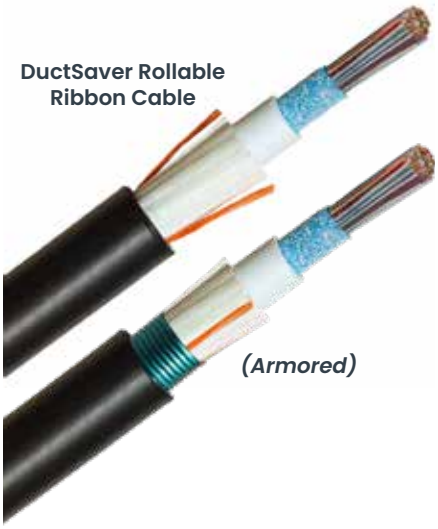
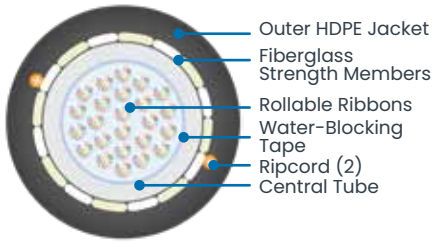
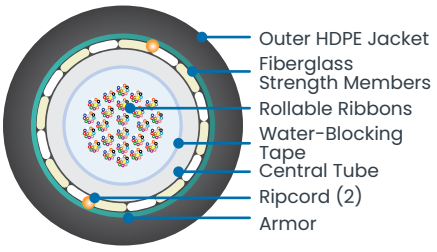
DuctSaver® Rollable Ribbon (RR) Central Core Cable

Increased Fiber Density and Improved Cable Coiling for Performance You Can Count On





Dielectric Cross-Section



Armored Cross-Section

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

Features

- 12 fiber ribbon units featuring rollable ribbon technology
- Durable, highly crush-resistant central core design features with helically applied strength member system
- Easily identifiable ribbon print marking using blocks and bars
- Completely gel-free construction
- Utilizes standard ITU-T G.652.D and G.657.A1 compliant fiber

Benefits

- Optimized for fast, cost-effective mass fusion splicing
- Ribbon and sheath design enables smaller cable outer diameter (OD) and reduced weight versus comparable flat ribbon designs
- Superior cable coiling for simplified handling and installation compared to LXE designs
- Gel-free design helps facilitate faster cable preparation
- Added protection of central core for increased robustness and ease of midspan access.
- Offers seamless splicing in existing fiber network with no mode field mismatch

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 DuctSaver® Rollable Ribbon (RR) Cable features 72, 144, 288, or 432 optical fibers in a gel-free, central core cable design. This cable features rollable ribbons, the newest optical fiber ribbon design from OFS. To form these ribbons, individual 250 µm fibers are partially bonded to each other at predetermined points. The cable design features a central tube construction with helical strength elements for durable protection and superior coiling performance to alternative products.

Why the DuctSaver Rollable Ribbon (RR) Cable?

The DuctSaver RR Cable's rollable ribbon design helps users to 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 DuctSaver RR Cable's greater fiber density can help to expand the capacity of existing pathways using smaller, lower-cost duct systems.

The DuctSaver 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 which can also help with reduced labor and splice costs.

With its ability to maximize duct utilization, the DuctSaver 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.

Specifications

	Dielectric Versions				Armored Versions			
Fiber Count	**72**	**144**	**288**	**432**	**72**	**144**	**288**	**432**
Cable Outer Diameter - in. (mm)	0.35 (9)	0.39 (10)	0.47 (12)	0.57 (14.5)	0.43 (11.0)	0.46 (11.6)	0.54 (13.6)	0.63 (16.0)
Cable Weight - lb/kft (kg/km)	44 (65)	53 (79)	73 (109)	99 (148)	72 (106)	84 (125)	113 (168)	139 (207)

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	10 x OD
Maximum Rated Cable Load (MRCL)	600 lb. (2700 N)
Maximum Long-Term Load	180 lb. (800 N)

Temperature (All Fiber Counts)	
Installation	-22 °F to 140 °F (-30 °C to 70 °C)
Operation	-40 °F to 158 °F (-40 °C to 70 °C)
Storage	-40 °F to 167 °F (-40 °C to 70 °C)

Performance Standard (All Fiber Counts)

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

Fiber Type[2]

Single-Mode Optical Fiber	Fiber (S1)	Fiber (S2)	Fiber (SF)	Standard	Typical* Attenuation (dB/km)	Maximum Cable Attenuation on Reel
AllWave®+ ZWP Optical Fiber	3	G	E	G.652.D/G.657.A1	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 OFS Application Note AN-111-A which can be downloaded at www.ofsoptics.com or contact your OFS representative.

DuctSaver RR Central Core Cable Ordering Information

Example: AT-3GE8Y4X-*NNN*[1]
Armored Version: AT-3GE8Y2X-*NNN*

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

S1 = **Fiber Selection**
See S1 in Fiber Type table above.

S2 = **Fiber Transmission Performance**
See S2 in Fiber Type table above.

SF = **Fiber Type[2]**
See SF in Fiber Type table above.

S3 = **Sheath Construction**
8 = All Central Core Products

S4 = **Central Core Design**
Y = Gel-Free Central Core Rollable Ribbon

S5 = **Sheath Design**
4 = DuctSaver Dielectric Rollable Ribbon
2 = DuctSaver Armor Rollable Ribbon

S6 = **Central Core-Oversheath**
X = No Oversheath

NNN = **Fiber Count**
072, 144, 288, 432

[1] Part Number shown is for a DuctSaver Rollable Ribbon Cable with standard AllWave+ ZWP Optical Fiber attenuation: 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm and standard cable print.

OFS OPTICAL CABLE AT-3GE8Y4X-NNN [MM/YY] (UL) [HANDSET SYMBOL] [NNN] F [SERIAL #]

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

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.

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.

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OFS Marketing Communications
DOC ID: osp-184 Date: 4/24

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