

# XpressTube® FX Cabled Fiber Unit



## Maximizing Deployment Options for Metropolitan and Access Networks

### Product Description

The XpressTube® FX Cabled Fiber Unit (CFU) is a lightweight, flexible cabled fiber unit specifically designed for air-blown installation applications, using microduct systems in metropolitan and access networks.

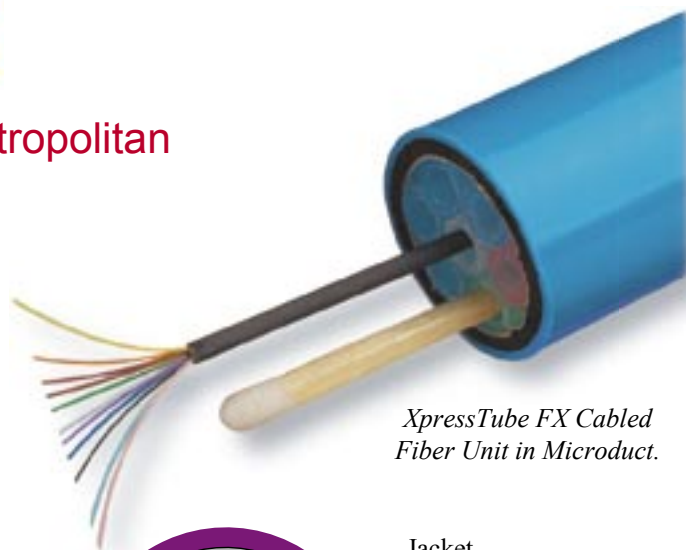
The construction of the XpressTube FX CFU begins with a loose fiber bundle containing up to 12 individual fibers, surrounded by a specially engineered water-blocking compound. A flexible polyolefin jacket, enhanced for increased aerodynamic drag, completes the construction.

XpressTube FX CFUs are installed in duct systems using a process commonly known as air-blowing of fiber. The duct systems used in air-blown fiber applications typically contain a larger duct with multiple inner ducts. XpressTube FX units are air-blown into the smaller, inner ducts using specialized equipment.

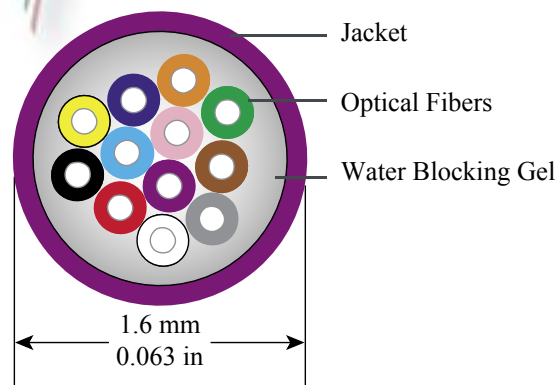
### Why the XpressTube FX Cabled Fiber Unit (CFU)?

The XpressTube FX CFU offers service providers exciting new deployment options for fiber optic network builds. First, providers can defer and gain greater control over build costs since fiber can be installed as needed to meet short- and long-term demand. This flexibility helps to “future-proof” a network with uncertain capacity demands.

XpressTube FX CFU’s easy, cost-effective installation also creates a strategy option where providers can consistently maintain the highest performance fibers in their networks. This is possible because the air-blown systems used allow fiber to be replaced, without modifying the existing duct system or incurring additional right-of-way construction costs.



*XpressTube FX Cabled Fiber Unit in Microduct.*



### Features and Benefits

- Expanded deployment options maximize cost-effectiveness and help “future-proof” networks
- Reduced installation costs with fast and reliable microduct installation
- Deploy fiber only as needed for greater cost control
- Flexible, small diameter fiber unit for easy, air-blown installation
- Available with OFS single-mode fiber designs, including AllWave® and TrueWave® fibers

#### Technical Information

##### Specifications:

Fiber Count:	6 - 12
Outside Diameter - mm (in.):	1.6 mm (0.06 in)
Cable Weight - kg /km (lb/kft):	2.2 kg/km (1.5 lb/kft)

##### Handling:

Maximum Pulling Load	20 N (4.5 lbs)
Temperature	
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)

## Test and Methods

Cable Test	Test Method *	Requirement	Parameters
Tensile Performance	EN 187000 A1/501	Fiber Strain $\leq 0.4\%$ during test	220 N load, 10 minutes
	IEC 794-1-E1	Attenuation change $\leq 0.05$ dB and fiber strain $\leq 0.05\%$ after test	
Crush Performance	IEC 60794-1-2-E3	Attenuation change $\leq 0.01$ dB during test	100 mm plate, 100 N load, 1 minute, 2 tests at different places
		Attenuation change $\leq 0.05$ dB after test	
		No broken fibers	100 mm plate, 100 N load, 1 minute, 2 tests at different places
Bending Performance	IEC 60794-1-2-E11A	Attenuation change $\leq 0.05$ dB after test	Bend diameter $\leq 40\times$ cable diameter, 4 turns, 10 cycles
Temperature Cycle	IEC 60794-1-2-F1 3 cycles	Absolute attenuation $\leq 0.5$ dB during test	Normal temperature = 20°C
		Attenuation change $\leq 0.1$ dB after test	Low temperature = -40°C High temperature = 60°C

## Ordering Information

Position	Description	Options			
S1	Fiber Type & Test Wavelengths	3	Single-mode 1310/1550 nm	<b>Ordering Code:</b> Fiber Spec    Fiber Count    Color S1   S2   S3   S4   S5   S6   S7 XT1 -   -   -   -   -   -   -	
		6	TrueWave® 1550 nm		
		R	Multimode 850/1300 nm		
S2	Fiber Attenuation Specification	<i>Single-Mode Options</i>		<i>Laser Optimized 50µm Multimode Options</i>	
		4	0.40/0.30 dB/km	K	2.5 dB/km, 500MHz*km @ 850 nm 0.7 dB/km, 500MHz*km @ 1300 nm
		B	0.35/0.25 dB/km	J	2.4 dB/km, 550MHz*km @ 850 nm 0.7 dB/km, 600MHz*km @ 1300 nm
		U	0.35/0.23 dB/km	G	2.4 dB/km, 500MHz*km @ 850 nm 0.7 dB/km, 900MHz*km @ 1300 nm
		<i>TrueWave Options</i>		<i>Laser Optimized 62.5µm Multimode Options</i>	
		2	0.25 dB/km	U	3.4 dB/km, 200MHz*km @ 850 nm 1.0 dB/km, 500MHz*km @ 1300 nm
				A	2.9 dB/km, 220MHz*km @ 850 nm 0.7 dB/km, 500MHz*km @ 1300 nm
				C	2.9 dB/km, 350MHz*km @ 850 nm 0.7 dB/km, 900MHz*km @ 1300 nm
S3	Fiber Type	E	AllWave® Single-mode	2	50 µm Laser Optimized Multimode
		6	TrueWave RS Single-mode	9	62.5 µm Laser Optimized Multimode
S4 & S5	Fiber Count	2, 4, 8, 12 fiber counts available			
S6 & S7	Cabled Unit Color	<i>Single-Mode Standard</i>		<i>Multimode Standards</i>	
		YL	Yellow (Standard for Single-mode)	BL	Blue (Standard for Laser Optimized 50 µm)
				RD	Red (Standard for Laser Optimized 62.5 µm)

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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