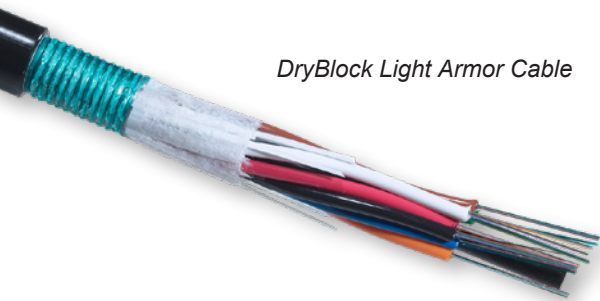




A Furukawa Company

# DryBlock® Light Armor Cable

A Durable, Flexible OSP Cabling Solution Offering Outstanding Reliability and Easy Handling



DryBlock Light Armor Cable

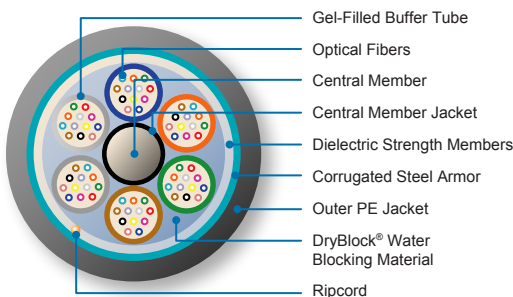
## Features and Benefits

- Offers excellent crush resistance and protection from rodent attacks
- Lightweight, flexible cable is easy to handle and install
- DryBlock water-blocking material for a more craft-friendly, jelly-free cable core, reducing cable preparation and splicing time.
- Easy fiber access with ROL stranding and ripcords
- 600 pound (2700 N) rated pulling tension for long pulls
- Fiber counts to 288
- Hybrid (fiber/copper) and composite (mix of fiber types) cable designs available for special applications
- RDUP listed; meets Telcordia Technologies Standards
- Available with OFS application-specific fibers including AllWave® Zero Water Peak (ZWP) and AllWave+ Single-Mode, TrueWave® RS Low Water Peak (LWP), and Multimode Fibers.

## Product Description

The OFS DryBlock® Light Armor Loose Tube Cable has long been a popular cabling solution for outside plant (OSP) applications, including duct, lashed aerial, and direct buried installations in harsh environments. Corrugated steel armor and a robust polyethylene (PE) jacket combine to deliver rugged durability and added rodent resistance in an RDUP-listed cable that remains lightweight, flexible, and easy to install.

To construct this 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 and a hefty PE jacket are added to complete the cable construction.



DryBlock Light Armor Cable Cross-Section

## Why the DryBlock Light Armor Cable?

The DryBlock Light Armor Loose Tube Cable offers the “best of both worlds” – excellent compressive strength and rodent resistance in a cable that is lightweight and easy to install.

By featuring DryBlock water-blocking technology, this 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 save on cable preparation and deployment time. The craft-friendly, jelly-free core of a DryBlock cable also weighs less and is easier to handle.

The small outer diameter of the DryBlock Light Armor Cable simplifies handling, and ROL stranding of the buffer tubes allows fast mid-span entry.

The DryBlock Light Armor Loose Tube Cable is an excellent choice for duct, lashed aerial, and direct buried installations in challenging environments.

## Specifications

Fiber Count:	2-60	61-72	73-96	97-120	121-144	145-216	217-240	241-288
Outer Diameter - in. (mm)	0.46 (11.7)	0.48 (12.3)	0.56 (14.1)	0.62 (15.7)	0.69 (17.5)	0.69 (17.6)	0.72 (18.4)	0.79 (20.1)
Weight - lb/ft (kgm/km)	86 (128)	99 (147)	122 (182)	155 (231)	186 (277)	185 (276)	203 (302)	241 (359)

## 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):	-60 °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 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	-
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	0.34/0.31/0.22
AllWave One Fiber	3	F	E	G.652.D/G.657.A1	1310/1385/1550	0.33/0.31/0.19	0.34/0.31/0.22
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	0.19	0.25
TeraWave ULL Fiber	6	9	R	G.654.B	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	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

## DryBlock Light Armor Loose Tube Cable Ordering Information

Example: AT-3BEH2TT-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

H = Single 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 Type<sup>2</sup>

See SF in Fiber Type table above

NNN = Fiber Count = 002 – 288

<sup>1</sup> Part Number shown is for a DryBlock Light Armor 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 DryBlock Light Armor Cable: OFS OPTICAL CABLE AT-3BEH2TT-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.

**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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