMXMXSM-HBMxxx	10.50 mm 0.41 in
	Non-Armored with Gland and Pulling Grip	864-Fiber	UJGMXMXSX-HCMxxx	19.50 mm 0.77 in
		576-Fiber	UJGMXMXSW-HCMxxx	17.00 mm 0.67 in
		432-Fiber	UJGMXMXSV-HCMxxx	15.50 mm 0.61 in
		288-Fiber	UJGMXMXSP-HCMxxx	12.50 mm 0.49 in
		144-Fiber	UJGMXMXSM-HCMxxx	10.50 mm 0.41 in
	Armored with Gland	864-Fiber	UKGMXMXSX-HBMxxx	28.10 mm 1.11 in
		576-Fiber	UKGMXMXSW-HBMxxx	25.50 mm 1.00 in
		432-Fiber	UKGMXMXSV-HBMxxx	24.30 mm 0.96 in
		288-Fiber	UKGMXMXSP-HBMxxx	20.50 mm 0.81 in
		144-Fiber	UKGMXMXSM-HBMxxx	19.20 mm 0.76 in
	Armored with Gland and Pulling Grip	864-Fiber	UKGMXMXSX-HCMxxx	28.10 mm 1.11 in
		576-Fiber	UKGMXMXSW-HCMxxx	25.50 mm 1.00 in
		432-Fiber	UKGMXMXSV-HCMxxx	24.30 mm 0.96 in
		288-Fiber	UKGMXMXSP-HCMxxx	20.50 mm 0.81 in
		144-Fiber	UKGMXMXSM-HCMxxx	19.20 mm 0.76 in

Note: Length in meters; replace xxx with desired length (ex. UKGMXMXSX-HCM050 = 50 meters)
Gland located on both ends of trunk assembly. Pulling grip (if ordered) located on one end.

Installation Accessories for Cables and Splicing

Advances in parallel optics have changed the connector types for transceivers moving toward 40GbE transmission requiring MPO connectors in the channel. Field spliceable MPO connectors allow for MPO connectivity with RR cable through spaces that would otherwise be too small to pass a pre-terminated cable through.



FIBER QWIK FIELD-INSTALLED MPO CONNECTOR		
MATERIAL ID	PRODUCT CODE	DESCRIPTION
760163949	SFC-12MP-8SP-30-GR	TeraSPEED® Fiber QWIK MPO/APC, UNPINNED Connector™, field installable, fusion splice, angled, single-mode, green
760163931	SFC-12MX-8SP-30-GR	TeraSPEED® Fiber QWIK MPO/APC, PINNED Connector™, field installable, fusion splice, angled, single-mode, green

ACCESSORIES

Kits include the following components: furcation tubing/labels, adhesive foil wrap, heat shrink tubing, alcohol wipes, Loctite, mesh gland retainer/clip, base, cover, fiber retainer clip and mesh sleeving. 144-Fiber kit also includes spacer.

FIELD FURCATION KITS		
MATERIAL ID	PRODUCT CODE	DESCRIPTION
Field Furcation Kits Used to prepare bulk fiber cable for field terminated connectors For use with rollable ribbon cable, 12-fiber/ribbon, 12-fiber/tube		
760239284	BLK-ROLB-A12-144	144-Fiber Cable
760239285	BLK-ROLB-A24-288	288-Fiber Cable
760239286	BLK-ROLB-A36-432	432-Fiber Cable
760239287	BLK-ROLB-A48-576	576-Fiber Cable
760239288	BLK-ROLB-A72-864	864-Fiber Cable



Kits include the following components: mounting bracket, heat shrink tubing, armor fitting and ground cable.

ARMORED CABLE GROUNDING KITS		
MATERIAL ID	PRODUCT CODE	DESCRIPTION
Cable Grounding Kits Used with field furcation kits to ground armored cables when preparing bulk armored cable for field terminated		
760239332	BLK-ARMOR-12/24/48/72/144	For 12-, 24-, 48-, 72- and 144-Fiber
760239331	BLK-ARMOR-96	For 96F Rollable Ribbon Cables
760239333	BLK-ARMOR-288	For 288-Fiber
760239334	BLK-ARMOR-432	For 432-Fiber
760239335	BLK-ARMOR-576/864	For 576- and 864-Fiber
700025513	12A1 CLAMP	Grounding Clamp Kit, metallic sheath cable
GK-SUNV		Universal Grounding Kit for 1/4 in through 5/8 in cables



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