



A Furukawa Company

AccuRibbon® DuctSaver® FX Ribbon Cable

Optimizing the Benefits of Air-Blown Microduct Installations



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

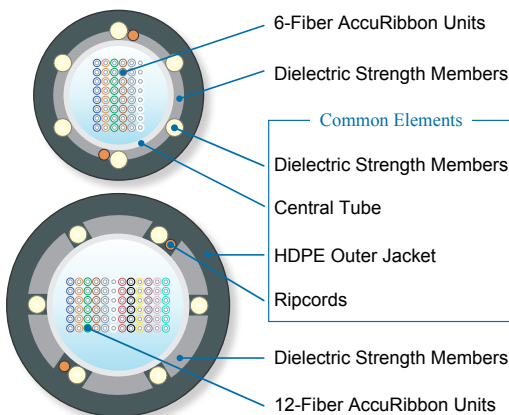
Features and Benefits

- 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
- Available with OFS application-specific fibers including AllWave® Zero Water Peak (ZWP) Single-Mode Fiber

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.

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)	34 (50)	36 (54)	52 (77)

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 4,

Handling

Minimum Bend Radius, With Load	20 x OD*	20 x OD*	20 x OD*	Temperature
Minimum Bend Radius, With No Load	15 x OD	15 x OD	15 x OD	Installation: -22 °F to 140 °F (-30 °C to 60 °C)
Minimum Bend Radius, Storage Coils	20 x OD	20 x OD	20 x OD	Operation: -40 °F to 158 °F (-40 °C to 70 °C)
Maximum Rated Cable Load (MRCL) – lbf (N):	135 (600)	300 (1335)	300 (1335)	Storage: -40 °F to 167 °F (-40 °C to 75 °C)
Maximum Long Term Load – lb/kft (kg/km):	67 (300)	90 (400)	90 (400)	

Fiber Type²

	Fiber (S1)	Fiber (S2)	Fiber (SF)	Fiber Standards	Wavelengths (nm)	Typical * Attenuation (dB/km)	Maximum Cable on Reel Attenuation (dB/km)
Single-Mode Fiber							
AllWave® ZWP Fiber	3	B	E	G.652.D	1310/1385/1550	-	0.35/0.31/0.25
AllWave+ ZWP Fiber	3	C	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave FLEX ZWP Fiber	5	B	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave Low Loss Fiber	3	A	E	G.652.D	1310/1385/1550	0.33/0.31/0.19	0.35/0.31/0.22
AllWave One Fiber	3	F	E	G.652.D/G.657.A1	1310/1385/1550	0.33/0.31/0.19	0.35/0.31/0.22
TrueWave® RS LWP Fiber	6	2	6	G.655.C&D	1550	0.21	0.25
TeraWave® Fiber	6	2	R	G.654.B	1550	0.20	0.25

Multimode Fiber

62.5 µm Fiber	R	U	9	OM1 62.5 µm	850/1300	-	3.4/1.0
LaserWave® FLEX 300 Fiber	R	F	2	OM3 50 µm	850/1300	-	2.4/0.7
LaserWave FLEX 550 Fiber	R	H	2	OM4 50 µm	850/1300	-	2.4/0.7

AccuRibbon DuctSaver FX Central Core Ribbon Cable Ordering Information

Example: AT-3BE8M4X-NNN¹ (6-fiber ribbons) AT-3BE8G4X-NNN¹ 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 Type²
See SF in Fiber Type table above

S3 = Sheath Construction
8 = All Central Core Products

S4 = Central Core Design
M = 6 Fibers per Ribbon AccuRibbon DuctSaver FX
G = 12 Fibers per Ribbon AccuRibbon DuctSaver FX

S5 = Sheath Design
4 = Gel-Filled All-Dielectric Central Core

S6 = Central Core - Oversheath
X = No Oversheath

NNN = Fiber Count =
006 to 048 (6-fiber ribbons)
012 to 072 (12-fiber ribbons)
084 to 096 (12-fiber ribbons)

¹ Part Number shown is for a AccuRibbon DuctSaver FX Cable with 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 for AccuRibbon DuctSaver FX Cable: OFS OPTICAL CABLE AT-3BE8G4X-NNN [MM-YY] (UL) US TYPE OFNR [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

³ Contact your OFS Customer Care Representative on the positioning of ribbon requirements if TeraWave Fiber is being ordered.

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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