

AccuRoll Dry Core (DC) Rollable Ribbon Fiber Optic Cable



Increased Fiber Density and Improved Cabling Coiling for Performance You Can Count On - Available in Dielectric and Metallic Sheath Options

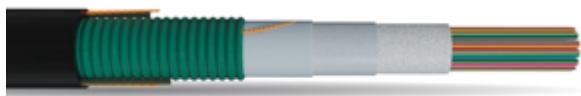
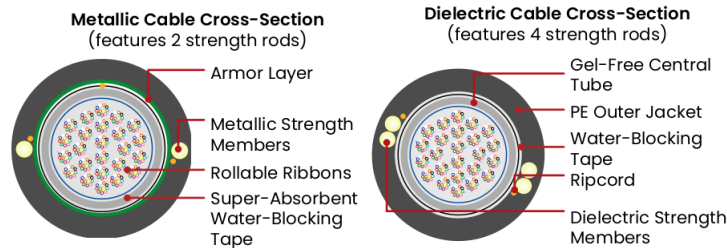
*** BEAD COMPLIANT
* AVAILABLE**

Features And Benefits

- First and only central core rollable ribbon cable design with linear strength elements and a central core tube as a protective layer around the ribbons
- Robust and familiar central core cable design optimized for strength and cost effectiveness
- Maximum cable length offerings based on processing parameters and design
- Metallic cables among the smallest, high-density armored cables available today
- Optimized for mid-sheath openings and access networks for all outside plant cable markets

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.



Metallic



Dielectric

Product Description

The AccuRoll Dry Core (DC) Rollable Ribbon (RR) Cable features rollable ribbon technology, the newest optical fiber ribbon design from Lightera. To form these ribbons, 250 μ m 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.

The construction of the AccuRoll DC RR Cable begins with its dry central core tube, which contains a gel-free, water-blocking tape and up to 36 individually numbered 12-fiber rollable ribbon units (12 to 432f) or up to thirty-six 24 fiber Rollable Ribbon units (576 to 864f). This central tube provides enhanced ribbon protection beyond that of other flexible ribbon cables. Surrounding the central tube is an additional layer of water-blocking tape and an optional layer of armor. Completing the construction of the AccuRoll DC RR Cable is a durable polyethylene (PE) jacket with integrated metallic or dielectric strength members. Ripcords are strategically located beneath the jacket for easy cable entry.

The AccuRoll DC RR Cable offers twice the fiber density of comparable flat ribbon cables in a familiar and cost-effective outside plant cable design. In addition, the combination of rollable ribbons and a gel-free construction makes this cable smaller and lighter in weight than comparable standard flat ribbon cables.

The AccuRoll DC RR Cable is optimized for blown and pulled installations and also offers excellent kink and crush performance. These features combine to make this cable a natural choice for underground, direct buried and lashed aerial deployments.



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.

Specification							
Fiber Count	12, 24, 48	72, 96	144	288	432	576	864
Dielectric Sheath							
Outer Diameter - In. (mm)	0.39 (10.0)	0.44 (11.3)	0.50 (12.6)	0.55 (13.9)	0.65 (16.5)	0.73 (18.5)	0.81 (20.6)
Weight - Lb./kft (kg/km)	53 (79)	70 (104)	71 (106)	101 (150)	126 (186)	132 (197)	163 (243)
Metallic Sheath							
Outer Diameter - In. (mm)	0.39 (10.0)	0.43 (11.0)	0.47 (12.0)	0.55 (14.0)	0.64 (16.3)	0.77 (19.5)	0.81 (20.6)
Weight - Lb./kft (kg/km)	83 (124)	97 (144)	107 (159)	137 (204)	157 (234)	192 (285)	228 (340)

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 (Minimum Coiling Radius = 9 in. (23 cm)) See Lightera IP-009 for coiling and & IP-042 for sheath preparation instructions.			
Maximum Rated Cable Load (MRCL)				600 lb. (2700 N)			
Maximum Long-term Load				180 lb. (800 N)			
Temperature							
Installation				-22 °F to 158 °F (-30 °C to 70 °C)			
Operation				-40 °F to 158 °F (-40 to 70 °C)			
Storage				-40 °F to 158 °F (-40 °C to 70 °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®+ 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
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.							

AccuRoll Dry Core Rollable Ribbon Cable Ordering Information

Example	AT-3GE8Y3X-NNN¹ (Dielectric) AT-3GE8YSX-NNN¹ (Metallic/Armored)
Part Number	AT- S1 S2 SF S3 S4 S5 S6 - NNN¹
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. 8 = All Central Core Products
S4	Cable Core Design. Y = Gel-free 12-fiber Rollable Ribbon Z = Gel-free 24-fiber Rollable Ribbon (≥ 576 Fibers)
S5	Sheath Design. 3 = Totally Dry All-Dielectric Dry-Core S = Totally Dry Armored Dry-Core
S6	Central Core – Oversheath. X = No Oversheath
NNN	Fiber Count = 12, 24, 48, 72, 96, 144, 288, 432, 576, 864
Note	¹ Part Number shown is for standard AllWave+ ZWP attenuation and standard cable print: AllWave+ ZWP attenuation: 0.35/0.31/0.27/0.25/0.27 1310/1385/1490/1550/1625nm). Standard Print, example: LIGHTERA OPTICAL CABLE AT-3GE8Y3X-NNN [MM-YY] [HANDSET SYMBOL] [NNN] F [SERIAL #] ² Contact Lightera Order Management for information on other cable variations, including additional fiber types, attenuation, and custom cable print. For more information regarding typical attenuation as well as attenuation parameters on Link Design Value (LDV) (Maximum end-to-end link attenuation over a concatenated span), please see Lightera Application Note AN-111 which can be downloaded at www.lightera.com or contact your Lightera representative.
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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