Cleerline SSF™ 2-12 strand fiber Micro Distribution cable is composed of distribution style SSF™ cable with an overall 3.0 mm Riser, Plenum, 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™ fiber provides extreme durability and strength. Flex tested to 2000 cycles, impact to 1500 cycles, and crush to 100 kgf/mm.

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

APPLICATIONS

- Inter-/Intra-building voice or data communication
- Installation in ducts or underground conduit
- Fiber-to-the-desk (FTTD) / Fiber-to-the-Home (FTTH)
- UL 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)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>FIBERS</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>O.D.</th>
<th>WEIGHT (LB / 1000 FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2D50125MOM3X</td>
<td>2 Fibers</td>
<td>2 Strand 50/125 SSF - 1000 ft Spool</td>
<td>X=R/P/L</td>
<td>3.0 mm</td>
<td>6.9</td>
</tr>
<tr>
<td>2D50125MOM3X-B</td>
<td>2 Fibers</td>
<td>2 Strand 50/125 SSF - Cut to Order</td>
<td>X=R/P/L</td>
<td>3.0 mm</td>
<td>6.9</td>
</tr>
<tr>
<td>4D50125MOM3X</td>
<td>4 Fibers</td>
<td>4 Strand 50/125 SSF - 1000 ft Spool</td>
<td>X=R/P/L</td>
<td>3.0 mm</td>
<td>6.9</td>
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<td>4D50125MOM3X-B</td>
<td>4 Fibers</td>
<td>4 Strand 50/125 SSF - Cut to Order</td>
<td>X=R/P/L</td>
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<tr>
<td>6D50125MOM3X</td>
<td>6 Fibers</td>
<td>6 Strand 50/125 SSF - 1000 ft Spool</td>
<td>X=R/P/L</td>
<td>3.0 mm</td>
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</tr>
<tr>
<td>6D50125MOM3P-BK</td>
<td>6 Fibers</td>
<td>6 Strand 50/125 SSF, Black Jacket - 1000 ft Spool</td>
<td>Plenum, black color</td>
<td>3.0 mm</td>
<td>6.9</td>
</tr>
<tr>
<td>6D50125MOM3P-BK-B</td>
<td>6 Fibers</td>
<td>6 Strand 50/125 SSF, Black Jacket - Cut to Order</td>
<td>Plenum, black color</td>
<td>3.0 mm</td>
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</tr>
<tr>
<td>12D50125MOM3X</td>
<td>12 Fibers</td>
<td>12 Strand 50/125 SSF - 1000 ft Spool</td>
<td>X=R/P/L</td>
<td>3.0 mm</td>
<td>6.9</td>
</tr>
<tr>
<td>12D50125MOM3X-B</td>
<td>12 Fibers</td>
<td>12 Strand 50/125 SSF - Cut to Order</td>
<td>X=R/P/L</td>
<td>3.0 mm</td>
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<td>12D50125MOM3P-BK</td>
<td>12 Fibers</td>
<td>12 Strand 50/125 SSF, Black Jacket - 1000 ft Spool</td>
<td>Plenum, black color</td>
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<td>12 Fibers</td>
<td>12 Strand 50/125 SSF, Black Jacket - Cut to Order</td>
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<td>3.0 mm</td>
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</tr>
</tbody>
</table>
### 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)
  - 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**: Kevlar (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)**: 1000 N (225 lbf)
- **Max Tensile Load Long Term**: 500 N (112 lbf)
- **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**: FT4 - Riser / FT6-Plenum / CPR LSZH
- **Crush Resistance (TIA/EIA 455-41A)**: 100 kgf / 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**: ≤ 0.5 dB / km
- **Induced Attenuation**: -60°C to + 85°C
- **Watersoak Dependence, 850 nm and 1300 nm**: ≤ 0.5 dB / km
- **Induced Attenuation at 20°C for 30 days**: 850 nm and 1300 nm ≤ 0.5 dB / km
- **Damp Heat Dependence, 850 nm and 1300 nm**: ≤ 0.5 dB / km
- **Induced Attenuation at 85°C, 85% R.H., 30 days**: 850 nm and 1300 nm ≤ 0.5 dB / km
- **Dry Heat Dependence, 850 nm and 1300 nm**: ≤ 0.5 dB / km
- **Induced Attenuation at 85°C, 30 days**

#### PHYSICAL CHARACTERISTICS
- **Core Diameter**: 50.0 ± 2.5 µm
- **Core Non-circularity**: ≤ 6%
- **Core / Hybrid Cladding Concentricity Error**: ≤ 3.0 µm
- **Hybrid Cladding Diameter**: 125 ± 0.7 µm
- **Hybrid Cladding Non-Circularity Error**: ≤ 3.0%
- **Soft Peel Jacket Identifier**: 250 ± 0.7 µm
- **Coating Strip Force**: 100 g
- **Fiber Curl**: ≥ 2 m
- **Proof Test**: 100 kpsi
- **Dynamic Fatigue 23°C, 41% R.H.**: > 30 nD
- **Bend Induced Attenuation, 1300 nm**: 100 turns around 75 mm diameter mandrel ≤ 1.0 dB
- **Length**: 1.0 - 8.8 Km

#### OPTICAL CHARACTERISTICS
- **Attenuation Coefficient**: 850 nm ≤ 3.0 dB/km
  - 1300 nm ≤ 1.0 dB/km
- **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/km
- **Group Index of Refraction**: 850 nm 1.481
  - 1300 nm 1.476

#### COMPLIANCE
- **UL Listed Type OFNR, CSA FT4, IECA S-83-596 & OFNP, CSA FT6 / IECA S-104-696.**
- **2-12 Strand LSZH Listed CPR Cca-s1a,d1,a1.**
- **DoP Available on Request.**
- **RoHS Compliant Directive 2011/65/EU**
- **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.**