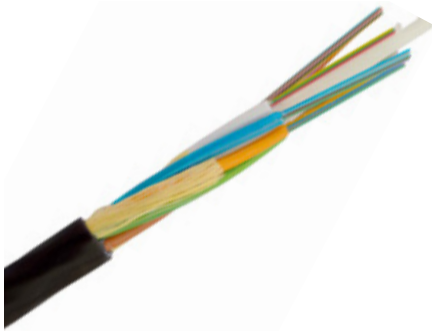




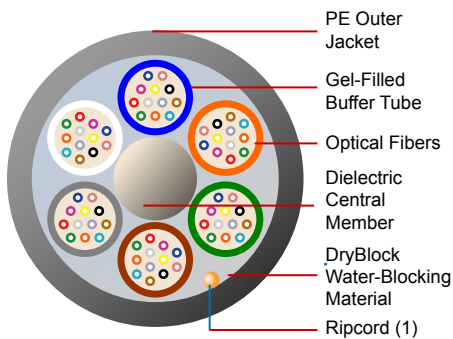
A Furukawa Company

MiDia® Micro FX Loose Tube Cable

Maximizing the Capacity and Cost-Effectiveness of Metropolitan Fiber Access



MiDia Micro FX Cable



MiDia Micro FX Cable
72-Fiber Cross-section

Features

- Optimized for air-blown, microduct installation
- Reduced outer diameter and high fiber density
- Complies 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 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.

Specifications

Fiber Count:	2-72	73-96	97-144	*NOTE: First listed duct size is for duct installations only. Second listed duct size is for direct buried use.
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)	

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	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)
Static Condition in. (mm)	6 (150)	12 (300)	13 (320)	
Dynamic Condition in. (mm)	12 (300)	24 (600)	26 (640)	
Storage Coils in. (mm)	18 (460)	18 (460)	18 (460)	
Tensile Rating lb (N)	300 (1335)	300 (1335)	300 (1335)	

Fiber Type²

Single-Mode Fiber	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 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
AllWave ULL Fiber	3	H	E	G.652.D/G.657.B	1310/1550	0.31/0.17	0.33/0.19
Multimode Fiber							
62.5 µm Fiber	R	U	9	OM1 62.5 µm	850/1300	-	3.4/1.0
LaserWave® FLEX 300 Fiber	L	F	2	OM3 50 µm	850/1300	-	2.4/0.7
LaserWave FLEX 550 Fiber	L	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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