



LM200-Series OSP MicroCore® Cable

AFL's LM200-Series OSP MicroCore includes 24 through 432 fiber options. The product design integrates the latest technology, 200 µm buffered single-mode fiber which allows for reduced diameter cables compared to traditional OSP micro-cables. The foundation of the design is the multi-fiber-set, gel-filled buffer tube construction. The kink-resistant buffer tube contains multiple 12-fiber sets of color-coded fibers. Each set within the buffer tube is grouped using dual color-coded binder threads. The dry-blocked core is made up of six buffer tubes SZ-stranded around a central strength member. The low-friction, high-strength overall jacketing system protects the cable-core while providing an optimized cable package supporting high-speed, long-distance jetting performance.

The LM200-Series is the right choice for use in bundled micro-duct pathways allowing for future, incremental cable additions as network circuits and bandwidth requirements increase.

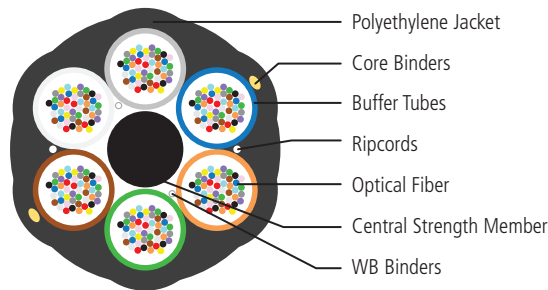
Applications

- Long-haul, Local Loop FTTx, Campus Backbone connections for 10G, 40G and 100G network transmission speeds
- Air-jetted into bundled micro-ducts
- Ideal for congested pathway over-ride installations

Temperature Range

| | |
|--------------|----------------|
| Storage | -30°C to +75°C |
| Installation | -10°C to +40°C |
| Operating | -30°C to +70°C |

Cable Components



Features

- Telcordia GR-20 and IEC 60794-5-10 compliant cable designs provide assurance the OSP cabling system complies with industry-leading standards
- Robust, kink-resistant buffer tubes reduce time and handling issues associated with enclosure build-outs
- Optical fiber meets ITU-T 652D/G.657.A1 single-mode standard assuring that all of today's FTTx and long-haul applications are supported
- Low-friction jacketing system allows for longer jetting distances thus reducing scrap and labor costs
- Designed for use in bundled micro-duct pathways allowing for future, optical circuit additions at a fraction of the cost compared to conventional, single-cable inner-duct installations

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Physical and Mechanical Data

| AFL NO. | FIBER COUNT | FIBERS PER TUBE | MICRODUCT INNER DIAMETER (MM) | DIAMETER | | WEIGHT | | MAXIMUM TENSILE LOAD | | MINIMUM BEND RADIUS | |
|----------------|-------------|-----------------|-------------------------------|----------|------|------------|---------|----------------------|----------|---------------------|----------|
| | | | | INCHES | (MM) | LBS/1000FT | (KG/KM) | LBS (N) | | INCHES (CM) | |
| | | | | | | | | INSTALLATION | LONGTERM | INSTALLATION | LONGTERM |
| LM024BAO6101NS | 24 | 24 | 0.315 (8) | 0.248 | 6.3 | 20 | 30 | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM048BAO6101NS | 48 | 24 | 0.315 (8) | 0.248 | 6.3 | 21 | 31 | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM072BAO6101NS | 72 | 24 | 0.315 (8) | 0.248 | 6.3 | 21 | 31 | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM096BAO6101NS | 96 | 24 | 0.315 (8) | 0.248 | 6.3 | 22 | 33 | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM144BAO6101NS | 144 | 24 | 0.315 (8) | 0.248 | 6.3 | 23 | 34 | 200 | 60 | 5 (13) | 4 (10) |
| LM288BAR6101NS | 288 | 48 | 0.394 (10) | 0.319 | 8.1 | 38 | 56 | 300 | 90 | 6.5 (16.5) | 5 (13) |
| LM432BAT6101NS | 432 | 72 | 0.512 (13) | 0.378 | 9.6 | 54 | 80 | 300 | 90 | 7.5 (19) | 6 (15) |

*Fibers are arranged in 12-fiber sets. Each set is identified by colored binder threads.

Optical Fiber Specifications

| FIBER TYPE | STANDARD | MODE FIELD DIAMETER | ATTENUATION | |
|-------------|-----------------------|---------------------|-------------|---------|
| | | | 1300 nm | 1550 nm |
| Single-mode | ITU-T G.652D / 657.A1 | 9.2 μm nominal | 0.35 | 0.25 |

OSP MicroCore Cable Packaging

| DIMENSIONS | STANDARD REEL LENGTH | REEL WEIGHT |
|--------------|----------------------|-----------------|
| 48 x 30 x 24 | 20000 ft (6,096 m) | 100 lbs (46 kg) |