



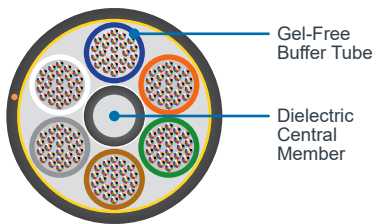
A Furukawa Company

# AccuTube®+ Rollable Ribbon (RR) in Loose Tube Cable

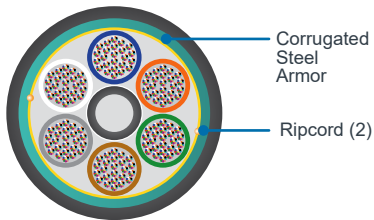
## Ultra-High-Density Cable for Performance You Can Count On



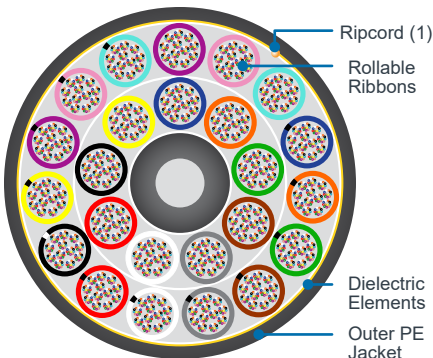
AccuTube+ 1728-Fiber RR Cable



432-1728 Fiber Dielectric Cable Cross-Section



432-1728 Fiber Metallic Cable Cross-Section



3456 Fiber Dielectric Cable Cross-Section

### Features

- Outstanding carrying capacity for ultra-high-density applications
- Rugged loose tube design features OFS rollable ribbon technology in individual polypropylene buffer tubes
- Completely gel-free design
- Fiber counts of 432, 576, 864, 1728 and 3456
- Standard ribbon print marking with numbers and blocks for identification
- Meets the mechanical and optical requirements of Telcordia GR-20 Issue 4 and ANSI/ICEA S-87-640 for outside plant (OSP) fiber optic cables
- 432, 576, 864 and 1728 fiber count available in Dielectric or Armored Versions

### Benefits

- Ribbon design enables smaller cable outer diameter (OD) and reduced weight versus comparable flat ribbon designs
- Rollable ribbon structure helps facilitate efficient mass fusion splicing and easy access to individual fibers for mid-span splice access
- Loose tube design enables rugged installation performance and easier ribbon access versus alternative rollable ribbon cable designs
- Gel-free design helps facilitate faster cable preparation
- Robustness suitable for OSP design

### Product Description

The AccuTube+ Rollable Ribbon (RR) Cable features 432, 576, 864, 1728 or 3456 optical fibers in a gel-free, loose tube cable design. This cable features rollable ribbons, OFS' newest optical fiber ribbon design. To form these ribbons, individual 250 µm fibers are partially bonded to each other at predetermined points.

### Why the AccuTube+ RR Cable?

With up to 3456 fibers in a single cable, the AccuTube+ RR Cable offers exceptional carrying capacity for high-growth, high-bandwidth applications. This cable's rollable ribbon design helps users achieve highly efficient and cost-effective mass fusion splicing along with easy individual fiber breakout. This capability helps to simplify installation and save on labor costs. In addition, the AccuTube+ RR Cable's significantly greater fiber density can help to expand the capacity of existing pathways using smaller, lower-cost duct systems. For example, the 1728 fiber count cables can be routed in existing 1 1/4-inch pathways while the 3456 fiber count cables are suited for 2-inch pathways.

The AccuTube+ RR Cable's ribbons may be "rolled" (compacted) and routed like individual fibers to facilitate use in smaller closures and splice trays.

In addition, this cable's completely gel-free water-blocking design also helps to reduce the time required to prepare cable ends and achieve mid-span access which can also help with reduced labor and splice costs.

With its ability to maximize duct utilization, the AccuTube+ RR Cable is an excellent choice for connecting very large fiber distribution hubs. It is also highly suitable for use in data centers, FTTx and access networks.



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## AccuTube®+ Rollable Ribbon (RR) in Loose Tube Cable

| Specifications                                                                             |                                    |                |             |             |
|--------------------------------------------------------------------------------------------|------------------------------------|----------------|-------------|-------------|
| Dielectric Construction                                                                    |                                    |                |             |             |
| <b>Fiber Count</b>                                                                         | <b>432</b>                         | <b>576-864</b> | <b>1728</b> | <b>3456</b> |
| <b>Cable Outer Diameter - in. (mm)</b>                                                     | 0.66 (16.8)                        | 0.82 (21)      | 0.99 (25.1) | 1.38 (35.0) |
| <b>Cable Weight - lb/kft (kg/km)</b>                                                       | 141 (210)                          | 212 (315)      | 310 (460)   | 556 (828)   |
| <b>Buffer Tube Diameter - in. (mm)</b>                                                     | 0.18 (4.5)                         | 0.24 (6.0)     | 0.28 (7.0)  | 0.20 (5.0)  |
| <b>Recommended Duct Size</b>                                                               | 1 in.                              | 1 in.          | 1 1/4 in.   | 2 in.       |
| Metallic Construction                                                                      |                                    |                |             |             |
| <b>Fiber Count</b>                                                                         | <b>432</b>                         | <b>576-864</b> | <b>1728</b> |             |
| <b>Cable Outer Diameter - in. (mm)</b>                                                     | 0.73 (18.6)                        | 0.91 (23.2)    | 1.05 (26.8) |             |
| <b>Cable Weight - lb/kft (kg/km)</b>                                                       | 195 (290)                          | 281 (418)      | 366 (545)   |             |
| <b>Buffer Tube Diameter - in. (mm)</b>                                                     | 0.18 (4.5)                         | 0.24 (6.0)     | 0.30 (7.0)  |             |
| <b>Recommended Duct Size</b>                                                               | 1 in.                              | 1 1/4 in.      | 1 1/2 in.   |             |
| Handling (All Fiber Counts)                                                                |                                    |                |             |             |
| <b>Minimum Bend Radius, with Load</b>                                                      | 15 x OD (Outer Diameter)           |                |             |             |
| <b>Minimum Bend Radius, with No Load</b>                                                   | 15 x OD                            |                |             |             |
| <b>Minimum Bend Radius, Storage Coils</b>                                                  | 15 x OD                            |                |             |             |
| <b>Rated Installation Load</b>                                                             | 1000 lb. (4448 N)                  |                |             |             |
| <b>Maximum Long-Term Load</b>                                                              | 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)                                                             |                                    |                |             |             |
| <b>Installation</b>                                                                        | -22 °F to 140 °F (-30 °C to 60 °C) |                |             |             |
| <b>Operation</b>                                                                           | -40 °F to 158 °F (-40 °C to 70 °C) |                |             |             |
| <b>Storage</b>                                                                             | -40 °F to 167 °F (-40 °C to 75 °C) |                |             |             |

### AccuTube+ RR Cable Ordering Information

Example: AT-3GE1X5T-NNNN<sup>1</sup>

Part Number: AT - S1 S2 SF S3 S4 S5 S6 - NNNN

**S1 = Fiber Selection**

See S1 in Fiber Type table below.

**S2 = Fiber Transmission Performance**

See S2 in Fiber Type table below.

**SF = Fiber Type<sup>2</sup>**

See SF in Fiber Type table below.

**S3 = Sheath Construction**

1 = Single Jacket, All Dielectric

H = Single Jacket, Single Armor

**S4 = Tensile Load**

X = 1,000 lb. (4450 N)

**S5 = Core Type**

5 = Gel-Free Loose Tube Rollable Ribbon in 4.5 mm Tubes (432 Fiber)

5 = Gel-Free Loose Tube Rollable Ribbon in 6.0 mm Tubes (864 Fiber)

5 = Gel-Free Loose Tube Rollable Ribbon in 7.0 mm Tubes (1728 Fiber)

5 = Gel-Free Loose Tube Rollable Ribbon in 5.0 mm Tubes (3456 Fiber)

**S6 = Fibers per Buffer Tube (12-Fiber Ribbons)**

T = 72 Fibers/Tube (432 Fiber)

T = 144 Fibers/Tube (864 Fiber)

T = 288 Fibers/Tube (1728 Fiber)

T = 144 Fibers/Tube = (3456 Fiber)

**NNNN = Fiber Count**

432, 576, 864, 1728 and 3456

| Fiber Type <sup>2</sup>            |            |            |            |                  |
|------------------------------------|------------|------------|------------|------------------|
| Single-Mode Optical Fiber          | Fiber (S1) | Fiber (S2) | Fiber (SF) | Standard         |
| <b>AllWave®+ ZWP Optical Fiber</b> | 3          | G          | E          | G.652.D/G.657.A1 |
| Maximum Cable Attenuation on Reel  |            |            |            |                  |
|                                    | 1310 nm    | 1385 nm    | 1550 nm    | MCA              |
| <b>AllWave+ ZWP Optical Fiber</b>  | 0.4        | 0.4        | 0.3        | 4                |

<sup>1</sup> Part Number shown is for an AccuTube+ Rollable Ribbon Cable with standard 144 AllWave+ ZWP Optical Fibers and standard cable print.

OFS OPTICAL CABLE AT-3GE1X5T-NNNN [MM/YY] (UL) US TYPE OFNR [HANDSET SYMBOL] [NNN] F [SERIAL #]

<sup>2</sup> Contact OFS Order Management for information on other cable variations including additional fiber types, fiber counts, attenuation and custom cable print.

For additional information please contact your sales representative.

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



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