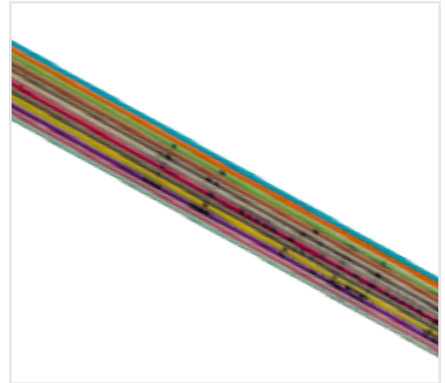
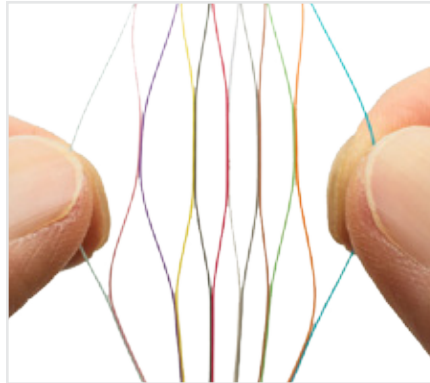
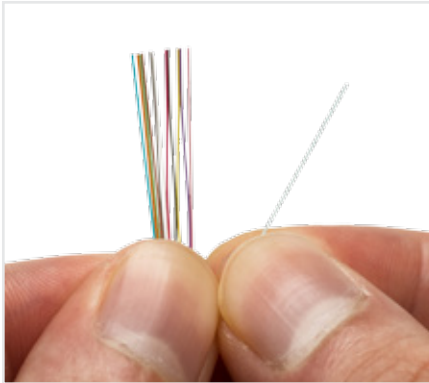




AccuTube® + Rollable Ribbon (RR) Fiber Optic Cable



AccuTube+ RR Cable was created specifically to maximize duct utilization for ultra-high fiber count applications. Cables with rollable ribbons are smaller and lighter weight than conventional flat ribbon cables. These cable designs allow installers to double the density of existing pathways vs. standard cable designs.

AccuTube+ RR Cable features rollable ribbon technology, the newest optical fiber ribbon design from OFS. To form these ribbons, 250 μ m fibers are partially bonded to each other at intermittent points. This design not only enables mass fusion ribbon splicing but individual fiber breakout is also easier than with flat ribbons. These ribbons can be rolled and routed similarly to individual fibers to facilitate use in smaller closures and splice trays.

The completely gel-free design also helps to reduce the time required for preparation for splicing.

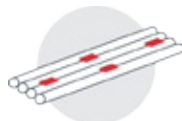
With its ability to maximize duct utilization, the AccuTube+ RR Cable is an ideal choice for connecting data centers, and serving as distribution for dense FTTx or mobile networks.



Maximizes
Duct
Utilization



Smaller,
Lighter
Weight



Enables Mass
Fusion Splicing



Easily Rolled
and Routed






Reduces
Prep Time



Why AccuTube®+ RR Versus Flat Ribbon Cables

Rollable Ribbons Enable **2X Fiber Density** (More Fiber, Less Space)
Enables Double the Fiber In a Given Duct Size

			
Max Fiber Count	1" Duct	1 ¼" Duct	2" Duct
Flat Ribbon	432	864	1728
Rollable Ribbon	864	1728	3456



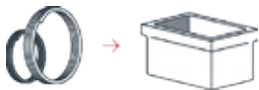
AccuTube Rollable Ribbon Cable



AccuRibbon® LXE-DE Cable

VS.

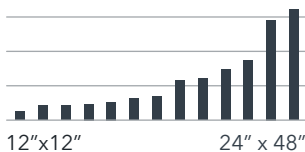
Other Benefits of Higher Density and Smaller Size



Smaller Diameters =
Smaller Coils and
Handholes

Small Handholes are
Less Expensive

HANDHOLE COST VS. SIZE



Smaller Cables can
Enable **Longer Lengths**
on a Reel

Longer Lengths can
**Reduce the Number
of Splice Points and
Splicing Costs**

Longer Lengths and
Lighter Cables Can
Reduce Shipping Costs

Rollable Ribbons Can
Enable Use of Smaller
Splice Trays, **Increasing
Closure Density**

Gel-Free Tubes and Ribbon in Loose Tube Core Structure **Helps Reduce Installation, Cable Prep and Splicing Costs**

Reduce Weight By:



Lower Tensions and
Longer Underground
Installation Pulls

Longer Distances
Between Pulling or
Blowing Handholes

Faster Installations

Lighter Loads on Poles

Reduce Splicing
Prep Time By:



Cost Savings
Opportunities
(Materials and Labor)

Higher Possible
Splicing Yields

Faster
Cable Preparation

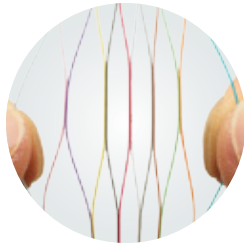
Why AccuTube®+ RR Versus Other Rollable Ribbon Designs

Ultra-high fiber count cables are expensive and attention to detail is very important.

Below are advantages of AccuTube+ RR cables by installation process.

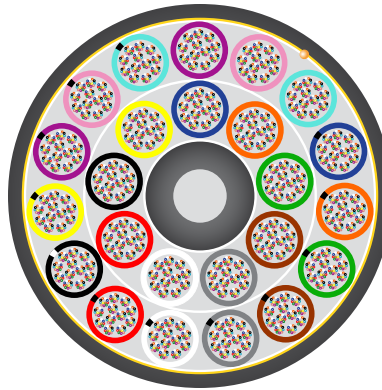
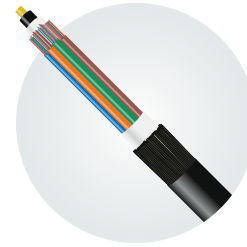
CABLE PULLING

- Ribbon in loose tube is a 15+ year field-proven design familiar to installation personnel
- No preferential bending plane versus linear strength element designs enables easier coiling, handling and slack management
- Less concern about jacket damage after pulling versus slotted core designs
- More layers of fiber protection versus wrapping tube cable designs
- All-dielectric - no bonding or grounding needed



CABLE PREP FOR SPLICING

- Ribbon in loose tube design provides easier ribbon and mid-span access than either slotted core or wrapping tube cable designs
- Loose tubes provide additional protection to fibers during preparation process - less likely to nick or cut fibers during cable stripping versus other cable designs
- Fibers are grouped in color coded dry buffer tubes, making splicing and mid-span access easier versus string binder groups



SPLICING AND TESTING

- Smaller distance between fiber attachment locations provides flatter, more controllable ribbons during splicing versus competitive rollable ribbon designs
- Color coded buffer tubes and numbered and striped ribbons are more easily identified
- Field proven and evaluated with closures from two vendors
- Features AllWave®+ Optical Fiber: $9.2 \pm 0.4 \mu\text{m}$ (1310 nm) and $10.4 \pm 0.5 \mu\text{m}$ (1550 nm) Mode Field Diameter provides G.657.A1 bending performance with seamless splicing to the installed base of fibers - fewer "gainers" than with other fiber types

LONG-TERM PERFORMANCE

- Fiber attachment locations in the rollable ribbons are formed by adding adhesive versus cutting away
- Cable manufactured in the USA - local support personnel and less likelihood of transportation issues

Specifications								
	Dielectric Construction				Metallic Construction			
Fiber Count	432	576-864	1728	3456	432	576-864	1728	
Cable Outer Diameter - in. (mm)	0.66 (16.8)	0.85 (21.6)	0.99 (25.1)	1.38 (35.0)	0.73 (18.6)	0.91 (23.2)	1.05 (26.8)	
Cable Weight - lb/kft (kg/km)	141 (210)	212 (315)	310 (460)	556 (828)	195 (290)	281 (418)	366 (545)	
Buffer Tube Diameter - in. (mm)	0.18 (4.5)	0.24 (6.0)	0.28 (7.0)	0.20 (5.0)	0.18 (4.5)	0.24 (6.0)	0.30 (7.0)	
Recommended Duct Size	1 in.	1 in.	1 1/4 in.	2 in.	1 in.	1 1/4 in.	1 1/2 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 Standard (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 °F to 140 °F (-30 °C to 60 °C)
Operation	-40 °F to 158 °F (-40 °C to 70 °C)
Storage	-40 °F to 167 °F (-40 °C to 75 °C)



For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-FIBER-HELP (1-888-342-3743) from inside the USA or +1-770-798-5555 from outside the USA. EMEA Specific: +49 (0) 228 7489 201

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