

AccuBreeze® FX

Cabled Fiber Unit

Increasing the Cost-Effectiveness and Range of Deployment Options for Access Networks

Product Description

The AccuBreeze® FX Cabled Fiber Unit (CFU) is a small, cost-effective acrylate fiber unit specifically designed for air-blown installation applications, using microduct systems in access networks. To construct the AccuBreeze FX CFU, up to 12 color-coded optical fibers are gathered to form a small fiber bundle. This fiber bundle is then placed in a soft acrylate inner layer that cushions the fibers. This inner layer is next encased in a protective hard acrylate outer layer in which glass spheres are embedded. This enhanced outer surface promotes low friction and increased aerodynamic drag for exceptional performance during air-blown installation.

Why the AccuBreeze FX CFU?

The AccuBreeze FX CFU offers a highly effective, low-cost fiber optic solution for access networks. The fiber unit's small size, light weight and enhanced surface help save on time and money with fast, cost-effective air-blown installation.

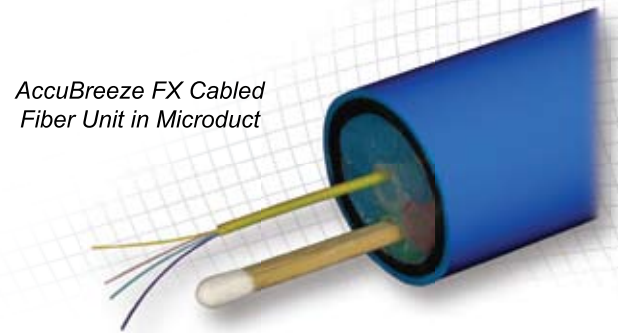
By using the air-blown installation method with inexpensive microduct networks, the AccuBreeze FX CFU further helps save on build costs by eliminating the need for expensive and disruptive excavation along with procuring costly rights-of-way.

The AccuBreeze FX CFU also helps service providers to defer and gain greater control over their initial network build investment by deploying fiber only as needed to meet demand. This capability helps providers in the future to consistently maintain the highest performance fibers in their networks and avoid the costs of procuring additional rights-of-way and constructing new ducts.

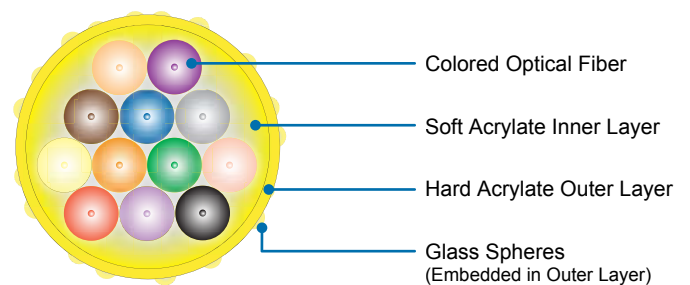
Fiber Color Scheme (fibers 1 through 12)

1 - Blue (BL)	5 - Slate (SL)	9 - White (WH)
2 - Orange (OR)	6 - Yellow (YL)	10 - Black (BK)
3 - Green (GR)	7 - Brown (BR)	11 - Rose (RS)
4 - Red (RD)	8 - Violet (VI)	12 - Aqua (AQ)

AccuBreeze FX Cabled Fiber Unit in Microduct



12 Fibers Shown



AccuBreeze FX CFU Cross-Section

Features and Benefits:

- Small, lightweight, and flexible fiber unit helps save time and money with fast and reliable microduct installation
- Specially designed outer surface promotes low friction and increased aerodynamic drag for exceptional performance during air-blown installation
- Expanded deployment options maximize cost-effectiveness and help "future-proof" networks
- Deploy fiber only as needed for increased cost control
- Fiber counts of 2, 4, 6, 8 and 12
- Available with AllWave *FLEX* ZWP and AllWave® ZWP Single-Mode Fiber, TrueWave® RS LWP Single-Mode Fiber and Multimode Fibers

Specifications

Fiber Count	2	4	6	8	12
Cable Outer Diameter – in. (mm)	0.04 (1.02)	0.04 (1.02)	0.04 (1.15)	0.05 (1.40)	0.06 (1.50)
Cable Weight – lb/kft (kg/km)	0.57 (0.85)	0.57 (0.85)	0.84 (1.25)	1.18 (1.75)	1.34 (2.00)

Performance Standard (all cables)

Tested per Applicable Requirements of IEC 60794-1, BS EN 60068-2 and CW 1500-4.

Handling (all cables)

Temperature:	Installation:	-22° F to 122° F	(-30° C to 50° C)
	Operation:	-40° F to 140° F	(-40° C to 60° C)
	Storage:	-40° F to 158° F	(-40° C to 70° C)

AccuBreeze FX CFU Ordering Information

Example: **AB1-3BE-02-YL¹**

Part Number: AB1 - S1 S2 SF - NNN - SC

AB1 = AccuBreeze Cabled Fiber Unit

S1 = Fiber Selection

- 3 = 1310/1550 nm (AllWave® ZWP Fiber)
- 5 = 1310/1550 nm (AllWave FLEX ZWP Fiber)
- 6 = 1550 nm (TrueWave® RS LWP Fiber)
- R = 850/1300 nm (Multimode Fiber)

S2 = Fiber Transmission Performance

- B = 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm (AllWave ZWP/AllWave FLEX ZWP)
- 2 = 0.25 dB/km @ 1550 nm (TrueWave RS LWP)
- U = 3.4/1.0 dB/km and 200/500 MHz-km @ 850/1300 nm (62.5 µm Multimode)
- K = 2.5/0.7 dB/km and 500/500 MHz-km @ 850/1300 nm (50 µm Multimode)

Fiber Count
Cabled Unit Color

SF = Fiber Type²

- E = AllWave ZWP/AllWave FLEX ZWP
- 6 = TrueWave RS LWP
- 9 = 62.5/125 µm Multimode
- 2 = 50/125 µm Multimode

NNN = Fiber Count = 02, 04, 06, 08 and 12

SC = Cabled Unit Color

- YL = Yellow (Standard for Single-Mode)
- BL = Blue (Standard for 50 µm Multimode)
- RS = Rose (Standard for 62.5 µm Multimode)

¹ Part Number shown is for 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 AccuBreeze FX Cabled Fiber Unit:

OFS ACCUBREEZE FX AA/BB LLLLL DD EE FFFFF

(AA = Week #, BB = Year, LLLLL = Lot #, DD = Fiber Type, EE = Fiber Count and FFFFF = Length in meters)

² Contact OFS Order Management for information on other cable variations, including additional fiber types, attenuation, and custom cable print.



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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) from inside the USA or 1-770-798-5555 from outside the USA.

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osp-133-0409



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