

Rollable ribbon OSP fiber cable portfolio



With the new rollable ribbon fiber cable portfolio, CommScope offers one of the industry's most innovative technologies specially designed to solve today's challenging needs for increased density and reduced footprint in applications ranging from data centers to FTTX distribution hubs and access network closures and terminals.

The rollable ribbon fiber cable portfolio meets the most rigorous optical and mechanical industry standards for outside plant fiber optic cables, ensuring reliable performance regardless of the environmental conditions or placement in confined and tight spaces.

In addition, a completely gel-free design helps reduce the time required to prepare for splicing, therefore reducing labor costs.

Features and benefits

- Ultra-high fiber density with reduced footprint and weight
- 2X fiber density (more fiber and less space) versus flat ribbon designs
- Reduced weight by 35% or more
- Rollable ribbon cable with standard loose tube series is available in 432, 576, 864, and 1728 fiber counts
- Rollable ribbon cable with central tube series is available in 144, 288 and 432 fiber counts
- Standard ribbon print marking with blocks and bars for ease of identification
- Optimized for fast, cost-effective mass splicing
- Reduced splicing prep time by up to 80% (over traditional gel-filled ribbon cable designs)
- Completely gel-free design
- Meets GR-20 Issue 4 and ANSI/CEA S-87-640



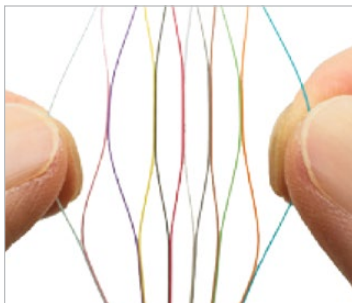
Rollable ribbon fiber cable central tube series



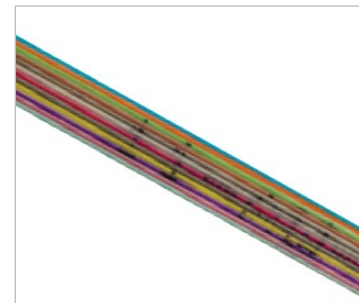
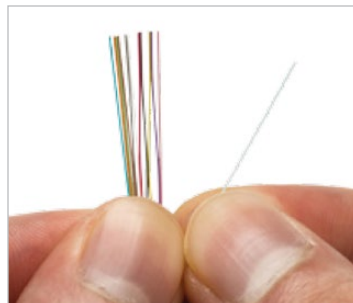
Rollable ribbon fiber cable standard loose tube series

Description

The rollable ribbon cable design is based on individual 250 μm fibers that are partially bonded to each other at predetermined points. Smaller distances between fiber attachment locations provides flatter, more controllable ribbons during splicing versus other collapsible ribbon designs. Color coded buffer tubes and numbered, striped ribbons are more easily identified. G.657.A1 fiber provides excellent bending performance with seamless splicing to the installed base of fibers.



Standard loose tube series



Rollable ribbon fiber cable

Rollable ribbon fiber cable central tube series

Performance and environmental specifications

Specifications										
	Dielectric versions					Armored versions				
Fiber Count	96	144	288	432	864	96	144	288	432	864
Cable outer diameter – in. (mm)	.50 (12.6)	.50 (12.6)	.55 (13.9)	.65 (16.5)	.78 (19.8)	.47 (12.0)	.47 (12.0)	.55 (14.0)	.64 (16.3)	.81 (20.6)
Cable weight – lb/kft (kg/km)	71 (106)	71 (106)	101 (150)	126 (186)	163 (243)	107 (159)	107 (159)	137 (204)	157 (234)	228 (340)
Handling (all fiber counts)										
Maximum bend radius, with load	15 x OD (outer diameter)									
Maximum bend radius, with no load	15 x OD									
Maximum bend radius, storage coils	15 x OD									
Maximum rated cable load (MRCL)	600 lb. (2700 N)									
Maximum long-term load	180 lb. (800 N)									
Temperature	Installation	-22 to 140 °F (-30 to 70 °C)								
	Operation	-40 to 158 °F (-40 to 70 °C)								
	Storage	-40 to 167 °F (-40 to 75 °C)								
Performance standards (all fiber counts)										
Tested per applicable requirements of ANSI/ICEA-S-87-640 and Telcordia GR-20 CORE Issue 4.										

Dry Core Rollable Ribbon Cable with Dielectric Sheath



Rollable ribbon fiber cable central tube dielectric

Dry Core Rollable Ribbon Cable with Metallic Sheath



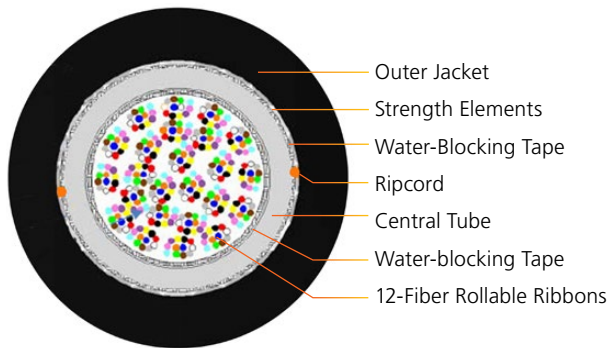
Rollable ribbon fiber cable central tube armored

Rollable ribbon fiber cable central tube series

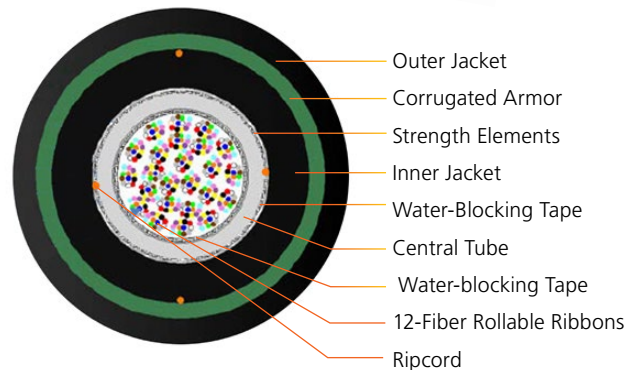
Performance and environmental specifications

Specifications					
		Dielectric versions		Armored versions	
Fiber Count		144	288	144	288
Cable outer diameter – in. (mm)		0.39 (10)	0.47 (12)	0.57 (14.5)	0.65 (16.5)
Cable weight – lb/kft (kg/km)		55 (82)	77 (115)	127 (189)	163 (243)
Handling (all fiber counts)					
Maximum bend radius, with load		15 x OD (outer diameter)			
Maximum bend radius, with no load		15 x OD			
Maximum bend radius, storage coils		15 x OD			
Maximum rated cable load (MRCL)		600 lb. (2700 N)			
Maximum long-term load		180 lb. (800 N)			
Temperature	Installation	-22 to 140 °F (-30 to 70 °C)			
	Operation	-40 to 158 °F (-40 to 70 °C)			
	Storage	-40 to 167 °F (-40 to 75 °C)			
Performance standards (all fiber counts)					
Tested per applicable requirements of ANSI/ICEA-S-87-640 and Telcordia GR-20 CORE Issue 4.					

Rollable ribbon fiber cable central tube dielectric



Rollable ribbon fiber cable central tube armored



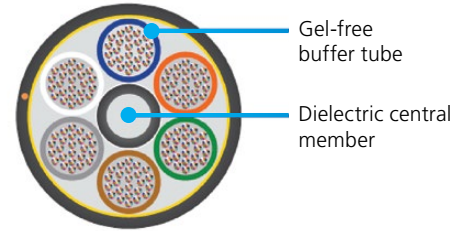
Rollable ribbon fiber cable standard loose tube series

Performance and environmental specifications

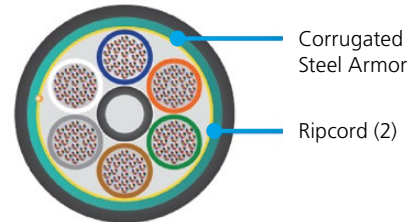
Application			
Dielectric construction			
Fiber count	432	576-864	1728
Number of fibers per tube	72	144	288
Cable outer diameter – in. (mm)	0.66 (16.8)	0.82 (21)	0.99 (25.1)
Cable Weight – lb/kft (kg/km)	141 (210)	212 (315)	310 (460)
Buffer tube diameter – in. (mm)	0.18 (4.5)	0.24 (6.0)	0.28 (7.0)
Recommended duct size	1 in.	1 in.	1 1/4 in.
Metallic construction			
Fiber count	432	576-864	1728
Number of fibers per tube	72	144	288
Cable outer diameter – in. (mm)	0.73 (18.6)	0.82 (23.2)	1.05 (26.8)
Cable Weight – lb/kft (kg/km)	195 (290)	281 (418)	366 (545)
Buffer tube diameter – in. (mm)	0.18 (4.5)	0.24 (6.0)	0.30 (7.0)
Recommended duct size	1 in.	1 in.	1 1/4 in.
Handling (all fiber counts)			
Minimum bend radius, with load	15 x OD (outer diameter)		
Minimum bend radius, with no load	15 x OD		
Minimum bend radius, storage coils	15 x OD		
Rated installation load	1000 lb. (4448 N)		
Maximum long-term load	333 lb. (1481 N)		
Performance standards (all fiber counts)			
Tested per applicable requirements of ANSI/ICEA-S-87-640 and Telcordia GR-20 CORE Issue 4.			
Temperature (all fiber counts)			
Installation	-22 to 140 °F (-30 to 60 °C)		
Operation	-40 to 158 °F (-40 to 70 °C)		
Storage	-40 to 167 °F (-40 to 75 °C)		

Number of Fibers per tube

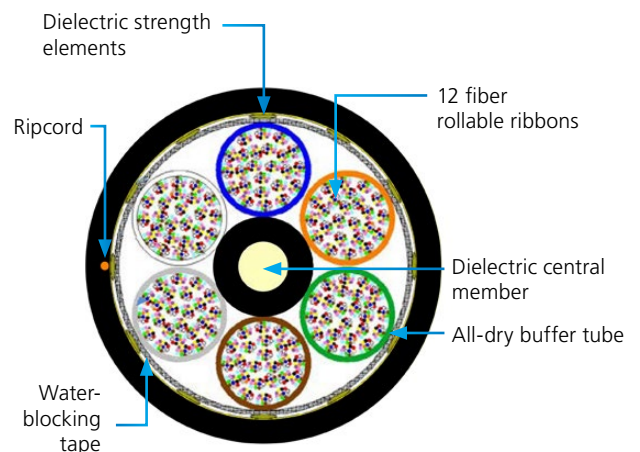
432	576-864	1728
72	144	288



432-1728 Fiber dielectric cable cross-section



432-1728 Fiber metallic cable cross-section



1728 Fiber dielectric cable cross-section

Ordering information

Rollable ribbon fiber cable portfolio		
Fiber Count	Central tube	
	Non-armored	Armored
96	D-096-CN-RR-F12NS/8W/99A	D-096-CA-RR-F12NS/8W/99A
144	D-144-CN-RR-F12NS/8W/99A	D-144-CA-RR-F12NS/8W/99A
288	D-288-CN-RR-F12NS/8W/99A	D-288-CA-RR-F12NS/8W/99A
432	D-432-CN-RR-F12NS/8W/99A	D-432-CA-RR-F12NS/8W/99A
864	D-864-CN-RR-F12NS/8W/99A	D-864-CA-RR-F12NS/8W/99A
Fiber Count	Central tube	
	Non-armored	Armored, double jacket
144	D-144-CN-RR-F12NS/8W/99G	D-144-C2-RR-F12NS/8W/99J
288	D-288-CN-RR-F12NS/8W/99G	D-288-C2-RR-F12NS/8W/99J
Fiber Count	Stranded Loose Tube	
	Non-armored	Armored
432	D-432-LN-RR-F12NS/8W/99H	D-144-LA-RR-F12NS/8W/99H
576	D-576-LN-RR-F12NS/8W/99H	D-576-LA-RR-F12NS/8W/99H
864	D-864-LN-RR-F12NS/8W/99H	D-864-LA-RR-F12NS/8W/99H
1152	D-1152-LN-RR-F12NS/8W/99H	D-1152-LA-RR-F12NS/8W/99H
1440	D-1440-LN-RR-F12NS/8W/99H	D-1440-LA-RR-F12NS/8W/99H
1728	D-1728-LN-RR-F12NS/8W/99H	D-1728-LA-RR-F12NS/8W/99H

CommScope E-Catalog [CLICK HERE](#). Additional product information, installation instructions and videos are available.

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