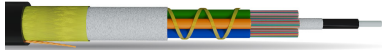


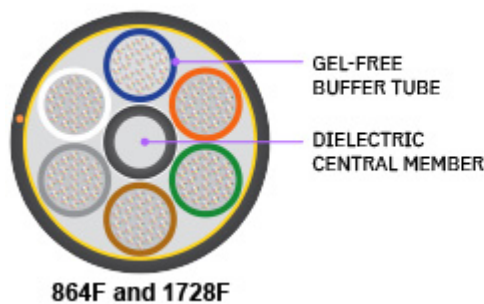
AccuTube+ Rollable Ribbon (RR) in Loose Tube Cable

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

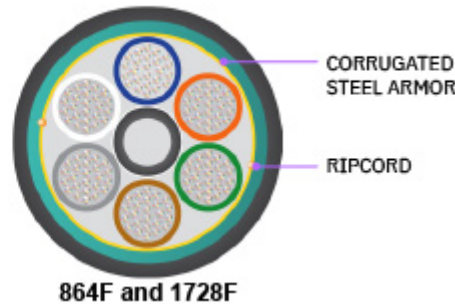


*** BEAD COMPLIANT
* AVAILABLE**

Dielectric Cable Cross Section



Metallic Cable Cross Section



Features

- Outstanding carrying capacity for ultra-high-density applications
- Rugged loose tube design features Lightera rollable ribbon technology in individual polypropylene buffer tubes
- Easily identifiable ribbon print marking using blocks and bars
- 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

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

Eco Friendly Benefits

- On high fiber count cables, rollable ribbon cables can cut shipping related CO2 emissions by half versus flat ribbon cables.
- Rollable Ribbon cable reduce the carbon footprint by being on smaller reels and requiring less material manufacture.

Product Description	The AccuTube+ Rollable Ribbon (RR) Cable features 864 or 1728 optical fibers in a gel-free, loose tube cable design. This cable features rollable ribbons, Lightera' 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 1728 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.



Lightera has partnered with Sonoco EcoReel, North America's largest producer and recycler of reels, to provide a **free reel removal service** for Lightera cable customers.

Specifications

Dielectric Construction

Fiber Count	864	1728
Cable Outer Diameter - In. (mm)	0.85 (21.6)	0.99 (25.1)
Cable Weight - Lb/kft (kg/km)	212 (315)	310 (460)
Buffer Tube Diameter In. (mm)	0.24 (6.0)	0.28 (7.0)
Recommended Duct Size	1 in.	1 1/4 in.

Metallic Construction

Fiber Count	864	1728
Cable Outer Diameter - In. (mm)	0.91 (23.2)	1.05 (26.8)
Cable Weight - Lb/kft (kg/km)	281 (418)	366 (545)
Buffer Tube Diameter In. (mm)	0.24 (6.0)	0.30 (7.0)
Recommended Duct Size	1 1/4 in.	1 1/2 in.

Handling

Minimum Bend Radius, with Load	15 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)

Temperature

Installation	-22 °F to 140 °F (-30 °C to 60 °C)
Operation	-40 °F to 158 °F (-40 to 70 °C)
Storage	-40 °F to 167 °F (-40 °C to 75 °C)

Performance Standard

Performance Standard (all Fiber Counts)

 Tested per Applicable Requirements of ANSI/ICEA S-87-640 and
 Telcordia GR-20 CORE Issue 4.

Fiber Type²

Single-Mode Optical Fiber	Fiber (S1)	Fiber (S2)	Fiber (SF)	Fiber Standards	Wavelengths (nm)	Typical Attenuation (dB/km)	Maximum Cable on Reel Attenuation (dB/km)
AllWave+ ZWP Optical Fiber	3	G	E	G.652.D/ G.657.A1	1310/1385/1550	0.35/0.3/0.22	0.4/0.4/0.3

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

AccuTube+ RR Cable Ordering Information

Example	AT-3GE1X5T-nnnn¹ and AT-5GE1X5T-1728*
Part Number	AT - S1 S2 SF S3 S4 S5 S6 - NNNN
S1	Fiber Selection. See S1 Fiber Table above
S2	Fiber Transmission Performance. See S2 Fiber Table above
SF	Fiber Type ² . See SF Fiber Table above
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 RR in 6.0 mm Tubes (864 Fiber) 5 = Gel-Free Loose Tube RR in 7.0 mm Tubes (1728 Fiber)
S6	Fibers per Buffer Tube (12-fiber Ribbons). T = 144 Fibers/Tube (864 Fiber) T = 288 Fibers/Tube (1728 Fiber)
NNNN	Fiber Count = 864 or 1728
Note	¹ Part Number shown is for an AccuTube+ Rollable Ribbon Cable with standard AllWave+ ZWP Optical Fibers and standard cable print: LIGHTERA OPTICAL CABLE AT-3GE1X5T-NNNN [MM/YY] [HANDSET SYMBOL] [NNNN] F [SERIAL #] ² Contact Lightera Order Management for information on other cable variations including additional fiber types, fiber counts, attenuation and custom cable print.

Contact Information	For additional information please contact your sales representative. You can also visit our website at www.lightera.com or call 1-888-FIBERHELP (1-888-342-3743) USA or 1-770-798-5555 outside the USA. For a full list of our certifications, visit our website.
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Customer is required to comply with all BABAA for BEAD requirements applicable to it. Lightera will, at its sole discretion, fulfill orders requested by Customer and will not be liable for errors in product selection, delivery or warehousing which result in the installation of non-BABAA for BEAD compliant products into BEAD funded infrastructure projects.
