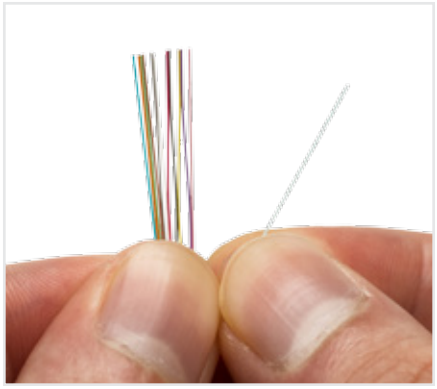
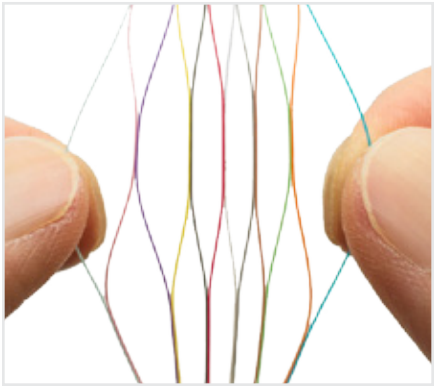
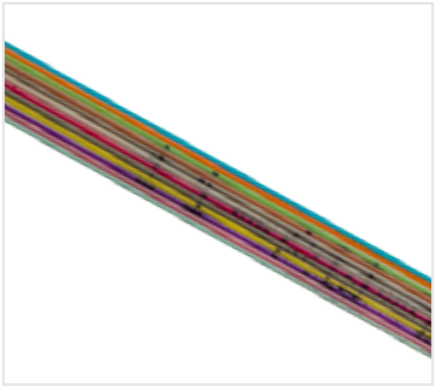
AccuTube®+ Rollable Ribbon (RR)
Fiber Optic Cable







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 µm 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.

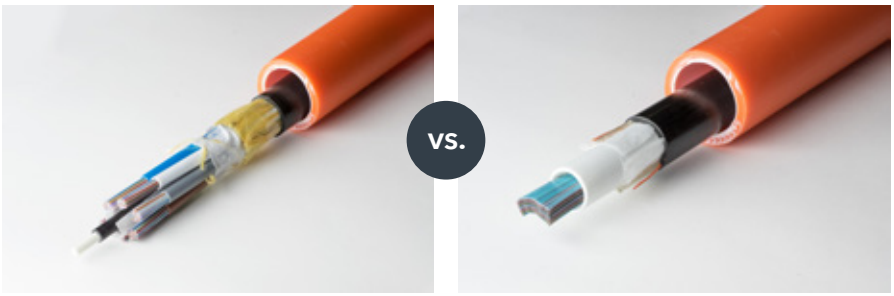
With its ability to maximize duct utilization, the AccuTube+ RR Cable is an ideal choice for connecting data centers, and serving as distribution for dense FTTx or mobile networks.

- 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

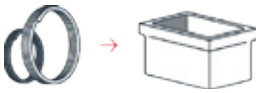

Max Fiber Count	1 ¼" Duct	2" Duct
Flat Ribbon	**864**	**1728**
Rollable Ribbon	**1728**	**3456**



AccuTube Rollable Ribbon Cable

AccuRibbon® LXE-DE Cable

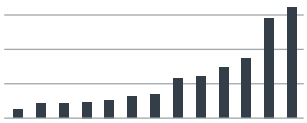
Other Benefits of Higher Density and Smaller Size



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**

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.

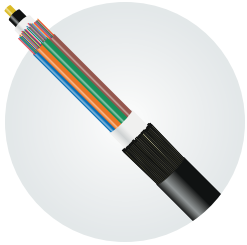
Below are advantages of AccuTube+ RR cables by installation process.

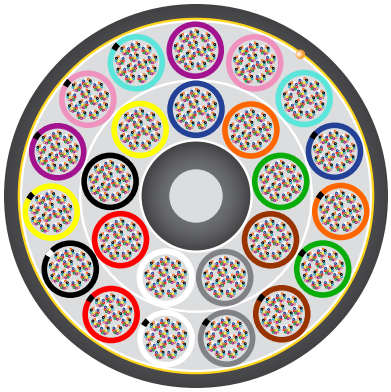
CABLE PULLING

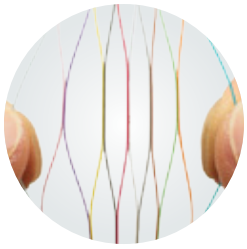
- Ribbon in loose tube is a 15+ year field-proven design familiar to installation personnel
- No preferential bending plane versus linear strength element designs enables easier coiling, handling and slack management
- Less concern about jacket damage after pulling versus slotted core designs
- More 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 curing 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 ± 0.4 µm (1310 nm) and 10.4 ± 0.5 µm (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

AccuTube®+ RR Fiber Optic Cable Specifications		
Fiber Count	1728	3456
Fiber Types Available	AllWave®+ Optical Fiber	AllWave+ Optical Fiber
Ribbon Fiber Count	12	12
Outer Diameter - in. (mm)	0.99 (25.1)	1.32 (33.5)
Cable Weight - lb/ft (kg/km)	285 (423.5)	524 (778)
Buffer Tube Diameter - in. (mm) and Fibers per Tube	0.3 (7) 288 Fibers per Tube	0.2 (5) 144 Fibers per Tube
Ribbon Type/Fiber Count per Buffer Tube	12 Fiber Ribbons, 288 Fibers per Tube	12 Fiber Ribbons, 144 Fibers per Tube
Ribbon Identification Method	Numbers and Stripes/Blocks	Numbers and Stripes/Blocks
Recommended Duct Size - in. (mm)	1.25 (32)	2 (51)
Minimum Bend Diameters (No Load, with Load, and Storage Coils) (30xOD - in. (mm))	29.7 (750)	39.6 (1005)
Maximum Rated Installation Load (Short-Term) - lbs. (N)	1000 (4448)	1000 (4448)
Maximum Long-Term Load - lbs. (N)	333 (1481)	333 (1481)
Performance Standards		
Meets or exceeds the mechanical and optical requirements of Telcordia GR-20 Issue 4 and ANSI/ICEA S-87-640 for outside plant fiber optic cables.		
Temperature		
Installation	-30 °F to 140 °F (-22 °C to 60 °C)	
Operation	-4 °F to 158 °F (-20 °C to 70 °C)	
Storage	-40 °F to 167 °F (-40 °C to 75 °C)	

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For additional information please contact your sales representative.

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