

# Rollable Ribbon cables – Ordering guide

COMMScope®

# Table of contents

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- CommScope Rollable Ribbon Fiber Solutions Overview..... 3
- Rollable Ribbon Technology Overview..... 4
- Rollable Ribbon Fiber Cable Solutions ..... 5
  - Indoor (ISP) Cables..... 5
  - Indoor/Outdoor (I/O) Cables ..... 6
  - Multimode Rollable Ribbon Cables..... 7
  - Outside Plant (OSP) Cables ..... 8

# CommScope Rollable Ribbon Fiber Solutions Overview

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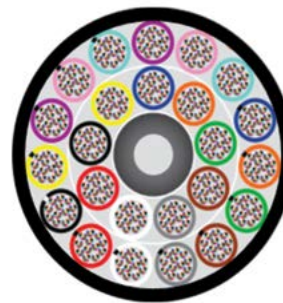
Advances in technology have enabled the data center industry to keep ahead of the insatiable demand for more capacity and bandwidth. Faster processors, higher density storage and high-speed, more cost-effective connectivity have been key contributors to this success.

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 fiber technology – offering operators and their clients faster time-to-service and better utilization of valuable space in the data center.



Rollable ribbon fiber cable

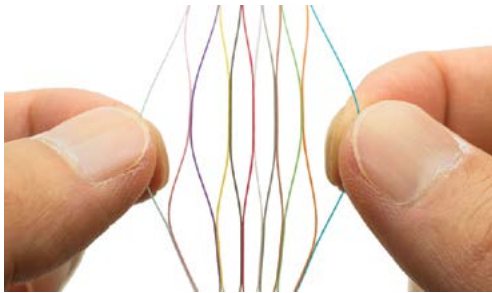


Flat ribbon fiber cable



# 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

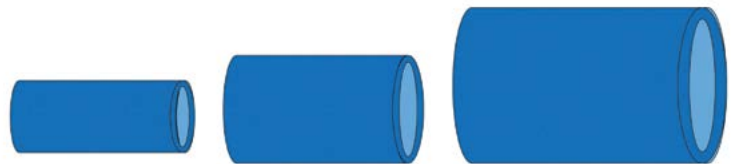


Conventional Flat Ribbon matrix  
(side view and top view)

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.



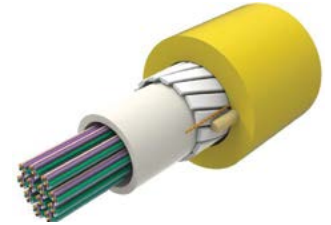
MAX FIBER COUNT	1 in (2.5 cm) duct	1 1/4 in. (3.2 cm) duct	2 in. (5 cm) duct
FLAT RIBBON	432	864	1728
ROLLABLE RIBBON	864	1728	3456

# Rollable Ribbon Fiber Cable Solutions

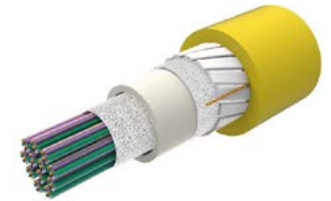
## SINGLE-MODE ROLLABLE RIBBON FIBER CABLE

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



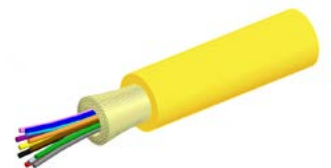
INDOOR/OUTDOOR ALL-DIELECTRIC OFNR AND LSZH CENTRAL TUBE CABLE 200UM				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
144	G.657.A2/B2	760245282	Z-144-CN-RR-F12BK/8G1/99L/200/C	9.10 mm   0.35 in
288	G.657.A2/B2	760245283	Z-288-CN-RR-F12BK/8G1/99L/200/C	12.50 mm   0.49 in
432	G.657.A2/B2	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



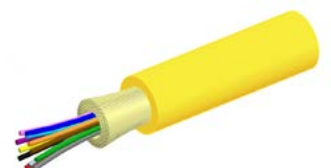
INDOOR/OUTDOOR INTERLOCKING ARMORED OFNR AND LSZH CENTRAL TUBE CABLE 250UM				
FIBER COUNT	ITU FIBER TYPE	MID	PRODUCT CODE	OUTSIDE DIAMETER
144	G.657.A2/B2	760239048	Z-144-CZ-RR-F12BK/8G1/99G/B2	19.20mm   0.76in
288	G.657.A2/B2	760248083	Z-288-CZ-RR-F12BK/8G1/99G/B2	20.50mm   0.81in
432	G.657.A2/B2	760248084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



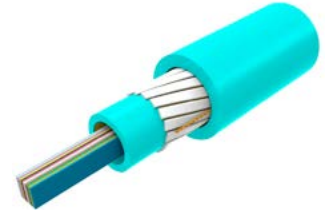
INDOOR/OUTDOOR OFNR LSZH MP CABLES 250UM			
FIBER COUNT	MID	PRODUCT CODE	OUTSIDE DIAMETER
12	760256410	Z-012-MP-RR-F30BK/8G1/99K/C	3.00 mm   0.12 in
24	760256411	Z-024-MP-RR-F12BK/8G1/99N/C	5.88 mm   0.23 in
48	760256412	Z-048-MP-RR-F12BK/8G1/99N/C	6.60 mm   0.26 in
72	760253914	Z-072-MP-RR-F12BK/8G1/99N/C	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
3456	G.652.D and G.657.A1	760239390	D-3456-LN-RR-F12NS/8Z/99H	35.00 mm   1.38 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





CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement.

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