Cleerline SSF™ 24 strand Single Tube fiber optic cable is composed of 24 fibers within a distribution style cable with an overall plenum jacket.

SSF™ Single Tube cable is ideal for inter-building or intra-building data communication backbones in high density settings as well as MPO assemblies.

Cleerline SSF™ Single Tube Multimode is fully compatible with all common connector systems for standard 50/125 multimode fiber. The included SSF™ fiber provides extreme durability and strength.

**FEATURES AND BENEFITS**

- High mechanical strength, superior fatigue (nd = 30)
- 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
- Convenient single tube construction for high-density applications

**APPLICATIONS**

- Inter-/Intra-building voice or data communication
- MPO assemblies and high-density applications
- 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)

**PART NUMBER**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>FIBERS</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>O.D.</th>
<th>WEIGHT (KG / KM)</th>
<th>MIN. BEND RADIUS, INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>24STD50125MOM3P</td>
<td>24 Fibers</td>
<td>24 Strand - 1000 ft Spool</td>
<td>Plenum</td>
<td>3.1 mm</td>
<td>8.4</td>
<td>3.1 cm</td>
</tr>
<tr>
<td>24STD50125MOM3P-B</td>
<td>24 Fibers</td>
<td>24 Strand - Cut to Order</td>
<td>Plenum</td>
<td>3.1 mm</td>
<td>8.4</td>
<td>3.1 cm</td>
</tr>
</tbody>
</table>
### Construction

#### Fiber
- **Fibers:** 24
- **Type:** 50/125 Multimode OM3
- **Coating:** 250 µm “Soft Peel” S-Type Coating
- **Color Coding:** Per TIA/EIA 598C

#### Jacket
- **Type:** Plenum Rated PVC + UV I/O
- **Color:** Aqua
- **Outer Diameter:** 3.1 mm
- **Markings:** Sequential Foot Markings
- **Strength Member:** Kevlar (Plenum + water blocking yarns)

#### Physical Data
- **Storage Temperature Range:** -20°C to +60°C
- **Operating Temperature Range:** -20°C to +60°C
- **Max Tensile Load (Installation):** 800 N (189 lbf)
- **Max Tensile Load Long Term:** 500 N (112 lbf)
- **Min. Bend Radius, Unloaded:** 10 x O.D.
- **Cable Outside Diameter, Nominal:** 3.1 mm
- **Cable Package:** 1000 ft Reel or customer request, spooled
- **Rating:** FT6-Plenum
- **Crush Resistance (TIA/EIA 455-41A):** 3.5 N/mm, 10 mins; < 0.2 dB
- **Impact Resistance (TIA/EIA 455-25B):** 3 Impacts, 1 N • M; < 0.2 dB
- **Cyclic Flexing (TIA/EIA 455-104A):** 25 Times, < 0.2 dB
- **Tensile Loading and Bending (TIA/EIA 455-33A):** 100 N load, 10 mins; < 0.2 dB

#### Environmental Characteristics - Fiber
- **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:** ≤ 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:** ≤ 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, 850 nm:** 2 bending turns around 15 mm diameter mandrel ≤ 1.0 dB
- **Bend Induced Attenuation, 1300 nm:** 2 bending turns around 15 mm diameter mandrel ≤ 1.0 dB
- **Length:** 1.0 - 8.8 km
- **Max Attenuation, 850 nm:** < 4.0 dB / km
- **Max Attenuation, 1300 nm:** < 1.5 dB / 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 OFNP, CSA FT6 / IECA S-104-696.
- 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
- Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications.