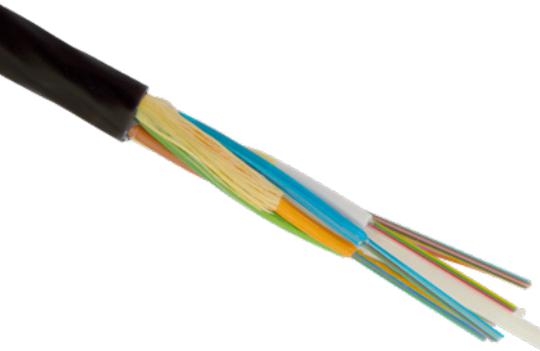




A Furukawa Company

MiDia® Micro FX Loose Tube Cable

Maximizing the Capacity and Cost-Effectiveness of Metropolitan Fiber Access



MiDia Micro FX Cable

Features

- Optimized for air-blown, microduct installation
- Reduced outer diameter and high fiber density
- Compiles with Telcordia GR-20 standards (as a special applications cable)
- Passes ICEA-640 Section 7.34, Mid-Span Buffer Tube Storage Test
- Fiber counts of 2-144

Benefits

- Fast and easy installation helps to lower deployment costs
- Maximizes capacity in limited spaces
- Eliminates need for excavation and procuring rights-of-way
- Deferred build costs - deploy fiber only as needed
- Capable of buffer tube storage in above-ground pedestals or underground closures

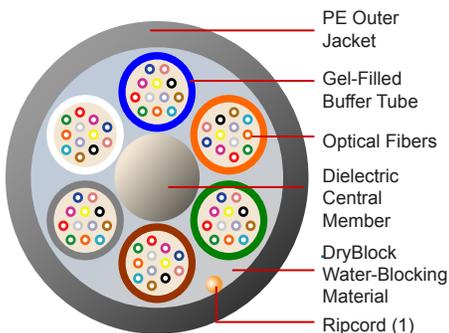
Product Description

The reduced diameter MiDia Micro FX Cable can help to dramatically lower the cost of fiber optic deployment while maximizing capacity in congested networks. Specifically designed for air-blown installation using microduct systems, the MiDia Micro FX Cable is size-optimized for fiber counts up to 144. While the rifled outer jacket and optimized buffer tubes support long, continuous blowing distances, this cable also offers crush resistance that is similar to larger, heavier outside plant cables (200 N/cm). DryBlock® water-blocking material provides exceptional water penetration resistance and faster cable preparation.

Why the MiDia Micro FX Cable?

The MiDia Micro FX Cable's small outer diameter and high fiber density help to maximize capacity in heavily congested duct systems where space is at a premium (such as city networks). The lightweight, flexible cable design can also help to save time and money with fast and easy air-blown installation using microducts, saving time and money by eliminating the need for expensive, disruptive excavation along with procuring costly rights-of-way.

The MiDia Micro FX Cable also helps service providers to reduce their initial network building investment by deploying fiber only as needed to meet demand. This capability can help providers in the future to consistently maintain the highest performance fibers in their networks, while avoiding the cost of constructing new ducts.



*MiDia Micro FX Cable
72-Fiber Cross-section*

Specifications

Fiber Count:	2-72	73-96	97-144
Recommended Duct Size mm*	12/10 (12.7/10)	12/10 (16/12)	16/13 (18/14)
Cable Outer Diameter in. (mm)	0.25 (6.4)	0.30 (7.5)	0.38 (9.7)
Cable Weight lb/kft (kgm/km)	22 (33)	34 (50)	55 (82)

***NOTE: First listed duct size is for duct installations only. Second listed duct size is for direct buried use.**

Performance Standard

The MiDia Micro FX Cable is tested per Applicable Requirements of ANSI/ICEA S-87-640, TIA/EIA-455 (IEC 60794) and Telcordia GR-20-CORE Issue 4.

NOTE: The MiDia Micro FX Cable is not recommended for aerial applications.

Handling

Fiber Count:	2-72	73-96	97-144
Minimum Bend Radius, with load (in.)	8	8	8
Minimum Bend Radius, no load (in.)	6	6	8
Minimum Bend Radius, storage (in.)	6	6	7
Tensile Rating (lb)	300	300	300

Temperature:

Installation: 5 °F to 140 °F (-15 °C to 60 °C)
 Operation: -40 °F to 158 °F (-40 °C to 70 °C)
 Storage: -40 °F to 158 °F (-40 °C to 70 °C)

Fiber Type ²	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 Low Loss Fiber	3	A	E	G.652.D	1310/1385/1550	0.33/0.31/0.19	0.34/0.31/0.22
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
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	R	F	2	OM3 50 µm	850/1300	-	2.4/0.7
LaserWave FLEX 550 Fiber	R	H	2	OM4 50 µm	850/1300	-	2.4/0.7

MiDia Micro FX Loose Tube Cable Ordering Information

Example: AT-3BE43CT-NNN¹

Part Number: AT- S1 S2 SF S3 S4 S5 S6 - NNN

S1 = Fiber Selection

See S1 in Fiber Type table above

S3 = Sheath Construction

4 = MiDia Micro FX Loose Tube Cable

S5 = Core Type

C = 1.7 mm Gel-Filled Buffer Tubes

S2 = Fiber Transmission Performance

See S2 in Fiber Type table above

S4 = Tensile Load

3 = 300 lb. (1335 N)

S6 = Fibers per Tube

T = 12 fibers per tube

SF = Fiber Type²

See SF in Fiber Type table above

NNN = Fiber Count = 002 – 144

¹ Part Number shown is for a MiDia Micro FX Cable with standard AllWave FLEX ZWP attenuation and standard cable print. Maximum AllWave FLEX ZWP attenuation: 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm. Standard Print, example for MiDia Micro FX Cable: OFS OPTICAL CABLE AT-3BE43CT-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.



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