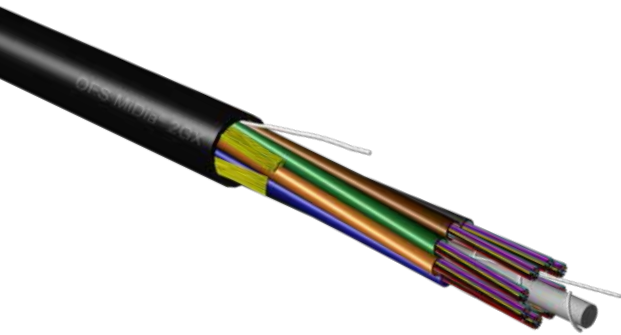




A Furukawa Company

MiDia[®] 200 Micro GX Cable

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



MiDia²⁰⁰ Micro GX Cable (192 Fibers)

Features and Benefits

- OFS 200 micron bend-optimized AllWave[®] FLEX and AllWave[®] FLEX+ Fibers help create a smaller diameter, high-performance microcable
- Fiber counts of 48 to 288
- Dry Core design enables faster, cleaner cable preparation for jointing
- Lighter weight, more compact microcable optimised to achieve longer air-blown installation distances
- Tested to IEC 60794-1-2 and IEC 60794-5 for reliable performance
- Helps to reduce deployment costs and eliminate the need for expensive, disruptive excavation and procuring additional costly rights-of-way
- May help to reduce the number of fiber cables needed for deployment
- Allows the use of smaller, more cost-efficient microducts to help further reduce costs for a faster return on investment
- Outstanding macrobend and microbend attenuation performance

Product Description

The MiDia 200 Micro GX Cable was specifically designed to meet the ever-increasing demand for higher fiber capacity in today's congested, underground urban optical networks. This latest-generation cabling solution can help take metro networks to the next level with increased fiber density, enhanced performance and significantly greater cost-saving opportunities on deployment.

The MiDia 200 Micro GX Cable capitalizes on OFS advancements in optical fiber, leading to the development of 200 micron (μm) bend-optimized fibers that meet or exceed ITU and IEC standards (see Performance Standard for details). These 200 μm fibers require 36 percent less area than conventional 250 μm coated fibers, enabling reduced diameter cables with a higher fiber count per tube. This achievement propelled the creation of a microcable that offers greater fiber density while also providing outstanding macrobend and microbend performance with tight, low bending loss.

Why the MiDia²⁰⁰ Micro GX Cable?

With the MiDia 200 Micro GX Cable, service providers can achieve up to a 100 percent increase in fibre density in a single, reduced diameter cable. This gain in density allows providers to maximize the use of their network duct systems and infrastructure. For example, a deployment requiring two 96-fibre cables could now be replaced by a single 192-fiber MiDia 200 Micro GX Cable installed into an 8/10 mm (ID/OD) microduct. This capability makes it easier to increase fiber counts, even in highly congested duct systems while helping to save on material and installation costs and retaining space for future upgrades or lease.

The light weight, highly compact MiDia 200 Micro GX Cable is designed for seamless installation into existing microduct networks. This microcable can help customers achieve longer air-blown installation distances and reduce the number of splice points and setups required. These capabilities can help customers to potentially save both time and money on deployment.

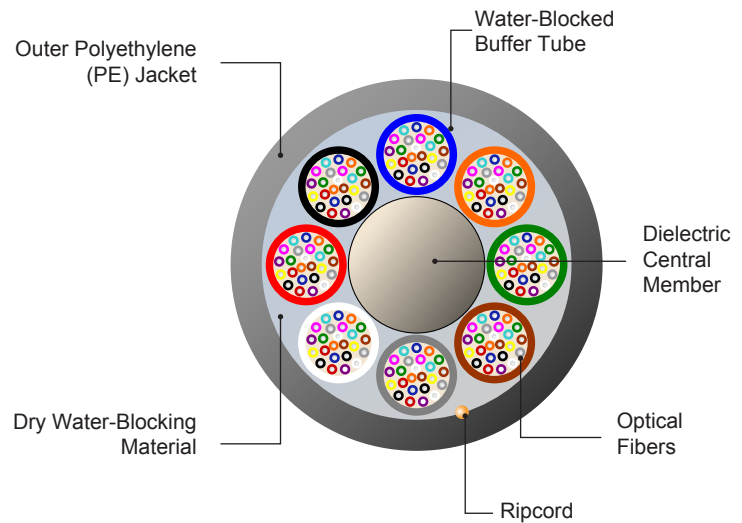


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Design

To construct the MiDia 200 Micro GX Cable, 200 micron 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. The 48f and 96f cable designs also incorporate interstitial filler rods. In the final step, a ripcord and a durable polyethylene (PE) jacket are added to complete the cable construction.



Specifications					
Fiber Count	48	96	144	192	288
Cable Outer Diameter - mm	3.9	4.5	5.7	6.0	8.0
Cable Weight - kg/km	15	18	35	35	60

Performance Standard
 The MiDia²⁰⁰ Micro GX Cable is tested to IEC 60794-1-2 and IEC 60794-5 for reliable performance.
 The 200 micron bend optimised 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	48f	96f	144	192	288
Tensile Performance (short-term) N	500	750	600	800	1300
Crush Performance (short-term) N	1000	500	500	500	500
Bending Performance (radius) mm, Installed	60	40	90	75	80
During Installation	120	80	150	150	160
Recommended minimum duct I.D.	5.5mm	5.5/6 mm	8 mm	8 mm	10 mm

Temperature
 Installation: -15°C to 40°C
 Operation: -30°C to 70°C
 Storage: -40°C to 70°C

Standard Microcable Lengths
 The 48-fiber MiDia 200 Micro GX Cable has a 4000 meter maximum cable length
 The 96, 192 and 288-fiber MiDia 200 Micro GX Cable is available in 2000, 4000, 6000 and 8000 meter lengths.
 The 144-fiber MiDia 200 Micro GX Cable is available in 2000, 4000 and 6000 meter lengths.



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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