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.

Visit our website at www.ofsoptics.com
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

<table>
<thead>
<tr>
<th>Max Fiber Count</th>
<th>1” Duct</th>
<th>1 ¼” Duct</th>
<th>2” Duct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat Ribbon</td>
<td>432</td>
<td>864</td>
<td>1728</td>
</tr>
<tr>
<td>Rollable Ribbon</td>
<td>864</td>
<td>1728</td>
<td>3456</td>
</tr>
</tbody>
</table>

Other Benefits of Higher Density and Smaller Size

- Smaller Diameters = Smaller Coils and Handholes
- Small Handholes are Less Expensive

**Handhole Cost vs. Size**

12”x12” vs. 24”x48”

- 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: **35% or more**
- Reduce Splicing Prep Time By: **Up to 80%**
- Lower Tensions and Longer Underground Installation Pulls
- Longer Distances Between Pulling or Blowing Handholes
- Faster Installations
- Lighter Loads on Poles

Cost Savings Opportunities (Materials and Labor)
- Higher Possible Splicing Yields
- Faster Cable Preparation

Visit our website at [www.ofsoptics.com](http://www.ofsoptics.com)
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

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### Specifications

<table>
<thead>
<tr>
<th></th>
<th>Dielectric Construction</th>
<th>Metallic Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Count</td>
<td>432</td>
<td>576-864 1728 3456</td>
</tr>
<tr>
<td><strong>Cable Outer Diameter</strong> - in. (mm)</td>
<td>0.66 (16.8) 0.83 (21.0) 0.99 (25.1) 1.38 (35.0)</td>
<td>0.73 (18.6) 0.91 (23.2) 1.05 (26.8)</td>
</tr>
<tr>
<td><strong>Cable Weight</strong> - lb/kft (kg/km)</td>
<td>141 (210) 212 (315) 310 (460) 556 (828)</td>
<td>195 (290) 281 (418) 366 (545)</td>
</tr>
<tr>
<td><strong>Buffer Tube Diameter</strong> - in. (mm)</td>
<td>0.18 (4.5) 0.24 (6.0) 0.28 (7.0) 0.20 (5.0)</td>
<td>0.18 (4.5) 0.24 (6.0) 0.30 (7.0)</td>
</tr>
<tr>
<td><strong>Recommended Duct Size</strong></td>
<td>1 in. 1 in. 1 1/4 in. 2 in.</td>
<td>1 in. 1 1/4 in. 1 1/2 in.</td>
</tr>
</tbody>
</table>

**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)

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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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