

MiDia® FX Plus Cable

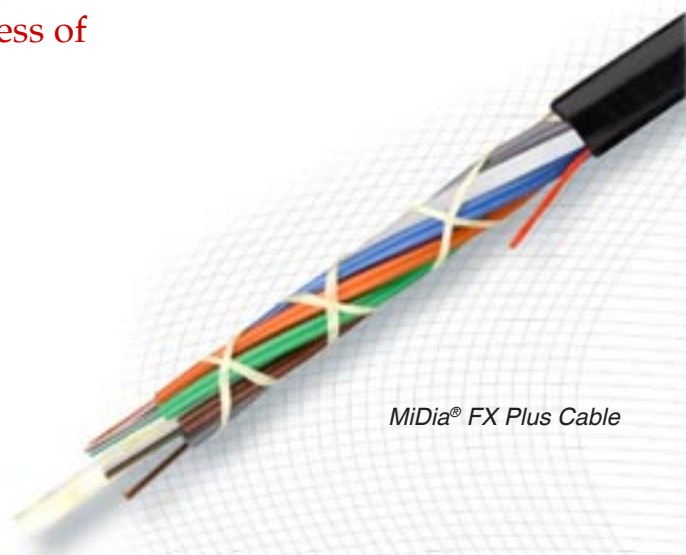


Maximizing the Capacity and Cost-effectiveness of Metropolitan Fiber Access

Product Description

The MiDia® FX Plus Cable is a reduced diameter cable that can dramatically lower the cost of fiber optic deployment while maximizing capacity in congested metropolitan networks. Specifically designed for air-blown installation using microduct systems, MiDia FX Plus Cable is size-optimized for a maximum of 72 fibers.

To construct this all-dielectric cable, the optical fibers are placed in space-efficient, gel-filled buffer tubes that protect the fibers. The color-coded tubes are then stranded around a dielectric central member using the reverse oscillating lay (ROL) stranding technique for easy, mid-span fiber access. DryBlock® water-blocking material is then applied for exceptional water-blocking performance and faster cable preparation. A ripcord and a highly durable polyethylene jacket complete the cable construction.



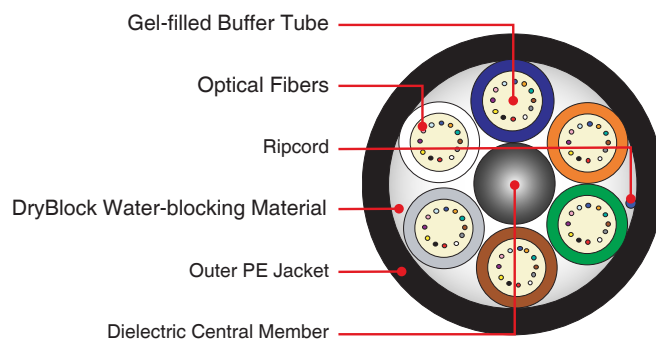
MiDia® FX Plus Cable

Why the MiDia FX Plus Cable?

The MiDia FX Plus Cable's small outer diameter and high fiber density maximize capacity in heavily congested duct systems where space is at a premium (as in city networks).

MiDia FX Plus Cable's lightweight, flexible design can also save time and money with fast and easy air-blown installation. By using the air-blown method with inexpensive microduct networks, MiDia FX Plus Cable further helps save on build costs by eliminating the need for expensive and disruptive excavation along with procuring costly rights-of-way.

MiDia FX Plus Cable also helps service providers to reduce 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, while avoiding the cost of procuring additional rights-of-way and constructing new ducts.



Features and Benefits

- Optimized for air-blown, microduct installations, including networks in heavily congested metropolitan areas
- Lower deployment costs with fast and easy installation
- Reduced diameter and high fiber density ratio maximize capacity in limited spaces
- Deferred build costs with fiber deployed only as needed
- DryBlock design for quicker, cleaner cable preparation for jointing
- Meets Telcordia Technologies GR-20 standards for environmental and mechanical performance
- 300 pound/1335 N Maximum Rated Cable Load (MRCL)
- Features OFS application-specific fibers, including AllWave® Zero Water Peak (ZWP) and TrueWave® Low Water Peak (LWP) Fibers

Specifications

Fiber Count	2-72
Cable Outer Diameter in. (mm)	0.3 in. (7.6 mm)
Cable Weight lb/kft (kgm/km)	34 lb/kft (51 kg/km)

Performance Standard

Tested per Applicable Requirements of
TIA/EIA 455 (IEC 50794)/Telcordia GR-20-CORE, Issue 2

Handling

Minimum Bend Radius, With Load:	20 X OD* (150 mm)
Minimum Bend Radius, With No Load:	10 x OD (75 mm)
Minimum Bend Radius, Storage Coils:	10 x OD (75 mm)
Maximum Rated Cable Load (MRCL):	300 lbf (1335 N)
Maximum Long Term Load	90 lbf (400N)
Temperature	Installation: -15°C to 60°C (5°F to 140°F) Operation: -40°C to 70°C (-40°F to 158°F) Storage: -40°C to 70°C (-40°F to 158°F)

* **Note:** OD = Outer Diameter of Cable

MiDia FX Plus Cable Ordering Information

Example: AT-3BE43ST-NNN¹

	Fiber ²	Sheath	Core	Fiber Count
Part Number: AT-	S1 S2 SF	S3 S4	S5 S6	- NNN
S1 = Fiber Selection 3 = 1310/1550 nm (AllWave® ZWP Single-Mode Fiber) 6 = 1550 nm (TrueWave® RS LWP Single-Mode Fiber) R = 850/1300 nm (Multimode)		S3 = Central Member Construction 4 = MiDia FX Plus		
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) 2 = 0.25 dB/km (TrueWave RS LWP) U = 3.4/1.0 dB/km and 200/500 MHz-km (850/1300 nm Multimode) K = 2.4/0.7 dB/km and 500/500 MHz-km (50 µm Multimode)		S4 = Tensile Load 3 = 300 lb. (1335 N)		
SF = Fiber Type E = AllWave ZWP Single-Mode Fiber 6 = TrueWave RS LWP Single-Mode 9 = 62.5/125 µm Multimode 2 = 50/125 µm Multimode		S5 = Core Type S = 2.0 mm Buffer Tubes		
		S6 = Fibers Per Tube T = 12 Fibers		
		NNN = Fiber Count = 002 to 072		

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 (MiDia FX Plus Cable):
**OFS OPTICAL CABLE AT-3BE43ST-NNN [MM-YY] [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



For additional information please contact your sales representative. You can also visit our website at <http://www.ofsoptics.com> or call 800-366-3483.

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