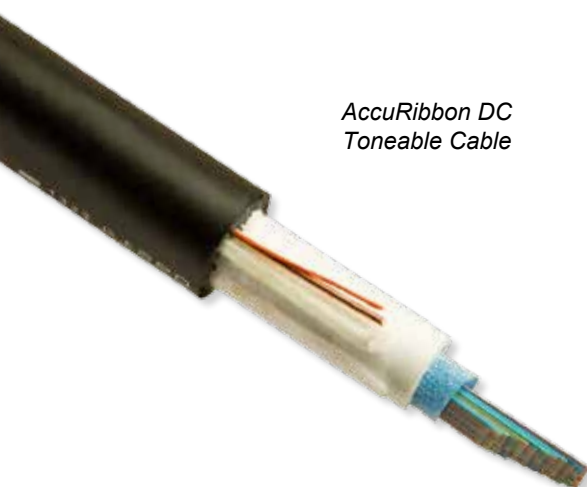




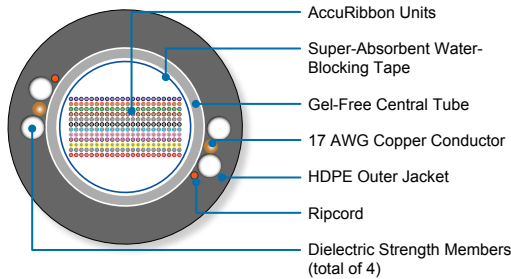
A Furukawa Company

AccuRibbon® DC Cable Toneable

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



AccuRibbon DC Toneable Cable



AccuRibbon DC Toneable Cable Cross-Section

Features and Benefits

- Optimized design helps enable up to a 300% improvement in air-blown installation performance ¹
- Helps save on deployment costs by reducing cable end preparation time by up to 80% ²
- 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
- 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

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.

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 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.

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).

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
Outer Diameter - in. (mm)	0.50 (12.6)	0.55 (13.9)	0.65 (16.5)	0.78 (19.8)
Weight - lb/kft (kgm/km)	112 (167)	124 (184)	149 (221)	196 (291)

Performance Standard

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

Handling

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	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)		
Maximum Long Term Load:	180 lbf (800 N) - all cables			

* OD = Outer Diameter of Cable See OFS Installation Procedure 042 for sheath preparation and coiling instructions.

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 DC Toneable Central Core Ribbon Cable Ordering Information

Example: AT-3BE833T-*NNN*-7¹ Part Number: AT- *S1 S2 SF S3 S4 S5 S6* - *NNN* - *E*

S1 = Fiber Selection See S1 in Fiber Type table above	S3 = Sheath Construction 8 = All Central Core Products	S5 = Sheath Design 3 = Dry Core (Completely Gel Free)
S2 = Fiber Transmission Performance See S2 in Fiber Type table above	S4 = Central Core Design 3 = 12 Fibers per Ribbon AccuRibbon DC Toneable (≤ 216 fibers) 4 = 24 Fibers per Ribbon AccuRibbon DC Toneable (≥ 264 fibers)	S6 = Central Core - Oversheath T = Toneable
SF = Fiber Type² See SF in Fiber Type table above		NNN = Fiber Count = 012 to 432 E = Custom/Special 7 = 17 AWG Copper Conductors

¹ Part Number shown is for a AccuRibbon DC Toneable 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 DC Toneable Cable: OFS OPTICAL CABLE AT-3BE833T-*NNN*-7 [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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