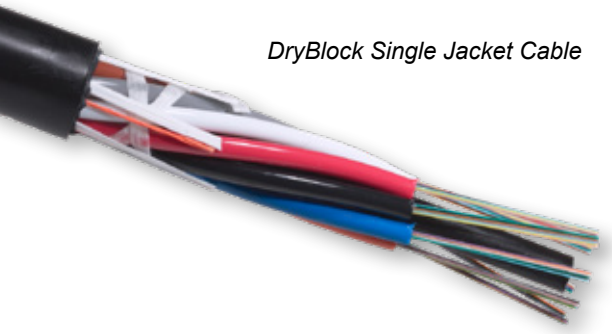
ofs
A Furukawa Company

DryBlock® Single Jacket Cable

A Classic OSP Cabling Solution Offering Outstanding Flexibility, Durability, and Reliability



DryBlock Single Jacket Cable

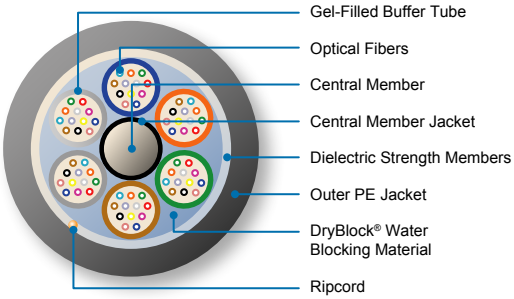
Features and Benefits

- Lightweight, flexible, and easy to install, yet highly durable and reliable
- Small cable outer diameter (OD) for ease of handling
- ROL stranding and ripcords for fast mid-span cable entry
- 600 pound (2700 N) rated pulling tension for long pulls
- DryBlock water-blocking technology for a more craft-friendly, jelly-free cable core
- 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+ Single-Mode, TrueWave® *RS* Low Water Peak (LWP), and Multimode Fibers.

Product Description

The OFS DryBlock® Single Jacket Loose Tube Cable is a classic outside plant (OSP) cabling solution. This small diameter, lightweight cable offers the flexibility needed for duct and lashed aerial applications along with the durability critical for OSP use.

To construct the DryBlock Single Jacket 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. 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 applied to the cable core. Finally, a durable outer polyethylene (PE) jacket is added to complete the cable construction.



DryBlock Single Jacket Cable Cross-Section

Why the DryBlock Single Jacket Cable?

The DryBlock Single Jacket Loose Tube Cable combines ready flexibility with the rugged durability and reliability needed for outdoor applications. The result is a time-proven OSP cabling solution that is easy to handle and install, yet robust enough for the rigors of the outside environment.

The small outer diameter of the DryBlock Single Jacket Cable makes handling easier, and ROL stranding of the buffer tubes allows fast mid-span entry. This cable also incorporates DryBlock water-blocking technology for a more craft-friendly, jelly-free cable core that is lighter in weight and easier to handle, saving on cable preparation and installation time.

The DryBlock Single Jacket Loose Tube Cable is an excellent choice for lashed aerial, duct, and general OSP applications.

Specifications								
Fiber Count:	**2-60**	**61-72**	**73-96**	**97-120**	**121-144**	**145-216**	**217-240**	**241-288**
Outer Diameter - in. (mm)	0.39 (9.9)	0.41 (10.5)	0.48 (12.3)	0.55 (13.9)	0.62 (15.7)	0.62 (15.7)	0.65 (16.5)	0.72 (18.3)
Weight - lb/kft (kgm/km)	52 (77)	60 (89)	80 (119)	104 (155)	130 (193)	127 (189)	144 (214)	176 (262)

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[2]

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.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	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 Single Jacket Loose Tube Cable Ordering Information

Example: AT-3BE12TT-*NNN* [1] Part Number: **AT-** *S1 S2 SF S3 S4 S5 S6* **-** *NNN*

S1 = **Fiber Selection**
See S1 in Fiber Type table above

S2 = **Fiber Transmission Performance**
See S2 in Fiber Type table above

SF = **Fiber Type** [2]
See SF in Fiber Type table above

S3 = **Sheath Construction**
1 = Single Jacket All Dielectric

S4 = **Tensile Load**
2 = 600 lb. (2700 N)

S5 = **Core Type**
T = 2.5 mm Gel-Filled Buffer Tubes

S6 = **Fibers per Tube**
2 = 2 fibers **8** = 8 fibers
4 = 4 fibers **N** = 10 fibers
6 = 6 fibers **T** = 12 fibers

NNN = **Fiber Count** = 002 – 288

[1] Part Number shown is for a DryBlock Single Jacket 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 Single Jacket Cable: OFS OPTICAL CABLE AT-3BE12TT-NNN [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.

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.

OFS Marketing Communications
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