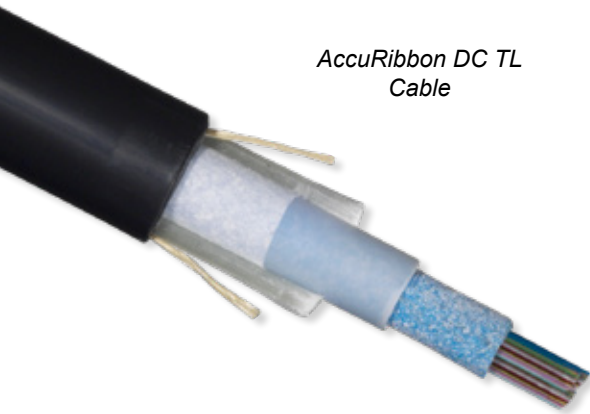




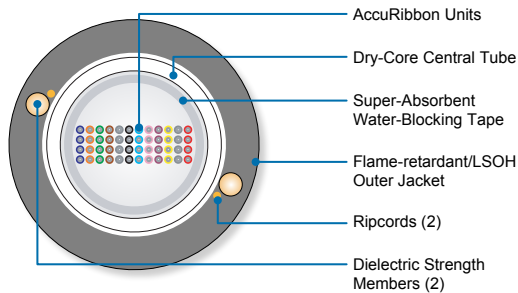
A Furukawa Company

# AccuRibbon® DC TL Cable

A Totally Dry-Core Cable Offering Superior Handling and Faster Deployments for Outdoor/Indoor and Tunnel Applications



AccuRibbon DC TL Cable



AccuRibbon DC TL Cable Cross-Section

## Features and Benefits

- A totally dry-core central tube that contains a super-absorbent tape that absorbs over 100 times its own weight in water
- Unique, dual-purpose cable allows OSP applications to flow seamlessly indoors (one cable, no splices)
- Riser rated (UL 1666) and rated for low smoke/zero halogen (LSOH) applications; meets Telcordia Technologies standards
- Excellent tensile strength and crush performance
- AccuRibbon fiber units for maximum fiber density
- A significantly lower cable weight for faster and easier cable deployment
- Available with OFS application-specific fibers including AllWave® Zero Water Peak (ZWP) and TrueWave® RS Low Water Peak (LWP) Single-Mode Fibers

## Product Description

The AccuRibbon® DC TL Cable is a unique, totally dry, outdoor/indoor cable that allows significant savings on handling and installation time by containing absolutely no gels or messy filling compounds.

The construction of the AccuRibbon DC TL Cable begins with a central tube containing gel-free, water-blocking tape and either 12-fiber or 24-fiber AccuRibbon units. The central tube is then surrounded by an additional layer of water-blocking tape for extra water penetration resistance. To complete the construction, a low smoke/zero halogen (LSOH) jacket with integrated, dielectric strength members is applied. Ripcords are strategically located beneath the jacket for easy cable entry.

## Why the AccuRibbon DC TL Cable?

With its innovative dry-core design, the AccuRibbon DC TL Cable helps facilitate streamlined cable handling and installation by (1) eliminating the need to clean messy filling compounds and (2) offering a reduced weight cable. Unlike traditional outside plant (OSP) fiber optic cables, the AccuRibbon DC TL Cable incorporates a patented, super-absorbent tape in the central tube that results in almost effortless splice preparation and a lower overall cable weight.

AccuRibbon DC TL Cable also combines the flame resistance and safety features of an indoor riser-rated cable with the rugged durability critical for OSP use. The result is a cable that also helps save on time and money by allowing OSP applications to flow seamlessly indoors, using a single cable and no splices. The UL 1666 rating means the AccuRibbon DC TL Cable passes riser rating and difficult flame tests designed to minimize hazardous smoke emissions, also making it an excellent solution for placement in tunnels.

## Specifications

Fiber Count:	12-48	60-144	156-216	264-432
Outer Diameter - in. (mm)	0.51 (13)	0.61 (15.5)	0.71 (18)	0.84 (21.3)
Weight - lb/kft (kgm/km)	120 (179)	165 (245)	204 (304)	270 (402)

## 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*
Minimum Bend Radius, With No Load	10 x OD*
Minimum Bend Radius, Storage Coils	10 x OD*
Maximum Rated Cable Load (MRCL):	600 lbf (2700 N)
Maximum Long Term Load:	180 lbf (800 N)

**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

## Fiber Type<sup>2</sup>

Single-Mode Fiber	Fiber (S1)	Fiber (S2)	Fiber (SF)	Fiber Standards	Wavelengths (nm)	Typical * Attenuation (dB/km)	Maximum Cable on Reel Attenuation (dB/km)
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 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
<b>Multimode Fiber</b>							
62.5 μm Fiber	R	U	9	OM1 62.5 μm	850/1300	-	3.4/1.0
LaserWave® FLEX 300 Fiber	L	F	2	OM3 50 μm	850/1300	-	2.4/0.7
LaserWave FLEX 550 Fiber	L	H	2	OM4 50 μm	850/1300	-	2.4/0.7

## AccuRibbon DC TL Central Core Ribbon Cable Ordering Information

Example: AT-3BE83XX-NNN<sup>1</sup> Part Number: AT- S1 S2 SF S3 S4 S5 S6 - NNN

### S1 = Fiber Selection

See S1 in Fiber Type table above

### S3 = Sheath Construction

8 = All Central Core Products

### S5 = Sheath Design

X = Totally Gel-Free All-Dielectric AccuRibbon DC TL

### S2 = Fiber Transmission Performance

See S2 in Fiber Type table above

### S4 = Central Core Design

3 = 12 Fibers per Ribbon AccuRibbon DC TL (≤ 216 fibers)

S6 = Central Core - Oversheath  
 X = No Oversheath

4 = 24 Fibers per Ribbon AccuRibbon DC TL (≥ 264 fibers)

### SF = Fiber Type<sup>2</sup>

See SF in Fiber Type table above

NNN = Fiber Count = 012 to 216 (Dielectric)  
 264 to 432 (Dielectric)

<sup>1</sup> Part Number shown is for a AccuRibbon DC TL 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 TL Cable: OFS OPTICAL CABLE AT-3BE83XX-NNN [MM-YY] (UL) US TYPE OFNR [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

<sup>3</sup> 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](http://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](http://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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