

AccuRibbon® DC TL Cable

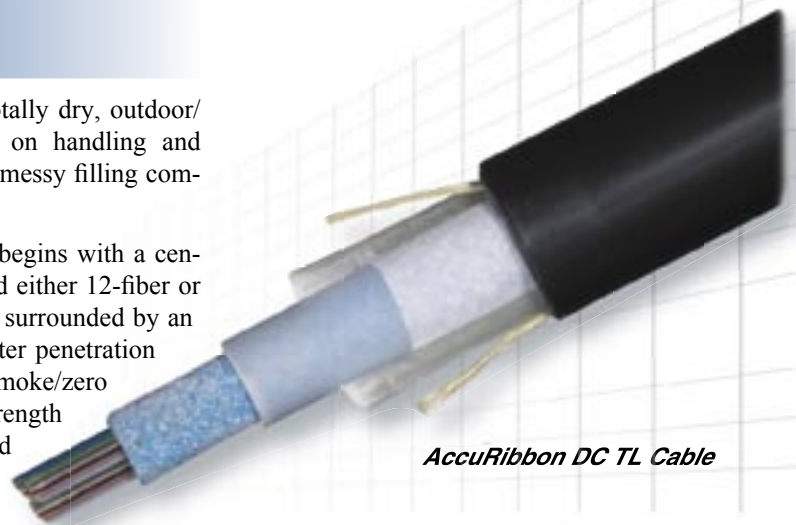


A Totally Dry-Core Cable Offering Superior Handling and Faster Deployment for Outdoor/Indoor and Tunnel Applications

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.

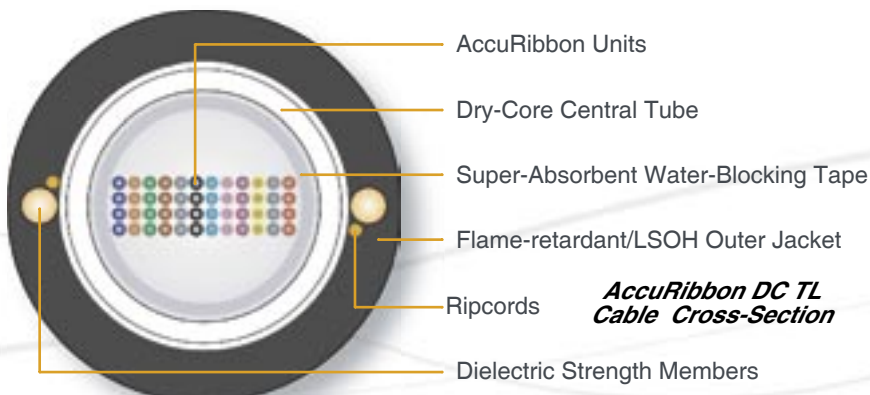


AccuRibbon DC TL Cable

Why the AccuRibbon DC TL Cable?

With its innovative dry-core design, the AccuRibbon DC TL Cable facilitates 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 outside plant use. The result is a cable that also saves on time and money by allowing outside plant applications to flow seamlessly indoors, using a single cable and no splices. The UL 1666 and UL 1685 ratings mean 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.



Features and Benefits:

- A totally dry-core central tube containing 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 UL 1685) and rated for low smoke/zero halogen 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® and TrueWave® fibers

Test and Methods:

Cable Test	Cable Method*	Requirement	Notes
Tensile Loading and Bending	TIA/EIA-455-33	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Cyclic Flexing	TIA/EIA-455-104		
Cyclic Impact	TIA/EIA-455-25		
Twist	TIA/EIA-455-85		
Low and High Temperature Bend	TIA/EIA-455-37		
External Freezing	TIA/EIA-455-98		
Compressive Loading	TIA/EIA-455-41	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss) 440 N/cm (250 lbf/in) Load	1
Fiber Strippability	TIA/EIA-455-178	≤ 9.0 N (2 lbf) on unaged and aged fiber; > 1.0 N (0.2 lbf) on unaged and aged fiber	
Temperature Cycling	TIA/EIA-455-3	≤ 0.05 dB/km Mean Added Loss (≤ 0.15 dB/km Max Added Loss)	
Cable Aging	TIA/EIA-455-3	≤ 0.10 dB/km Mean Added Loss (≤ 0.25 dB/km Max Added Loss)	
Water Penetration	TIA/EIA-455-82	No flow after 24 hours from one meter length of cable	

Specifications:

Fiber Count:	12-48	60-144	156-216	264-432
Outside Diameter – mm (in.):	13 (0.51)	15.5 (0.61)	18 (0.71)	21.3 (0.84)
Cable Weight – kg/km (lb/kft):	193 (130)	250 (168)	305 (205)	367 (247)
Handling:	12-48	60-144	156-216	264-432
Minimum Bend Diameter with Load – cm (in.):	52 (21)	62 (25)	72 (29)	87 (34)
Minimum Bend Diameter without Load – cm (in.):	26 (11)	31 (13)	36 (15)	87 (34)
Maximum Pulling Load (all fiber counts) – kN (lb):	2.7 (600)			
Maximum Operational Load (all fiber counts) – kN (lb):	0.8 (180)			
Temperature (all fiber counts):				
Installation:	-30°C to 60°C (-22°F to 140°F)			
Operation:	-40°C to 70°C (-40°F to 158°F)			
Storage:	-40°C to 75°C (-40°F to 167°F)			

Ordering Information:

Single-Mode AllWave Fiber:	Product Code						
12-Fiber AccuRibbon (12-216)	A3XX-NNN-BXD A3XX-NNN-BXC						
24-Fiber AccuRibbon (264-432)	A4XX-NNN-BXD A4XX-NNN-BXC						
<p><i>Note:</i> NNN = Number of Fibers BXC = 0.35/0.25 dB/km at 1310/1550 nm BXD = 0.40/0.30 dB/km at 1310/1550 nm</p> <p>Available with AllWave® and TrueWave® fibers and other fiber types. Other transmission characteristics are available on a special order basis.</p>							
Maximum Cable Length:	<table border="0"> <tr> <td>(12-144 fibers)</td> <td>7.7 miles (12.4 km)</td> </tr> <tr> <td>(156-216 fibers)</td> <td>6.6 miles (10.6 km)</td> </tr> <tr> <td>(264-432 fibers)</td> <td>3.8 miles (6 km)</td> </tr> </table>	(12-144 fibers)	7.7 miles (12.4 km)	(156-216 fibers)	6.6 miles (10.6 km)	(264-432 fibers)	3.8 miles (6 km)
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- Notes:* 1. Routine Requirements (RR)
2. Qualification Requirement (QR)

* OFS complies with the latest revision of the TIA/EIA Test Method (There is not exact correspondence of TIA/EIA Fiber Optic Test Procedures (FOTPs) and IEC Test Methods.)

For additional information please contact your sales representative. You can also visit our website at <http://www.ofsoptics.com> or call 1-888-fiberhelp. For regional assistance, contact:

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