

AccuBreeze™ FX Cabled Fiber Unit

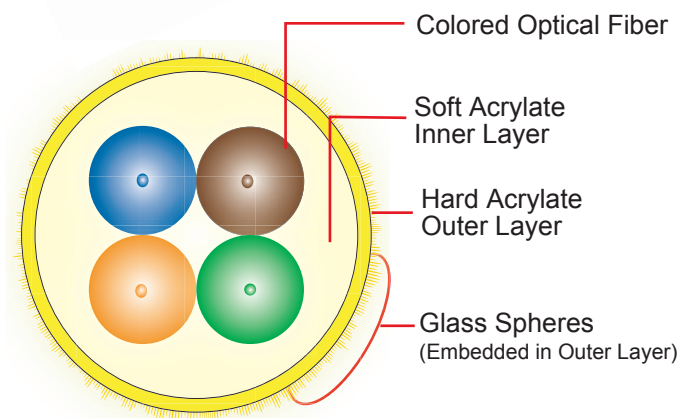
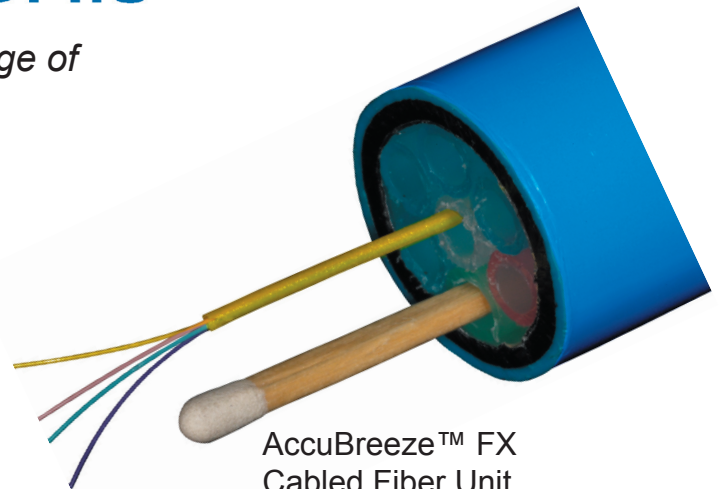
Increasing the Cost-Effectiveness and Range of Deployment Options for Access Networks

Product Description

The AccuBreeze™ FX unit 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 unit, four 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 delivers low-friction and increased aerodynamic drag for exceptional performance during air-blown installation.

Features and Benefits

- Small, lightweight and flexible fiber unit helps save time and money with fast and reliable microduct installation
- Specially designed outer surface delivers low-friction and increased aerodynamic drag for superior air-blown installation performance
- Expanded deployment options maximize cost-effectiveness and help “future-proof” networks
- Deploy fiber only as needed for increased cost control
- Available with OFS fiber designs, including AllWave® and multimode fibers
- Currently available with up to 4 fibers



Why the AccuBreeze™ FX Cabled Fiber Unit?

The AccuBreeze FX unit 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 unit 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 unit 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.

Test and Methods

Cable Test	Test Method	Requirement	Parameters
Tensile Performance	IEC 60794-12-E1	Fiber strain $\leq 0.4\%$ during test, $\leq 0.05\%$ after test. No attenuation change after test.	9 N load, 10 minute duration
Crush Performance	IEC 60794-1-2-E3	No attenuation change after test. No significant damage to unit.	100 N load, 1 minute duration
Bending Performance	IEC 60794-1-2-E11A	No attenuation change after test. No significant damage to unit.	Bend diameter $\leq 40x$ unit diameter, 3 turns, 5 cycles
Cold Test	BS EN 60068-2-1	Attenuation at 1310 and 1550 nm ≤ 0.5 dB/km during test.	-20°C, 96 hour duration
Change of Temperature (Condensation)	IEC 60793-1-52	Attenuation change at 1310 and 1550 nm during and after test ≤ 0.07 dB/km.	65°C, -10°C, 20°C, 93% RH, 10 cycles, 24 hr/cycle
Temperature Cycle	BS EN 60068-2-38	Attenuation change at 1310 and 1550 nm during and after test ≤ 0.07 dB/km.	-10°C, 60°C, 3 cycles
Water Immersion	IEC 60793-1-53	Attenuation change at 1310 and 1550 nm during and after test ≤ 0.07 dB/km. Unit color and identification to remain readily distinguishable.	20°C, 2000 hour immersion

Specifications

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Fiber Count:	up to 4
Outside Diameter:	1.0 mm (0.04 in)
Unit Weight:	0.85 kg/km (0.57 lb/kft)

Handling

Minimum Bend Radius	36 mm (1.4 in)
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Temperature (all fiber counts)

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

Ordering Information

	2 Fiber	4 Fiber
Single-mode AllWave Fiber	300411220	300411238

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

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