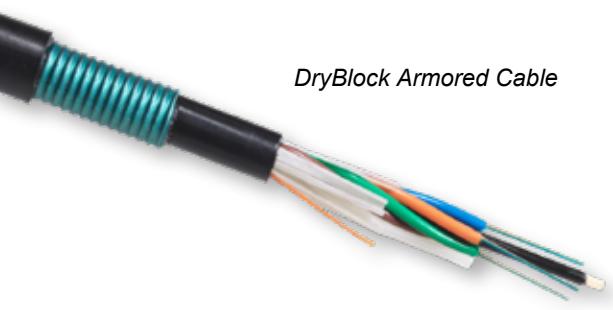




A Furukawa Company

DryBlock® Armored Cable

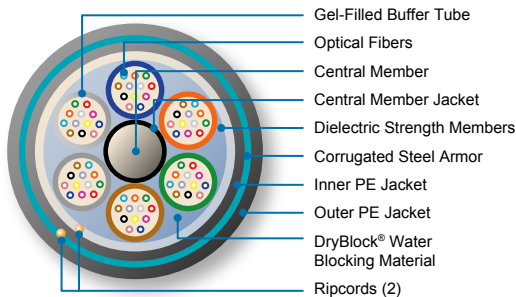
A Highly Durable OSP Cabling Solution Offering Exceptional Reliability and Easy Handling



DryBlock Armored Cable

Features and Benefits

- Offers enhanced compressive strength and rodent resistance
- DryBlock® water-blocking technology for reduced cable preparation and splicing time
- Easy fiber access with ROL stranding and ripcords
- 600 pound (2700 N) rated pulling tension for long pulls
- Flexible, craft-friendly buffer tubes
- are easy to route in closures
- Fiber counts to 288
- Hybrid (fiber/copper) and composite (mix of fiber types) cable designs available for special applications
- Available with OFS application-specific fibers including AllWave® Zero Water Peak (ZWP) and AllWave+ ZWP Single-Mode, TrueWave® RS Low Water Peak (LWP), and Multimode Fibers.



DryBlock Armored Cable Cable Cross-Section

Product Description

The OFS DryBlock® Armored Loose Tube Cable offers an exceptionally rugged and highly reliable cabling solution for a wide range of demanding outside plant (OSP) applications, including direct buried in harsh environments. A layer of corrugated steel armor teams with two robust polyethylene (PE) jackets to deliver the muscle and rodent resistance needed for the most rigorous OSP use, in a cable that remains lightweight and easy to install.

To construct the cable, one to 12 optical fibers are placed within color-coded, gel-filled buffer tubes to protect the fibers from external mechanical and environmental forces and simplify fiber management. The buffer tubes are then stranded around a dielectric central member using the reverse oscillating lay (ROL) stranding method. Unlike other methods, ROL stranding enables quick and easy mid-span entry. DryBlock water-blocking material and dielectric strength elements are then applied to the cable core. Finally, a single layer of electrolytically chrome-coated steel (ECCS) armor is encased between two layers of hardy PE sheathing to complete the cable construction.

Why the DryBlock Armored Cable?

The DryBlock Armored Loose Tube Cable offers an exceedingly durable, dependable solution for the most difficult OSP applications. Dual PE jackets and a layer of ECCS armor provide the outstanding compressive strength and rodent resistance needed to conquer highly challenging direct buried and lashed aerial installations.

By featuring DryBlock water-blocking technology, this armored cable delivers outstanding protection from water penetration while also saving time on cable preparation and splicing. Cables that use DryBlock material require the use of virtually no cleaning solvents during installation, helping to increase efficiency and save on cable preparation and installation time. The craft-friendly, jelly-free core of a DryBlock cable also weighs less and is easier to handle.

The DryBlock Armored Loose Tube Cable is an excellent choice for demanding OSP installations including direct burials, duct, and lashed aerial, along with applications requiring added compressive strength and/or extra rodent resistance.

Specifications

Fiber Count:	2-60	61-72	73-96	97-120	121-144	145-216	217-240	241-288
Outer Diameter - in. (mm)	0.51 (13.0)	0.55 (13.9)	0.61 (15.6)	0.68 (17.3)	0.75 (19.1)	0.75 (19.1)	0.78 (19.9)	0.86 (21.8)
Weight - lb/kft (kgm/km)	104 (155)	119 (177)	149 (221)	180 (268)	215 (320)	213 (317)	234 (348)	269 (401)

Performance Standard (all cables)

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

Handling

Minimum Bend Radius, With Load	15 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)
	(upon request):	-76 °F to 158 °F	(-60 °C to 70 °C)
	Storage:	-40 °F to 167 °F	(-40 °C to 75 °C)

* **NOTE:** OD = Outer Diameter of Cable, minimum of 6 in. (15 cm). See OFS Installation Procedure 042 for sheath preparation and coiling instructions.

Fiber Type²

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	0.34/0.31/0.22
AllWave ULL Fiber	3	H	E	G.652.D/G.657.B	1310/1550	0.31/0.17	0.33/0.19
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	0.19	0.25
TeraWave ULL Fiber	6	9	R	G.654.E	1550	0.18	0.22
Multimode Fiber							
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

DryBlock Armored Loose Tube Cable Ordering Information

Example: AT-3BEN2TT-NNN¹ Part Number: AT- S1 S2 SF S3 S4 S5 S6 - NNN

S1 = Fiber Selection

See S1 in Fiber Type table above

S3 = Sheath Construction

N = Double Jacket, Single Armor

S5 = Core Type

T = 2.5 mm Gel-Filled Buffer Tubes

S2 = Fiber Transmission Performance

See S2 in Fiber Type table above

S4 = Tensile Load

2 = 600 lb. (2700 N)

S6 = Fibers per Tube

2 = 2 fibers 8 = 8 fibers
4 = 4 fibers N = 10 fibers
6 = 6 fibers T = 12 fibers

SF = Fiber Type²

See SF in Fiber Type table above

NNN = Fiber Count = 002 – 288

¹ Part Number shown is for a DryBlock Armored 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 Cable Print, example for DryBlock Armored Cable: OFS OPTICAL CABLE AT-3BEN2TT-NNN [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.

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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