

# AccuRibbon® DuctSaver® Ribbon FX Cable



A Furukawa Company

## Optimizing the Benefits of Air-Blown Microduct Installations

### Product Description

The AccuRibbon® DuctSaver® FX Cable offers an ideal solution for microcable installations by allowing rapid deployment while retaining the benefits of mass fusion splicing. Available in fiber counts up to 96, this cable design is optimized for airblown microduct deployment.

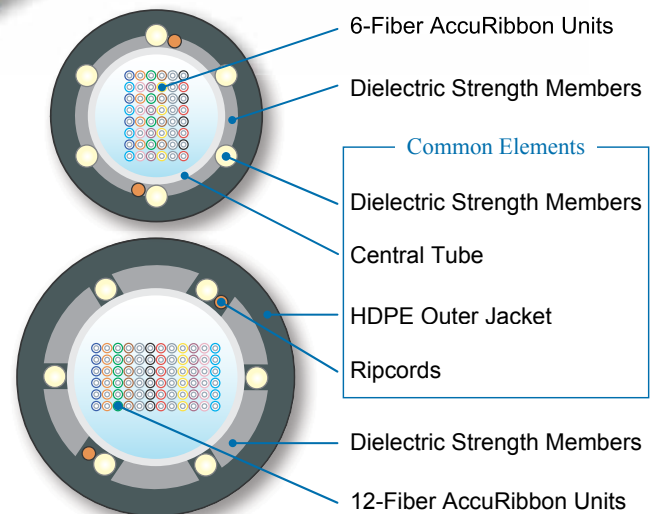
The AccuRibbon DuctSaver FX Cable is a “micro” version of OFS’ AccuRibbon DuctSaver Cable. The construction of this microcable begins with a central core tube containing AccuRibbon® Fiber units. A specially engineered water-blocking compound surrounds these ribbons inside the central tube. Next, a layer of dielectric strength members (fiberglass rods and yarns) is helically applied. The fiberglass yarns contain a super-absorbent powder that provides resistance to water penetration along the cable sheath. The cable construction is then completed with a high-density polyethylene (HDPE) jacket that provides extra protection in hostile environments and, most importantly, a low coefficient of friction to speed installation into a microduct.

### Why the AccuRibbon DuctSaver FX Cable?

With its compact, flexible sheath finished with an HDPE jacket and a ribbon-based core, the AccuRibbon DuctSaver FX Cable is uniquely designed to maximize the key advantages of an airblown microduct installation – rapid deployment and service activation. Moreover, microduct installation with this small-diameter cable helps make optimum use of limited space in existing rights-of-way and to conserve these rights-of-way for future technology innovations. Microduct deployments also offer numerous benefits for upgrades to existing underground plant where duct space is limited or is partially occupied by previously installed cables. In addition, mass-fusion splicing of fiber ribbons is a proven time-saver in getting customer service up and running quickly. With the AccuRibbon DuctSaver FX Microcable, the benefits of ribbon splicing, improved space efficiencies and rapid installation are rolled into one cable.

48-fiber AccuRibbon DuctSaver FX Cable – 6-Fiber Ribbon in a 10/8 mm Microduct

72-fiber AccuRibbon DuctSaver FX Cable – 12-Fiber Ribbon in a 12/10 mm Microduct



### Features and Benefits:

- Specifically designed for air-blown microduct installations
- HDPE jacket improves friction coefficient to optimize air-blown deployment performance
- AccuRibbon cable core supports mass fusion splicing
- All-dielectric construction provides safer cable installation and maintenance
- Compliant with ICEA, Telcordia, and IEC specifications for reliable performance
- Standard with OFS AllWave® Zero Water Peak (ZWP) Single-Mode Fiber

## Specifications

Microduct Size	10/8 mm	12/10 mm	16/12 mm
Fiber Count	6-48	12-72	84-96
Fibers per Ribbon	6	12	12
Cable Outer Diameter – in. (mm)	0.23 (5.8)	0.30 (7.5)	0.36 (9.1)
Cable Weight – lb/kft (kg/km)	33 (49)	36 (54)	52 (78)

## Performance Standard

Tested per Relevant Tests of IEC 60794	Tested per Relevant Tests of ANSI/ICEA S-87-640-1999/Telcordia GR-20 CORE, Issue 2
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## Handling

Minimum Bend Radius, With Load:	20 x OD*		
Minimum Bend Radius, With No Load:	15 x OD		
Minimum Bend Radius, Storage Coils:	20 x OD		
Maximum Rated Cable Load (MRCL) – lbf (N):	135 (600)	300 (1335)	300 (1335)
Maximum Long Term Load – lb/kft (kg/km):	67 (300)	90 (400)	90 (400)
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)	

\* Note: OD = Outer Diameter of Cable

## AccuRibbon DuctSaver FX Cable Ordering Information

Example: **AT-3BE8M4X-NNN<sup>1</sup>** (6-fiber ribbons)  
**AT-3BE8G4X-NNN<sup>1</sup>** (12-fiber ribbons)

Part Number:	Fiber <sup>2</sup>		Sheath		Core		Fiber Count	
	S1	S2	SF	S3	S4	S5	S6	NNN
<b>S1 = Fiber Selection</b>	<b>SF = Fiber Type</b>		<b>S5 = Sheath Design</b>					
3 = 1310/1550 nm (AllWave® ZWP Fiber)	E = AllWave ZWP		4 = Gel-Filled All-Dielectric Central Core					
6 = 1550 nm (TrueWave® RS LWP Fiber)	6 = TrueWave RS LWP							
R = 850/1300 nm (Multimode)	9 = 62.5/125 µm Multimode							
<b>S2 = Fiber Transmission Performance</b>	<b>S3 = Sheath Construction</b>		<b>S6 = Central Core - Oversheath</b>					
B = 0.35/0.31/0.27/0.25/0.27 dB/km @	8 = All Central Core Products		X = No Oversheath					
1310/1385/1490/1550/1625 nm (AllWave ZWP)								
2 = 0.25 dB/km @ 1550 nm (TrueWave RS LWP)	<b>S4 = Cable Core Design</b>							
U = 3.4/1.0 dB/km and 200/500 MHz-km @	M = 6 Fibers Per Ribbon AccuRibbon DuctSaver FX							
850/1300 nm (62.5 µm Multimode)	G = 12 Fibers Per Ribbon AccuRibbon DuctSaver FX							
K = 2.5/0.7 dB/km and 500/500 MHz-km @								
850/1300 nm (50 µm Multimode)								

<sup>1</sup> Part Number shown is for 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)  
 Standard Print, example (AccuRibbon DuctSaver FX Cable):

**OFS OPTICAL CABLE AT-3BE8G4X -NNN [MM-YY] [HANDSET SYMBOL] [NNN] F [SERIAL #]**

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



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[www.ofsoptics.com](http://www.ofsoptics.com) - Use less paper

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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) from inside the USA or 1-770-798-5555 from outside the USA.

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