



A Furukawa Company

## MiDia<sup>®</sup> 200 Micro FX Cable

New Generation Cable Helps Maximize Fiber Capacity, Cost Effectiveness and Performance for Metropolitan Fiber Access



MiDia<sup>200</sup> Micro FX Cable

### Features and Benefits

- Helps maximize fiber capacity and performance
- OFS 200 micron bend-optimized fibers for a smaller diameter, high-performance microcable (fibers meet or exceed ITU-T G.657.A1/A2 and IEC 60793-2-50 B-657.A1/A2 standards)
- Helps to lower deployment costs and eliminate the need for excavation and procuring costly rights-of-way
- OFS 200 micron AllWave<sup>®</sup>+ fiber with 9.2 micron mode field diameter offers seamless splicing, testing and faster network turn-up
- Fiber counts of 144, 192, 240 and 288
- May help reduce the number of fiber optic cables needed
- Helps to achieve longer air-blown installation distances
- Meets IEC 60794-1-2 and IEC 60794-5 for reliable performance

### Product Description

OFS developed the MiDia<sup>200</sup> Micro FX Cable to help meet the challenges of an ever-increasing demand for higher bandwidth and fiber capacity along with the growing physical congestion in underground duct systems. This latest-generation cabling solution can help take metro networks to the next level with increased fiber density, enhanced performance and significantly greater deployment cost savings.

The MiDia<sup>200</sup> Micro FX Cable capitalizes on OFS enhancements in optical fiber, leading to the development of 200 micron bend-optimized fibers. These bend-optimized AllWave *FLEX* ZWP and AllWave *FLEX+* ZWP Fibers require 36 percent less area than conventional 250 micron coated fibers, enabling reduced diameter cables with a higher fiber count per tube. OFS 200 micron AllWave+ fiber with 9.2 micron mode field diameter offers seamless splicing, testing and faster network turn-up.

### Why the MiDia<sup>200</sup> Micro FX Cable?

With the tremendous increase in fiber density in a single, reduced diameter cable, providers can maximize the use of their network duct systems and infrastructure, using a single cable in one microduct instead of two cables in two microducts. This capability makes it easier to increase fiber counts, even in highly congested ducts, while helping to save on material and installation costs and retaining space for future upgrades or lease.

The lighter weight, more compact MiDia<sup>200</sup> Micro FX Cable also helps customers achieve longer air-blown installation distances. This ability reduces the number of splice points and setups required, potentially saving both time and money. In addition, this reduced diameter microcable allows the use of smaller, more cost-efficient microducts and other accessories, helping to further lower costs for a faster return on investment.

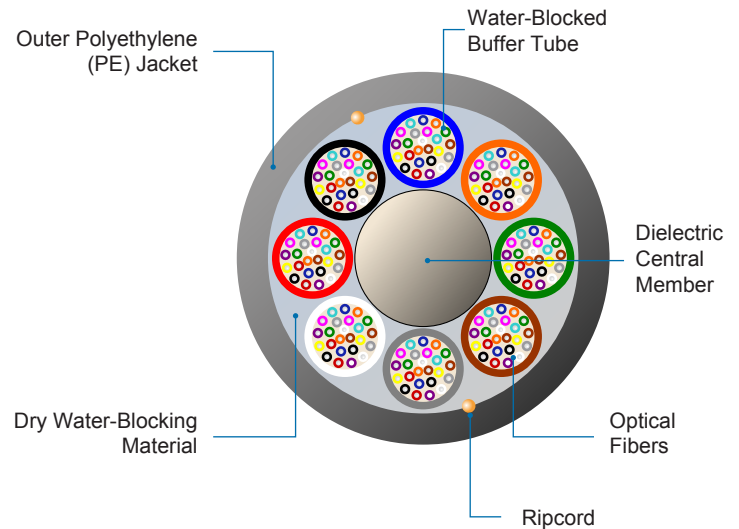


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## MiDia<sup>200</sup> Micro FX Cable

### Design

To construct the MiDia<sup>200</sup> Micro FX Cable, 200 micron AllWave<sup>+</sup>, AllWave FLEX ZWP or AllWave FLEX+ ZWP bend-optimized single-mode optical fibers are placed in water-blocked buffer tubes to protect the fibers from external forces. The optical fibers and buffer tubes are color coded for ready identification. The buffer tubes are then stranded around a dielectric central member using the reverse oscillating lay (ROL) stranding technique and dry, water-blocking materials are applied. In the final step, a ripcord and a durable polyethylene (PE) jacket are added to complete the cable construction.



### Specifications

Fiber Count	144	192	240	288
Cable Outer Diameter - mm	6.3	7.6	8.4	9.6
Cable Weight - kg/km	40	55	75	90

### Performance Standard

The MiDia<sup>200</sup> Micro FX Cable meets IEC 60794-1-2 and IEC 60794-5 for reliable performance.

The 200 micron bend optimised AllWave+ and AllWave FLEX ZWP fiber meets ITU-T G.657.A1 and IEC 60793-2-50 B-657.A1

The 200 micron bend optimised AllWave FLEX+ ZWP fiber meets ITU-T G.657.A2 and IEC 60793-2-50 B-657.A2

### Handling

Fiber Count	144	192	240	288
Tensile Performance (short-term) N	800	1100	1500	1700
Crush Performance (short-term) N	1000	1000	1000	1000
Bending Performance (radius) mm, Installed	75	125	130	150
During Installation	150	250	210	250

### Temperature

Installation: -15°C to 40°C

Operation: -30°C to 70°C

Storage: -40°C to 70°C

### Standard Microcable Lengths

The MiDia<sup>200</sup> Micro FX Cable is available in 2,000, 4,000, 6,000 and 8,000 meter lengths.

**For additional information please contact your sales representative.**

You can also visit our website at [www.ofsoptics.com](http://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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