



LM200-Series OSP MicroCore® Cable

The product design integrates 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.

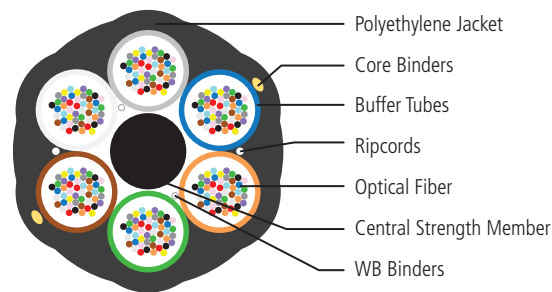
Features

- 24 to 432 fibers
- Robust, kink-resistant buffer tubes reduce time and handling issues associated with enclosure build-outs
- Low-friction jacketing system allows for longer jetting distances
- Designed for use in bundled micro-duct pathways allowing for future, optical circuit additions

Applications

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

Cable Components



continued
→

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Physical and Mechanical Data

| LM200-SERIES AFL NO. | FIBER COUNT | FIBERS/ NUMBER OF TUBES* | DIAMETER | | WEIGHT LBS/1000FT (KG/KM) | MAXIMUM TENSILE LOAD LBS (N) | | MINIMUM BEND RADIUS INCHES (CM) | |
|-------------------------|----------------|--------------------------------|--------------|-------------|-------------------------------------|---------------------------------|-----------|------------------------------------|-----------|
| | | | INCHES (MM) | INCHES (MM) | | INSTALLATION | OPERATION | INSTALLATION | OPERATION |
| LM024BCO6101NS | 24 | 24/1 (5 fillers) | 0.248 (6.3) | 0.315 (8) | 21 (31) | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM048BCO6101NS | 48 | 24/2 (4 fillers) | 0.248 (6.3) | 0.315 (8) | 22 (33) | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM072BCO6101NS | 72 | 24/3 (3 fillers) | 0.248 (6.3) | 0.315 (8) | 23 (34) | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM096BCO6101NS | 96 | 24/4 (2 fillers) | 0.248 (6.3) | 0.315 (8) | 24 (36) | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM144BCO6101NS | 144 | 24/6 | 0.248 (6.3) | 0.315 (8) | 26 (39) | 200 (890) | 60 (267) | 5 (13) | 4 (10) |
| LM288BCR6101NS | 288 | 48/6 | 0.319 (8.1) | 0.394 (10) | 43 (65) | 300 (1334) | 90 (400) | 6.5 (17) | 5 (13) |
| LM432BCT6101NS | 432 | 72/6 | 0.409 (10.4) | 0.512 (13) | 70 (104) | 300 (1334) | 90 (400) | 8.5 (21) | 6.5 (16) |

* Fibers are arranged in buffer tubes using 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 |

Standard Packaging Details

| FIBER COUNT | REEL DIMENSIONS (Flange x Width) | STANDARD REEL LENGTH | REEL WEIGHT | TYPICAL TOTAL WEIGHT |
|-------------|-------------------------------------|-------------------------|------------------|-------------------------|
| 24-288 | 48 x 36 in. | 19,000 ft (5,791 m) | 140 lbs (64 kg) | 1,100 lbs (500 kg) |
| 432 | 58 x 38 in. | 19,000 ft (5,791 m) | 435 lbs (197 kg) | 1,900 lbs (862 kg) |

Recommended Products

| DESCRIPTION | AFL NO. |
|---|---|
| Apex™ X-2 Sealed Splice Closure | Refer to spec sheet for AFL No. |
| Apex™ X-2S Sealed Splice Closure | Refer to spec sheet for AFL No. |
| Poli-MOD® Patch and Splice Module | Refer to spec sheet for AFL No. |
| FUSEConnect® MPO Splice-on Connectors | Refer to spec sheet for AFL No. |
| FUSEConnect® Field-installable Splice-on Connectors | Refer to spec sheet for AFL No. |

Temperature Specifications

| TEMPERATURE RANGE | |
|-------------------|----------------|
| Operation | -30°C to +70°C |
| Storage | -30°C to +75°C |
| Installation | -10°C to +40°C |

Qualifications

| GOVERNING BODY | STANDARD CODE | COMPONENT |
|----------------|---------------|---------------------------------------|
| Telcordia | GR-20-CORE | Water-Blocked Cabled Buffer Tube Core |
| TIA | 598-D | Fiber |

Contact AFL for further details.