

AccuRibbon® DC Cable Toneable



A Furukawa Company

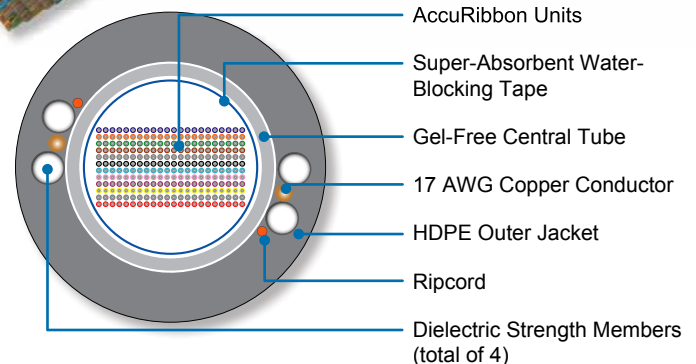
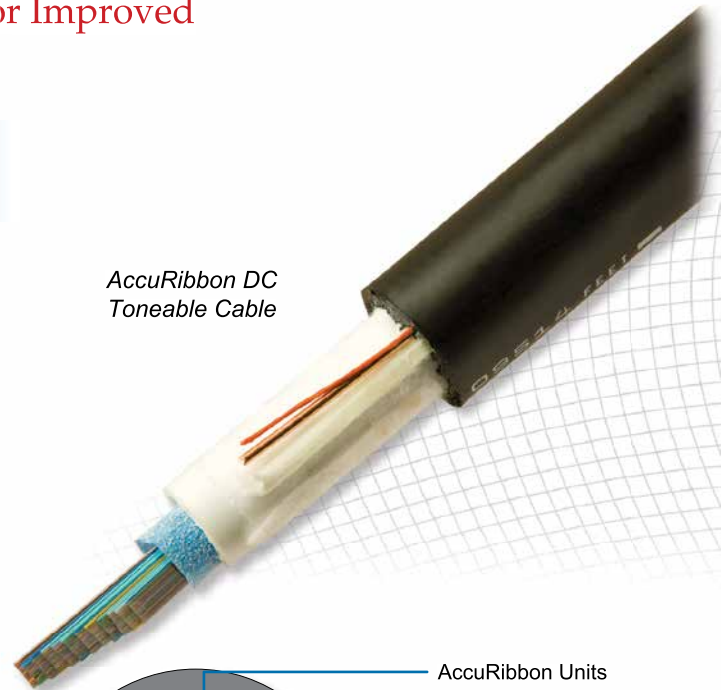
Totally Gel-Free, Ribbon Cable Optimized for Improved Air-Blown Installation Performance

Product Description

The OFS AccuRibbon® DC Toneable Cable's optimized design offers a more compact, lighter weight cable that helps enable significantly improved air-blown installation performance (when compared with similar gel-filled cables). This innovative, gel-free ribbon cable also helps save time and money on deployment costs by reducing the time required for splicing and installation.

The construction of the AccuRibbon DC Toneable Cable begins with a completely dry central core tube, which contains a gel-free water-blocking tape and up to eighteen 12-fiber AccuRibbon units (for up to 216 fiber counts) or eighteen 24-fiber units (for up to 432 fiber counts). Surrounding the central tube is another layer of super-absorbent water-blocking tape to provide added water-penetration resistance. Two 17 AWG copper conductors are embedded over the tape (diametrically opposite to one another for balanced cable design) to facilitate cable location along with easier bonding and grounding. A dielectric strength rod is inserted on either side of each copper conductor for extra crush resistance (a total of four rods). To facilitate easy cable entry, two ripcords are placed beneath a durable high-density polyethylene (HDPE) outer jacket that completes the cable design.

AccuRibbon DC
Toneable Cable



Why the AccuRibbon DC Toneable Cable?

The optimized AccuRibbon DC Toneable Cable features a reduced outer diameter and cable weight along with smaller 17 AWG copper conductors. These design enhancements combine to help enable up to a 300% improvement in air-blown cable installation performance, when compared with OFS' previous product offering.¹

The AccuRibbon DC Toneable Cable's innovative gel-free design is also engineered to save time and money on splicing and deployment. By replacing gels with super-

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AccuRibbon DC Toneable Cable
Cross-Section

Features and Benefits:

- Optimized design helps enable up to a 300% improvement in air-blown installation performance¹
- Helps save on deployment costs by reducing cable end preparation time by up to 80%²
- Totally gel-free cable for cleaner, faster installation
- Reduced cable diameter and lighter weight offer easier, more rapid cable deployment
- AccuRibbon units support mass-fusion splicing, helping speed fiber termination and making more efficient use of limited duct space

¹ In OFS field trials involving difficult 1.25-foot duct situations, the optimized AccuRibbon DC Toneable Cable achieved cable blowing distances up to 300% greater than those attained by the previous cable design (featuring 15 AWG copper conductors and two dielectric rods).

Continued on next page

absorbent water-blocking materials, this cable offers excellent water-blocking protection along with up to an 80% reduction in the time required to prepare cable ends for splicing and termination, when compared with similar gel-filled cables.²

The cable's AccuRibbon units support the use of mass-fusion splicing to help speed fiber termination and maximize the number of fibers that can be deployed in limited duct space. In fact, up to 25% less duct space is required to accommodate high-fiber count AccuRibbon DC Toneable Cables when compared to OFS loose tube cables with the same fiber counts.³

Finally, the embedded 17 AWG copper conductors help to reduce expense by eliminating the need for a separate tracer wire installation.

Features and Benefits (*Continued*):

- 17 AWG copper conductors for fast, reliable cable location while facilitating bonding and grounding
- RDUP (formerly RUS) compliant; complies with ANSI/ICEA, Telcordia Technologies and IEC specifications for reliable performance
- Available with OFS AllWave® Zero Water Peak (ZWP) Single-Mode Fiber, as well as TrueWave® RS Low Water Peak (LWP) Single-Mode Fiber and Multimode fibers

² When using the optimized AccuRibbon DC Toneable Cable in field trials, up to an 80% reduction was achieved in the time required for cable end preparation as compared to similar gel-filled OFS and competitor cables.

³ In field trials, the optimized gel-free ribbon AccuRibbon DC Toneable Cable required 25% less duct space when compared with loose tube cables by OFS and competitors.



Specifications

Fiber Count	12-48	60-144	156-216	264-432
Cable Outer Diameter – in. (mm)	0.50 (12.6)	0.55 (13.9)	0.65 (16.5)	0.78 (19.8)
Cable Weight – lb/kft (kg/km)	100 (149)	114 (169)	137 (204)	188 (280)

Performance Standard (all cables)

Tested per Applicable Requirements of ANSI/ICEA S-87-640 and Telcordia GR-20-CORE Issue 3

Handling (all cables)

Minimum Bend Radius, With Load	20 x OD*	20 x OD*	20 x OD*	20 x OD*
Minimum Bend Radius, With No Load	10 x OD	10 x OD	10 x OD	10 x OD
Minimum Bend Radius, Storage Coils	9 in. (23 cm)	9 in. (23 cm)	9 in. (23 cm)	17 in. (43 cm)
Maximum Rated Cable Load (MRCL)	600 lbf (2700 N) - all cables			
Maximum Long Term Load	180 lbf (800 N) - all cables			
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)			

* OD = Outer Diameter of Cable

See OFS Installation Procedure 042 for sheath preparation and coiling instructions.

AccuRibbon DC Toneable Cable Ordering Information

Example: **AT-3BE833T-NNN-7**¹

		Fiber ²		Sheath		Core		Fiber Count	Custom/Special
Part Number:		<i>S1</i>	<i>S2</i>	<i>SF</i>	<i>S3</i>	<i>S4</i>	<i>S5</i>	<i>S6</i>	- <i>NNN</i> - <i>E</i>
<i>S1</i> = Fiber Selection		3 = 1310/1550 nm (AllWave® ZWP Fiber)		E = AllWave ZWP Single-Mode Fiber					<i>S5</i> = Sheath Design
		6 = 1550 nm (TrueWave® RS LWP Fiber)		6 = TrueWave RS LWP					3 = Dry Core (Completely Gel-Free)
		R = 850/1300 nm (Multimode Fiber)		9 = 62.5/125 µm Multimode					<i>S6</i> = Central Core - Oversheath
				2 = 50/125 µm Multimode					T = Toneable
<i>S2</i> = Fiber Transmission Performance		B = 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm (AllWave ZWP/AllWave FLEX ZWP)		<i>S3</i> = Sheath Construction					<i>NNN</i> = Fiber Count = 012 to 432
		2 = 0.25 dB/km @ 1550 nm (TrueWave RS LWP)		8 = All Central Core Products					<i>E</i> = Custom/Special
		U = 3.4/1.0 dB/km and 200/500 MHz-km @ 850/1300 nm (62.5 µm Multimode)		<i>S4</i> = Cable Core Design					7 = 17 AWG Copper Conductors
		K = 2.5/0.7 dB/km and 500/500 MHz-km @ 850/1300 nm (50 µm Multimode)		3 = 12 Fibers per Ribbon AccuRibbon DC Toneable					
				4 = 24 Fibers per Ribbon AccuRibbon DC Toneable					

¹ 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 for AccuRibbon DC Toneable Cable:

OFS OPTICAL CABLE AT-3BE833T-NNN-7 [MM-YY] [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.





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

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