

Interconnect Premise MicroCore® Cable

Interconnect Premise MicroCore cables are designed for MTP terminations and meet the interconnect standards of Telcordia® GR-409. To minimize the cable's diameter, multiple colored 250 μm fibers and aramid strands are packaged in a PVC or LSZH jacket. Simplex and Zipcord designs are available in a variety of fiber counts.

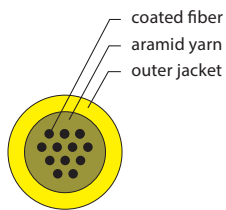
Features

- 8 to 72 fibers
- 2.0 mm or 3.0 mm Outer Diameter for Round Boot 12-fiber MTP Cables
- 3.0 mm or 3.8 mm Outer Diameter for Round Boot 24-fiber MTP Cables
- 4.0 mm Outer Diameter for Round Boot 48-count MTP Cables

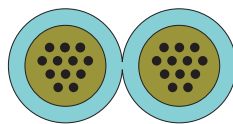
Applications

- Building Interconnections
- Data Centers and Central Offices
- Anywhere MTP connections can be used
- High-density Interconnects
- 40 Gbit and 100 Gbit Ethernet Architecture

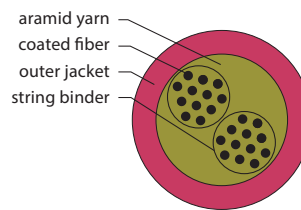
Cable Components



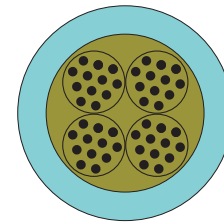
12 Fiber Simplex



24 Fiber Zipcord
(3.0 mm only)



24 Fiber Simplex



48 Fiber Simplex

Fiber Specifications

| CORE SIZE/FIBER TYPE | ISO/IEC | MAXIMUM ATTENUATION (dB/km) | | | OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km) | | EMB _c (MHz•km) | GIGABIT ETHERNET MAX. LINK DISTANCE (meters) | | 10 GIGABIT ETHERNET MAX. LINK DISTANCE (meters) | |
|--|---------|-----------------------------|---------|---------|---|---------|---------------------------|--|---------|---|---------|
| | | 850 nm | 1300 nm | 1550 nm | 850 nm | 1300 nm | | 850 nm | 1300 nm | 850 nm | 1300 nm |
| (6) 62.5 Giga-Link™ 300 | OM1 | 3.5 | 1.2 | N/A | 200 | 600 | N/A | 300 | 550 | 32 | — |
| (5) 50 Giga-Link™ 600 | OM2 | 3.5 | 1.5 | N/A | 500 | 500 | N/A | 600 | 600 | 82 | — |
| (L) 50 Laser-Link 300 | OM3 | 3.0 | 1.2 | N/A | 1,500 | 500 | 2,000 | 1,000 | 550 | 300 | — |
| (C) 50 Laser-Link 550 | OM4 | 3.0 | 1.2 | N/A | 3,500 | 500 | 4,700 | 1,040 | 550 | 550 | — |
| (W) AFL Wideband Multimode | OM5 | 3.0 | 1.2 | N/A | 3,500 | 500 | 4,700 | 1,040 | 550 | 550 | — |
| (9) Single-mode (ITU G.652.D/G.657.A1) | OS2 | N/A | 0.5 | 0.5 | N/A | N/A | N/A | N/A | 5,000 | N/A | 10,000 |

*Other fiber types available (All ITU G.657 grade SMF available)

continued
→

Interconnect Premise MicroCore® Cable

Mechanical Data

| CABLE TYPE | PLENUM | LSZH | FIBER COUNT | NOMINAL DIAMETER | WEIGHT | TENSION lbs (N) | | BENDING RADIUS inches (cm) | |
|-------------------|--------------|--------------|-------------|------------------|---------------------|-----------------|-----------|----------------------------|-----------|
| | AFL NO. | | | inches (mm) | lbs/1000 ft (kg/km) | INSTALLATION | LONG TERM | INSTALLATION | LONG TERM |
| | SP/ZP | SE/ZE | | | | | | | |
| SINGLE SMALL FORM | SP008◆201#0B | SE008◆201#0B | 8 | 0.08 (2.0) | 2.6 (4.0) | 22 (98) | 7 (30) | 1.2 (3.0) | 0.8 (2.0) |
| | SP012◆201#0B | SE012◆201#0B | 12 | 0.08 (2.0) | 2.6 (4.0) | 22 (98) | 7 (30) | 1.2 (3.0) | 0.8 (2.0) |
| | SP016◆301#0B | SE016◆301#0B | 16 | 0.12 (3.0) | 5.3 (7.9) | 22 (98) | 7 (30) | 1.8 (4.5) | 1.2 (3.0) |
| | SP024◆301#0B | SE024◆301#0B | 24 | 0.12 (3.0) | 5.3 (7.9) | 22 (98) | 7 (30) | 1.8 (4.5) | 1.2 (3.0) |
| | SP032◆381#0B | SE032◆381#0B | 32 | 0.15 (3.8) | 9.4 (14.0) | 22 (98) | 7 (30) | 2.2 (5.7) | 1.5 (3.8) |
| | SP048◆381#0B | SE048◆381#0B | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (98) | 7 (30) | 2.2 (5.7) | 1.5 (3.8) |
| SIMPLEX | SP008◆301#0B | SE008◆301#0B | 8 | 0.12 (3.0) | 5.3 (7.9) | 50 (220) | 17 (75) | 1.8 (4.5) | 1.2 (3.0) |
| | SP012◆301#0B | SE012◆301#0B | 12 | 0.12 (3.0) | 5.3 (7.9) | 50 (220) | 17 (75) | 1.8 (4.5) | 1.2 (3.0) |
| | SP024◆381#0B | SE024◆381#0B | 24 | 0.15 (3.8) | 10.1 (15.0) | 75 (330) | 25 (110) | 2.2 (5.7) | 1.5 (3.8) |
| | SP048◆401#0B | SE048◆401#0B | 48 | 0.16 (4.0) | 9.4 (14.0) | 50 (220) | 17 (75) | 2.4 (6.0) | 1.6 (4.0) |
| | SP048◆481#0B | SE048◆481#0B | 48 | 0.19 (4.8) | 14.1 (21.0) | 75 (330) | 25 (110) | 2.8 (7.2) | 1.9 (4.8) |
| | SP064◆451#0B | SE064◆451#0B | 64 | 0.18 (4.5) | 13.4 (20.0) | 50 (220) | 17 (75) | 2.7 (6.8) | 1.8 (4.5) |
| | SP072◆481#0B | SE072◆481#0B | 72 | 0.19 (4.8) | 16.1 (24.0) | 50 (220) | 17 (75) | 2.8 (7.2) | 1.9 (4.8) |
| ZIPCORD | ZP024◆301#0B | ZE024◆301#0B | 24 | 0.12 (3.0) | 12.4 (18.4) | 100 (445) | 33 (147) | 1.8 (4.5) | 1.2 (3.0) |

◆ Fiber Types – Replace diamond (◆) in AFL No. with number in the Fiber Specifications table on previous page.

Outer Jacket Color – Replace hashtag (#) in AFL No. with number in the Cable Jacket Color table below.

16 unique colors available for fibers in 16 fiber subunit: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Olive, Magenta, Tan, Lime.

Cable Jacket Color Options

| | |
|--------------------------|----------------------------|
| 1 - Blue | 8 - Black |
| 2 - Orange (OM1 and OM2) | 9 - Yellow (SM) |
| 3 - Green | A - Violet |
| 4 - Brown | B - Rose |
| 5 - Slate | C - Aqua (OM3 and OM4) |
| 6 - White | K - Erika Violet (OM4) |
| 7 - Red | L - Lime (Pending for OM5) |

Qualifications

| GOVERNING BODY | STANDARD CODE |
|----------------|-------------------------|
| NFPA | 262 |
| IEC | 60332 |
| IEC | 60754 |
| IEC | 61034 |
| Telcordia | GR-409-CORE |
| RoHS | Compliant to 2002/95/EC |

Temperature Specifications

| TEMPERATURE RANGE | |
|-------------------|----------------|
| OPERATION | 0°C to +70°C |
| STORAGE | -40°C to +75°C |
| INSTALLATION | 0°C to +70°C |

Contact AFL for cable designs.