

Cleerline SSF 2-12 strand fiber Micro Distribution cable is composed of loose tube style SSF fibers with an overall 3.0 mm Riser, Plenum I/O, or CPR-rated LSZH jacket.

SSF Micro Distribution is ideal for inter-building or intra-building data communication backbones.

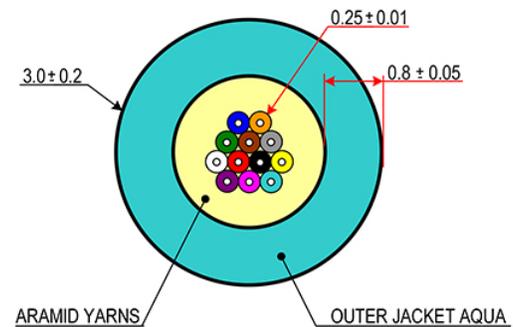
Cleerline SSF Micro Distribution multimode is fully compatible with all common connector systems for standard 50/125 multimode fiber. The included SSF™ fibers provide extreme durability and strength, with up to 10,000 times the bend insensitivity of traditional fiber.



3D VIEW

### FEATURES AND BENEFITS

- High mechanical strength, superior fatigue (Nd = 30)
- Compatible with common connector systems for 50/125 Multimode
- Up to 10,000x the bend longevity of traditional fiber
- Integral SSF coating provides glass protection
- Increased safety due to incredible bend insensitivity
- Exclusive 250 µm Soft Peel acrylate



TYPICAL CROSS SECTION

### APPLICATIONS

- Inter-/Intra-building voice or data communication
- Installation in ducts or underground conduit
- Fiber-to-the-desk (FTTD) / Fiber-to-the-Home (FTTH)
- ETL Listed type OFNP for installation in ducts, plenums and other spaces used as environmental air returns when installed in accordance with NEC article 770-51 (a) and 770-53(a)

| PART NUMBER        | FIBERS    | DESCRIPTION   | JACKET RATING       | O.D.   | WEIGHT (LB / 1000 FT) |
|--------------------|-----------|---|---------------------|--------|-----------------------|
| 2D50125MOM3X       | 2 Fibers  | 2 Strand 50/125 SSF - 1000 ft Spool                 | X= R/P/L            | 3.0 mm | 6.9                   |
| 2D50125MOM3X-B     | 2 Fibers  | 2 Strand 50/125 SSF - Cut to Order                  | X= R/P/L            | 3.0 mm | 6.9                   |
| 4D50125MOM3X       | 4 Fibers  | 4 Strand 50/125 SSF - 1000 ft Spool                 | X= R/P/L            | 3.0 mm | 6.9                   |
| 4D50125MOM3X-B     | 4 Fibers  | 4 Strand 50/125 SSF - Cut to Order                  | X= R/P/L            | 3.0 mm | 6.9                   |
| 6D50125MOM3X       | 6 Fibers  | 6 Strand 50/125 SSF - 1000 ft Spool                 | X= R/P/L            | 3.0 mm | 6.9                   |
| 6D50125MOM3X-B     | 6 Fibers  | 6 Strand 50/125 SSF - Cut to Order                  | X= R/P/L            | 3.0 mm | 6.9                   |
| 6D50125MOM3P-BK    | 6 Fibers  | 6 Strand 50/125 SSF - Black Jacket - 1000 ft spool  | Plenum I/O in black | 3.0 mm | 6.9                   |
| 6D50125MOM3P-BK-B  | 6 Fibers  | 6 Strand 50/125 SSF - Black Jacket - Cut to Order   | Plenum I/O in black | 3.0 mm | 6.9                   |
| 12D50125MOM3X      | 12 Fibers | 12 Strand 50/125 SSF - 1000 ft Spool                | X= R/P/L            | 3.0 mm | 6.9                   |
| 12D50125MOM3X-B    | 12 Fibers | 12 Strand 50/125 SSF - Cut to Order                 | X= R/P/L            | 3.0 mm | 6.9                   |
| 12D50125MOM3P-BK   | 12 Fibers | 12 Strand 50/125 SSF - Black Jacket - 1000 ft spool | Plenum I/O in black | 3.0 mm | 6.9                   |
| 12D50125MOM3P-BK-B | 12 Fibers | 12 Strand 50/125 SSF - Black Jacket - Cut to Order  | Plenum I/O in black | 3.0 mm | 6.9                   |

**CONSTRUCTION**

| FIBER        |                                   |
|--------------|-----------------------------------|
| Fibers       | 2-12                              |
| Type         | 50/125 Multimode OM3              |
| Coating      | 250 µm "Soft Peel" S-Type Coating |
| Color Coding | Per TIA/EIA 598C                  |

| JACKET          |  |
|-----------------|--|
| Type            | Riser Rated PVC (Indoor)<br>Plenum Rated PVC + UV I/O / CPR LSZH I/O |
| Color           | Aqua / Black (6 and 12 strand plenum only)                           |
| Outer Diameter  | 3.0 mm   |
| Markings        | Sequential Foot Markings   |
| Strength Member | Aramid (Plenum + water blocking yarns)                               |

| PHYSICAL DATA                           |   |
|---|---|
| Storage Temperature Range               | -40°C to +80°C                              |
| Operating Temperature Range             | -20°C to +75°C                              |
| Max Tensile Load (Installation)         | 225 lbf / 102 kgf (1000N)                   |
| Max Tensile Load Long Term              | 112 lbf / 50 kgf (500N)                     |
| Min. Bend Radius, Unloaded              | 1 x O.D.                                    |
| Min. Bend Radius, Operation             | 3.0 mm                                      |
| Cable Outside Diameter, Nominal         | 3.0 mm                                      |
| Cable Package                           | 1000 ft Reel or customer request, spooled   |
| Rating                                  | Riser (OFNR) FT4 / Plenum (OFNP) FT6 / LSZH |
| Crush Resistance (TIA/EIA 455-41A)      | 100 kgf / mm or 200 lbf / mm                |
| Impact Resistance (TIA/EIA 455-25B)     | 1500 impact cycles                          |
| Flexing @ 90 degrees (TIA/EIA 455-104A) | 2000 flexing cycles                         |

| ENVIRONMENTAL CHARACTERISTICS   |               |
|---|---------------|
| Temperature Dependence, 850 nm and 1300 nm Induced Attenuation -60°C to + 85°C          | ≤ 0.5 dB / km |
| Watersoak Dependence, 850 nm and 1300 nm Induced Attenuation at 20°C for 30 days        | ≤ 0.5 dB / km |
| Damp Heat Dependence, 850 nm and 1300 nm Induced Attenuation at 85°C, 85% R.H., 30 days | ≤ 0.5 dB / km |
| Dry Heat Dependence, 850 nm and 1300 nm Induced Attenuation at 85°C, 30 days            | ≤ 0.5 dB / km |

| PHYSICAL CHARACTERISTICS (SSF™ FIBER)            |               |
|--|---------------|
| Core Diameter                                    | 50.0 ± 2.5 µm |
| Core Non-circularity                             | ≤ 6%          |
| Core / Hybrid Cladding Concentricity Error       | ≤ 3.0 µm      |
| Hybrid Cladding Diameter                         | 125 ± 2 µm    |
| Hybrid Cladding Non-Circularity                  | ≤ 2.0%        |
| Soft Peel Jacket Identifier                      | 245 ± 10 µm   |
| Coating Strip Force                              | 100 g         |
| Fiber Curl                                       | ≥ 2 m         |
| Proof Test                                       | 100 kpsi      |
| Dynamic Fatigue (n <sub>d</sub> ) 23°C, 41% R.H. | = 30          |
| Length   | 1.0 - 8.8 Km  |

| OPTICAL CHARACTERISTICS (SSF FIBER) |                                      |                 |
|-------------------------------------|--------------------------------------|-----------------|
| Attenuation Coefficient             | 850 nm                               | ≤ 3.5 dB/km     |
|                                     | 1300 nm                              | ≤ 1 dB/km       |
| Bend Induced Attenuation, 850 nm    | 2 turns around 15 mm radius mandrel  | ≤ 0.2 dB        |
|                                     | 2 turns around 7.5 mm radius mandrel | ≤ 0.5 dB        |
| Numerical Aperture                  |                                      | 0.200 ± 0.015   |
| Overfilled Modal Bandwidth          | 850 nm                               | ≥ 1500 MHz · km |
|                                     | 1300 nm                              | ≥ 500 MHz · km  |
| High Performance EMB                | 850 nm                               | ≥ 2000 MHz · km |

| BACKSCATTER CHARACTERISTICS        |              |       |
|------------------------------------|--------------|-------|
| Attenuation Directional Uniformity | ≤ 0.05 dB/km |       |
| Attenuation Uniformity             | ≤ 0.05 dB    |       |
| Group Index of Refraction          | 850 nm       | 1.481 |
|                                    | 1300 nm      | 1.476 |

| COMPLIANCE  |   |
|---|---|
| ETL Listed Type OFNR, CSA FT4, IECA S-83-596 & OFNP, CSA FT6 / IECA S-104-696.<br>2- 12 Strand LSZH Listed CPR Cca-s1a,d1,a1.<br>DoP Available on Request.<br>RoHS Compliant Directive 2011/65/EU<br>SSF conforms to the requirement of IEC 60793-2-10 A1a, ISO/IEC 11801 & ITU-T G.651.1 850 nm Laser-Optimized 50 µm core Multimode fiber for 10 Gb/s and above applications. |  |