



Enterprise Blown Fiber (eABF®) Cable

eABF cables are designed by AFL to offer the most rugged and reliable enterprise-based blown fiber solution in the market today. The patent pending cable design combines a light-weight, high-drag jacketing system that allows the cable to be blown long distances. The cable series also features additional attributes that set this product above and beyond traditional blown fiber cables. These enhanced features include mechanical strengthening that permits the cable to comply with industry-standard premise interconnect specifications. In addition, the eABF cable series feature flame-resistance characteristics which result in stand-alone riser and plenum rated options suitable for routing outside of the micro-duct system. Because of these mechanical, environmental and optical qualifications, eABF cables can also be installed in third-party, flame-rated duct and pathway systems.

Applications

- Designed for Data Center Interconnect
- Horizontal Distribution
- Backbone Distribution
- Low-cost fiber upgrade migration strategies

Features

- Contains water-blocking components for additional fiber protection from accidental water exposure
- Can be installed in eABF duct or third-party rated duct systems
- Complete range of single-mode and multimode fibers to support 10G, 40G and 100G Ethernet architectures
- Aramid-strengthened cable core for robust tensile load bearing capabilities
- OD compatible with 6 mm ID Micro-ducts for higher density fiber pathway solutions
- 96-Fiber count fits into 8.5 mm x 6 mm Micro-duct for up to 2,304 fibers per 24-way Dura-Line FuturePath Duct

Specifications—eABF Optical Fiber

| FIBER TYPE | ISO DESIGNATION | MAXIMUM ATTENUATION (dB/km) | | | | OVERFILL LAUNCH MIN. BANDWIDTH (MHz-km) | | EMBC (MHz-km) | GIGABIT ETHERNET MAX. LINK DISTANCE (Meters) | | 10 GIGABIT ETHERNET MAX. LINK DISTANCE (Meters) | |
|------------|-----------------------|-----------------------------|---------|---------|---------|---|---------|---------------|--|---------|---|---------|
| | | 850 nm | 1300 nm | 1310 nm | 1550 nm | 850 nm | 1300 nm | | 850 nm | 1300 nm | 850 nm | 1300 nm |
| 62.5/125 | OM1 | 3.5 | 1.2 | N/A | N/A | 200 | 600 | N/A | 300 | 550 | 32 | N/A |
| 50/125 | OM2 BIF | 3.5 | 1.2 | N/A | N/A | 500 | 500 | N/A | 600 | 600 | 82 | N/A |
| 50/125 | OM3 BIF | 3.0 | 1.2 | N/A | N/A | 1500 | 500 | 2000 | 1000 | 550 | 300 | N/A |
| 50/125 | OM4 BIF | 3.0 | 1.2 | N/A | N/A | 3500 | 550 | 4700 | 1040 | 550 | 550 | N/A |
| SM | OS2 (G.652D/G.657.A1) | N/A | N/A | 0.4 | 0.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

BIF = Bend Insensitive Fiber

Estimated Installation Distances

| OD/ID | DISTANCE (FT) |
|--|---------------|
| V-20 Install Distance—eABF 3.6 mm (6-24 Fibers) | |
| 8.5 x 6 | 3,000 |
| V-20 Install Distance—eABF 3.8 mm (48 Fibers) | |
| 8.5 x 6 | 2,500 |
| V-20 Install Distance—eABF 4.5 mm (72-96 Fibers) | |
| 8.5 x 6 | 1,500 |

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Enterprise Blown Fiber (eABF) Cable (cont.)

Mechanical Data—Riser (OFNR)

| DURA-LINE NO. | DESCRIPTION | PRODUCT TYPE | FIBER COUNT | NOMINAL DIAMETER | WEIGHT LBS/1,000 FT (KG/KM) | MAXIMUM TENSILE LOAD | | MINIMUM BEND RADIUS | |
|---------------------|--------------------------------|----------------|-------------|------------------|-----------------------------------|-----------------------|----------------------|---------------------------|--------------------------|
| | | | | INCHES (MM) | | SHORT TERM LBS (N) | LONG TERM LBS (N) | SHORT TERM INCHES (MM) | LONG TERM INCHES (MM) |
| 20002960 | MicroCable Riser ENT-A SM-6 | SMF | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002866 | MicroCable Riser ENT-A SM-12 | SMF | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20000729 | MicroCable Riser ENT-A SM-24 | SMF | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20000730 | MicroCable Riser ENT-A SM-48 | SMF | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003201 | MicroCable Riser ENT-A SM-72 | SMF | 72 | 0.18 (4.5) | 14.0 (20.8) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| NEW 20003628 | MicroCable Riser SMF-72 200 µm | SMF 200 µm | 72 | 0.15 (3.8) | 11.0 (16.4) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003630 | MicroCable Riser ENT-A SM-96 | SMF 200 µm | 96 | 0.18 (4.5) | 16.0 (23.8) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| 20002961 | MicroCable Riser ENT-A OM1-6 | OM1 (62.5/125) | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002848 | MicroCable Riser ENT-A OM1-12 | OM1 (62.5/125) | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002962 | MicroCable Riser ENT-A OM1-24 | OM1 (62.5/125) | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002963 | MicroCable Riser ENT-A OM1-48 | OM1 (62.5/125) | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003333 | MicroCable Riser ENT-A OM1-72 | OM1 (62.5/125) | 72 | 0.18 (4.5) | 14.0 (20.8) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| 20002964 | MicroCable Riser ENT-A OM2-6 | OM2 (50/125) | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002965 | MicroCable Riser ENT-A OM2-12 | OM2 (50/125) | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002966 | MicroCable Riser ENT-A OM2-24 | OM2 (50/125) | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002967 | MicroCable Riser ENT-A OM2-48 | OM2 (50/125) | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003334 | MicroCable Riser ENT-A OM2-72 | OM2 (50/125) | 72 | 0.18 (4.5) | 14.0 (20.8) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| 20002968 | MicroCable Riser ENT-A OM3-6 | OM3 (50/125) | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002969 | MicroCable Riser ENT-A OM3-12 | OM3 (50/125) | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20000695 | MicroCable Riser ENT-A OM3-24 | OM3 (50/125) | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002883 | MicroCable Riser ENT-A OM3-48 | OM3 (50/125) | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003335 | MicroCable Riser ENT-A OM3-72 | OM3 (50/125) | 72 | 0.18 (4.5) | 14.0 (20.8) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| 20002970 | MicroCable Riser ENT-A OM4-6 | OM4 (50/125) | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002971 | MicroCable Riser ENT-A OM4-12 | OM4 (50/125) | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002972 | MicroCable Riser ENT-A OM4-24 | OM4 (50/125) | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20000696 | MicroCable Riser ENT-A OM4-48 | OM4 (50/125) | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003272 | MicroCable Riser ENT-A OM4-72 | OM4 (50/125) | 72 | 0.18 (4.5) | 14.0 (20.8) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |

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Enterprise Blown Fiber (eABF) Cable (cont.)

Mechanical Data—Plenum (OFNP)

| DURA-LINE NO. | DESCRIPTION | PRODUCT TYPE | FIBER COUNT | NOMINAL DIAMETER | WEIGHT | MAXIMUM TENSILE LOAD | | MINIMUM BEND RADIUS | |
|---------------------|---------------------------------|----------------|-------------|------------------|-------------|----------------------|--------------------|---------------------|------------------------|
| | | | | INCHES (MM) | | LBS/1,000 FT (KG/KM) | SHORT TERM LBS (N) | LONG TERM LBS (N) | SHORT TERM INCHES (MM) |
| 20002973 | MicroCable Plenum ENT-A SM-6 | SMF | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002974 | MicroCable Plenum ENT-A SM-12 | SMF | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002975 | MicroCable Plenum ENT-A SM-24 | SMF | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20001451 | MicroCable Plenum ENT-A SM-48 | SMF | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003337 | MicroCable Plenum ENT-A SM-72 | SMF | 72 | 0.18 (4.5) | 15.0 (22.3) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| NEW 20003629 | MicroCable Plenum SMF-72 200 µm | SMF 200 µm | 72 | 0.15 (3.8) | 11.0 (16.4) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003631 | MicroCable Plenum ENT-A SM-96 | SMF 200 µm | 96 | 0.18 (4.5) | 16.0 (23.8) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| 20002976 | MicroCable Plenum ENT-A M1-6 | OM1 (62.5/125) | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002977 | MicroCable Plenum ENT-A OM1-12 | OM1 (62.5/125) | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002978 | MicroCable Plenum ENT-A OM1-24 | OM1 (62.5/125) | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002979 | MicroCable Plenum ENT-A OM1-48 | OM1 (62.5/125) | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003338 | MicroCable Plenum ENT-A OM1-72 | OM1 (62.5/125) | 72 | 0.18 (4.5) | 15.0 (22.3) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| 20002980 | MicroCable Plenum ENT-A OM2-6 | OM2 (50/125) | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002981 | MicroCable Plenum ENT-A OM2-12 | OM2 (50/125) | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002982 | MicroCable Plenum ENT-A OM2-24 | OM2 (50/125) | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002983 | MicroCable Plenum ENT-A OM2-48 | OM2 (50/125) | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003339 | MicroCable Plenum ENT-A OM2-72 | OM2 (50/125) | 72 | 0.18 (4.5) | 15.0 (22.3) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| 20002984 | MicroCable Plenum ENT-A OM3-6 | OM3 (50/125) | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002985 | MicroCable Plenum ENT-A OM3-12 | OM3 (50/125) | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002986 | MicroCable Plenum ENT-A OM3-24 | OM3 (50/125) | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002987 | MicroCable Plenum ENT-A OM3-48 | OM3 (50/125) | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003340 | MicroCable Plenum ENT-A OM3-72 | OM3 (50/125) | 72 | 0.18 (4.5) | 15.0 (22.3) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |
| 20002988 | MicroCable Plenum ENT-A OM4-6 | OM4 (50/125) | 6 | 0.14 (3.6) | 6.4 (9.5) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002989 | MicroCable Plenum ENT-A OM4-12 | OM4 (50/125) | 12 | 0.14 (3.6) | 6.7 (10.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002990 | MicroCable Plenum ENT-A OM4-24 | OM4 (50/125) | 24 | 0.14 (3.6) | 7.4 (11.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20002919 | MicroCable Plenum ENT-A OM4-48 | OM4 (50/125) | 48 | 0.15 (3.8) | 9.4 (14.0) | 22 (100) | 7 (30) | 1.2 (30) | 0.8 (20) |
| 20003341 | MicroCable Plenum ENT-A OM4-72 | OM4 (50/125) | 72 | 0.18 (4.5) | 15.0 (22.3) | 22 (100) | 7 (30) | 3.6 (90) | 1.8 (45) |

Qualifications

| GOVERNING BODY | STANDARD CODE | COMPONENT |
|----------------|---------------------|-------------------|
| Telcordia | GR-409-CORE | Fiber Optic Cable |
| RoHS | 2015/863 | Fiber Optic Cable |
| UL | 1666 (OFNR) | Riser Cables |
| NEC | 2005 Art 770.51 (B) | Riser Cables |
| NFPA | 262 OFNP | Plenum Cables |

Temperature Specifications

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

*Not intended for outside plant access during operational use.

Contact AFL for packaging details or any further questions.