AccuTube® Ribbon in Loose Tube Fiber Optic Cables
Ultra-High-Density Performance You Can Count On

Features
- Outstanding carrying capacity
- Multiple designs for high-growth, high-bandwidth applications
- Small nominal cable diameters
- Color-coded buffer tubes facilitate fiber management and identification
- Fiber counts up to 864

Benefits
- Efficient, cost-effective mass fusion splicing
- Added mechanical protection of optical fibers
- Ease of stripping and fiber breakout
- Rapid cable preparation and termination
- Simplifies access, handling and management of fibers and ribbons

Product Description
The AccuTube Ribbon in Loose Tube Cables are specifically designed for ultra-high-density, high-bandwidth networks. These 12-fiber ribbon cable designs facilitate efficient, cost-effective mass fusion splicing.

The AccuTube Single Jacket, Light Armor and Armored cable designs feature twelve, 12-fiber ribbons in each of six gel-filled buffer tubes. The Light Armor and Armored Cables offer greater durability for more demanding applications.

Why the AccuTube Cables?
With up to 864 fibers in a single cable*, AccuTube Cables offer exceptional carrying capacity for high-growth, high-bandwidth applications. These cables also facilitate easy fusion splicing, helping to simplify installation and save on labor costs.

The ultra-high-fiber-density AccuTube designs are more compact than standard central core ribbon cables. Even with 864 fibers, the AccuTube Single Jacket Cable’s outer diameter remains less than once inch for ease of handling and installation in ducts and other limited spaces.

This next generation of ultra-high-fiber-count cables also incorporates proven loose buffer tube construction from OFS. This design offers increased protection of the optical fibers over other central core ribbon cables.

With their ability to maximize duct utilization, the AccuTube Cables are an ideal choice for applications where space is limited. They are also an excellent selection for data centers, FTTx and access networks.

*Up to 864 fibers in a single cable variant.
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>Single Jacket</th>
<th>Light Armor</th>
<th>Armored</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fiber Count</strong></td>
<td>288-432</td>
<td>288-432</td>
<td>288-432</td>
</tr>
<tr>
<td><strong>Outer Diameter - in. (mm)</strong></td>
<td>0.85 (21.6)</td>
<td>0.91 (23.2)</td>
<td>0.99 (25.3)</td>
</tr>
<tr>
<td><strong>Cable Weight - lb/kft (kg/km)</strong></td>
<td>227 (338)</td>
<td>306 (455)</td>
<td>353 (526)</td>
</tr>
<tr>
<td><strong>Tube Diameter - in. (mm)</strong></td>
<td>0.24 (6.0)</td>
<td>0.24 (6.0)</td>
<td>0.24 (6.0)</td>
</tr>
<tr>
<td><strong>Fiber Count</strong></td>
<td>444-864</td>
<td>444-864</td>
<td>444-864</td>
</tr>
<tr>
<td><strong>Outer Diameter - in. (mm)</strong></td>
<td>0.99 (25.1)</td>
<td>1.06 (26.9)</td>
<td>1.142 (29.00)</td>
</tr>
<tr>
<td><strong>Cable Weight - lb/kft (kg/km)</strong></td>
<td>306 (456)</td>
<td>405 (602)</td>
<td>460 (684)</td>
</tr>
<tr>
<td><strong>Tube Diameter - in. (mm)</strong></td>
<td>0.28 (7.2)</td>
<td>0.28 (7.2)</td>
<td>0.28 (7.2)</td>
</tr>
</tbody>
</table>

### All Cables:

- **Minimum Bend Radius, With Load**
  - 15 x OD
  - 15 x OD
  - 15 x OD
- **Minimum Bend Radius, With No Load**
  - 15 x OD
  - 15 x OD
  - 15 x OD
- **Minimum Bend Radius, Storage Coils**
  - 15 x OD
  - 15 x OD
  - 15 x OD
- **Maximum Rated Cable Load (MRCL)**
  - 1000 lb. (4448 N)
  - 1000 lb. (4448 N)
  - 1000 lb. (4448 N)
- **Maximum Long-Term Load**
  - 333 lb. (1481 N)
  - 333 lb. (1481 N)
  - 333 lb. (1481 N)

### Performance Standards (all cables)
Tested per applicable requirements of Telcordia Technologies GR-20 Core Issue 4.

### Handling (all cables)

#### Temperature
- **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)
### AccuTube® Ribbon In Loose Tube Cables

#### Fiber Type

<table>
<thead>
<tr>
<th>Single-Mode Fiber</th>
<th>Fiber Type</th>
<th>Fiber Type</th>
<th>Wavelengths (nm)</th>
<th>Typical Atten. (dB/km)</th>
<th>Maximum Cable on Reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllWave® ZWP Fiber</td>
<td>S1 = B E G.652.D</td>
<td>AllWave® ZWP Fiber</td>
<td>1310/1385/1550</td>
<td>-</td>
<td>0.35/0.31/0.25</td>
</tr>
<tr>
<td>AllWave+ ZWP Fiber</td>
<td>S1 = C E G.652.D/G.657.A1</td>
<td>AllWave+ ZWP Fiber</td>
<td>1310/1385/1550</td>
<td>-</td>
<td>0.35/0.31/0.25</td>
</tr>
<tr>
<td>AllWave FLEX ZWP Fiber</td>
<td>S1 = D E G.652.D/G.657.A1</td>
<td>AllWave FLEX ZWP Fiber</td>
<td>1310/1385/1550</td>
<td>-</td>
<td>0.35/0.31/0.25</td>
</tr>
<tr>
<td>AllWave Low Loss Fiber</td>
<td>S1 = A E G.652.D</td>
<td>AllWave Low Loss Fiber</td>
<td>1310/1385/1550</td>
<td>0.33/0.31/0.19</td>
<td>0.35/0.31/0.22</td>
</tr>
<tr>
<td>AllWave One Fiber</td>
<td>S1 = F E G.652.D/G.657.A1</td>
<td>AllWave One Fiber</td>
<td>1310/1385/1550</td>
<td>0.33/0.31/0.19</td>
<td>0.35/0.31/0.22</td>
</tr>
<tr>
<td>TrueWave® RS LWP Fiber</td>
<td>S1 = 6 G.655.C&amp;D</td>
<td>TrueWave® RS LWP Fiber</td>
<td>1550</td>
<td>0.21</td>
<td>0.25</td>
</tr>
<tr>
<td>TeraWave® Fiber</td>
<td>S1 = 6 R G.654.B</td>
<td>TeraWave® Fiber</td>
<td>1550</td>
<td>0.20</td>
<td>0.25</td>
</tr>
</tbody>
</table>

#### Multimode Fiber

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Fiber Type</th>
<th>Wavelengths (nm)</th>
<th>Typical Atten. (dB/km)</th>
<th>Maximum Cable on Reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>62.5 µm Fiber</td>
<td>S1 = R U 6 OM1 62.5 µm</td>
<td>850/1300</td>
<td>-</td>
<td>3.4/1.0</td>
</tr>
<tr>
<td>LaserWave® FLEX 300 Fiber</td>
<td>S1 = F R 9 OM3 50 µm</td>
<td>850/1300</td>
<td>-</td>
<td>2.4/0.7</td>
</tr>
<tr>
<td>LaserWave FLEX 550 Fiber</td>
<td>S1 = H R 9 OM4 50 µm</td>
<td>850/1300</td>
<td>-</td>
<td>2.4/0.7</td>
</tr>
</tbody>
</table>

#### AccuTube Ribbon in Loose Tube Ordering Information

**Example:** AT-3BE1XAT-NNN

**Part Number:** AT-S1 S2 SF S3 S4 S6 - NNN

- **Fiber Selection**: See S1 in Fiber Type table above
- **Fiber Transmission Performance**: See S2 in Fiber Type table above
- **Fiber Type**: See SF in Fiber Type table above
- **Sheath Design**: See S3 in Table above
- **Tensile Load**: See S4 in Table above
- **Core Type**: See S5 in Table above
- **Fibers per Tube**: See S6 in Table above
- **Fiber Count**: See NNN in Table above

1 Part Number shown is for an AccuTube Single Jacket Cable with standard AllWave ZWP attenuation and standard cable print. Maximum AllWave ZWP attenuation: 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm

2 Contact OFS Order Management for information on other cable variations, including additional fiber types, attenuation, and custom cable printing.

3 Contact your OFS Customer Care Representative on the positioning of ribbon requirements if TeraWave Fiber is being ordered.

**NOTE:** For more information regarding typical attenuation as well as attenuation parameters on Link Design Value (LDV) (Maximum end-to-end attenuation over a concatenated span), please see OFS Application Note AN-111 which can be downloaded at www.ofsoptics.com or contact your OFS representative.

### Maximum Reel Lengths - in feet/ft. (kilometers/km)*

<table>
<thead>
<tr>
<th>Fiber Count:</th>
<th>Single Jacket</th>
<th>Light Armor</th>
<th>Armored</th>
</tr>
</thead>
<tbody>
<tr>
<td>288-432 Fibers ft.</td>
<td>20,342 (6.2)</td>
<td>20,342 (6.2)</td>
<td>17.717 (5.4)</td>
</tr>
<tr>
<td>444-864 Fibers ft.</td>
<td>14,764 (4.5)</td>
<td>16,077 (4.9)</td>
<td>13,780 (4.2)</td>
</tr>
</tbody>
</table>

*For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.