



MiDia® & MiDia²⁰⁰ Outside Plant Cable

Helps Increase and Enhance Capacity While Reducing Deployment Costs for Metro Networks



MiDia Dry Core Cable

Features and Benefits

- Specifically optimized for air-blown installation into congested metro networks
- Compact yet durable cable helps speed deployment and save money with longer, continuous installed cable lengths
- Offers high-density communications capacity (helps increase and enhance fiber density and more efficiently use limited space)
- ROL stranded loose tube construction
- Small, space-efficient buffer tubes for a lighter weight, reduced diameter cable
- Easier handling and installation
- Fiber counts of 12 to 864
- Cable water blocked using dry, “water swellable” technology for excellent water penetration resistance and quicker, cleaner cable preparation for jointing
- Meets IEC 60794-1-2 for reliable performance
- MiDia cable available with ranges of OFS AllWave® ZWP Single-Mode Fiber
- MiDia²⁰⁰ Cables use OFS 200 micron bend optimized AllWave FLEX and AllWave FLEX+ fibers. AllWave+ fiber can be used for designs up to 288f

Product Description

The reduced diameter MiDia and MiDia²⁰⁰ Outside Plant (OSP) Cables are an ideal cabling solution for heavily congested duct spaces in metropolitan fiber optic networks. With one of the smallest loose tube cable diameters capable of supporting up to 864 fibers, these lightweight, yet durable cables help save service providers time and money with fast, air-blown deployment into new or existing ducts.

The construction of the MiDia and MiDia²⁰⁰ OSP Cables begin with OFS’ field-proven loose tube designs. Up to 12 (250 micron) or 24 (200 micron) optical fibers are placed into each water-blocked buffer tube to protect the fibers from environmental and mechanical forces. Both the optical fibers and buffer tubes are color coded for easy identification. The buffer tubes are then stranded around a dielectric central member using the reverse oscillating lay (ROL) stranding technique. Next, dry water-blocking material is applied to the cable core for exceptional water penetration resistance and faster cable preparation. For extra mechanical protection, a layer of non-metallic strength elements is then added. To complete the construction, two ripcords are placed beneath a durable, outer polyethylene (PE) jacket for easy cable preparation and sheath removal.

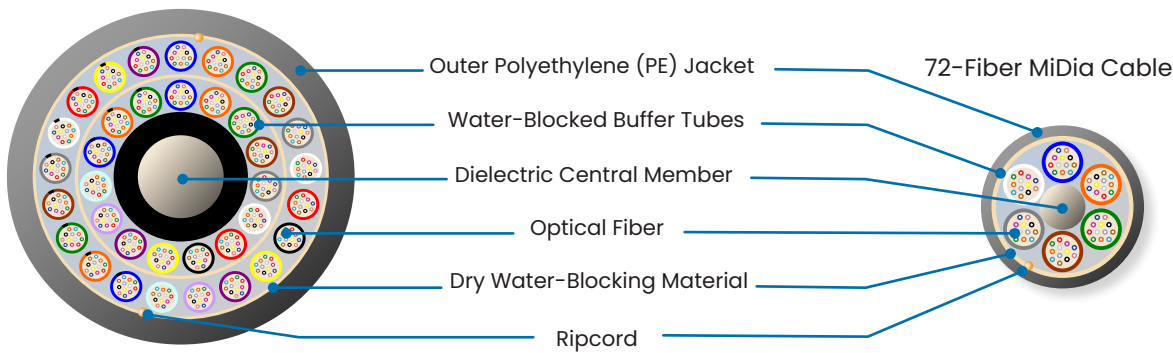
Why the MiDia OSP Cable?

With compact, durable constructions, the MiDia OSP Cables offer an outstanding cable solution for heavily congested metro networks. With a diameter of 13 mm for the 288-fiber cable and 17 mm for the 432-fiber designs, the fiber-dense, reduced diameter cables help enhance and make more efficient use of limited duct space.

Why the MiDia²⁰⁰ OSP Cable?

With the MiDia²⁰⁰ OSP cable, service providers can achieve up to a 100 percent increase in fiber 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 using two MiDia 432 fiber cables could now be replaced by a single 864 fiber MiDia²⁰⁰ cable installed into a 32/26 mm (OD/ID) duct. 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.

432-Fiber MiDia Cable



Note:

- 1) MiDia cables contain 12 x 250 micron fibers per buffer tube.
- 2) MiDia²⁰⁰ cables contain 24 x 200 micron fibers per buffer tube.

| Cable Specifications – MiDia OSP Cable | | | | | |
|---|----------------------|-------------------|-------------------|-------------------|------------------|
| Fiber Count | 12-72 | 96 | 120-144 | 192-288 | 432 |
| Cable Outer Diameter - mm | 7.5 | 8.8 | 11.1 | 13.0 | 17.0 |
| Cable Weight - kg/km | 45 | 70 | 105 | 140 | 230 |
| Handling | | | | | |
| Fiber Count | 12-72 | 96 | 120-144 | 192-288 | 432 |
| Tensile Performance (short-term) N | 650 | 1000 | 1550 | 2050 | 3380 |
| Crush Performance (short-term) N | 750 | 1000 | 1000 | 1500 | 1200 |
| Bending Performance (radius) mm, Installed | 90 | 90 | 90 | 120 | 180 |
| During Installation | 180 | 180 | 180 | 240 | 360 |
| Temperature | | | | | |
| Installation: | -15 °C to + 40 °C | -15 °C to + 40 °C | -15 °C to + 40 °C | -15 °C to + 40 °C | -15 °C to +40 °C |
| Operation: | -30 °C to +70 °C | -30 °C to +70 °C | -30 °C to +70 °C | -30 °C to +70 °C | -30 °C to +60 °C |
| Storage/Shipping: | -40 °C to +70 °C | -40 °C to +70 °C | -40 °C to +70 °C | -40 °C to +70 °C | -40 °C to +60 °C |
| Cable Specifications – MiDia ²⁰⁰ OSP Cable | | | | | |
| Fiber Count | 96-144 | 192 | 240-288 | 864 | |
| Cable Outer Diameter - mm | 7.5 | 8.8 | 11.1 | 17.0 | |
| Cable Weight - kg/km | 50 | 70 | 105 | 235 | |
| Tensile Performance (short-term) N | 650 | 1000 | 1550 | 2700 | |
| Crush Performance (short-term) N | 750 | 1000 | 1000 | 1200 | |
| Bending Performance (radius) mm, Installed | 120 | 120 | 120 | 200 | |
| During Installation | 240 | 240 | 240 | 360 | |
| Temperature | | | | | |
| Installation: | -15 °C to + 40 °C | -15 °C to + 40 °C | -15 °C to + 40 °C | -15 °C to +40 °C | |
| Operation: | -30 °C to +70 °C | -30 °C to +70 °C | -30 °C to +70 °C | -30 °C to +70 °C | |
| Storage/Shipping: | -40 °C to +70 °C | -40 °C to +70 °C | -40 °C to +70 °C | -40 °C to +70 °C | |
| Standard Lengths – MiDia and MiDia ²⁰⁰ OSP Cable | | | | | |
| MiDia | MiDia ²⁰⁰ | 2000 Meters | 4000 Meters | 6000 Meters | 8000 Meters |
| 12-72 Fibers | 96-144 Fibers | ✓ | ✓ | ✓ | ✓ |
| 96 Fibers | 192 Fibers | ✓ | ✓ | ✓ | ✓ |
| 120-144 Fibers | 240-288 Fibers | ✓ | ✓ | ✓ | ✓ |
| 192-288 Fibers | | ✓ | ✓ | ✓ | ✓ |
| 432 Fibers | 864 Fibers | ✓ | ✓ | ✓ | |

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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