

50/125 SSF™ Multimode OM3 24 Strand Cable Single Tube Plenum I/O

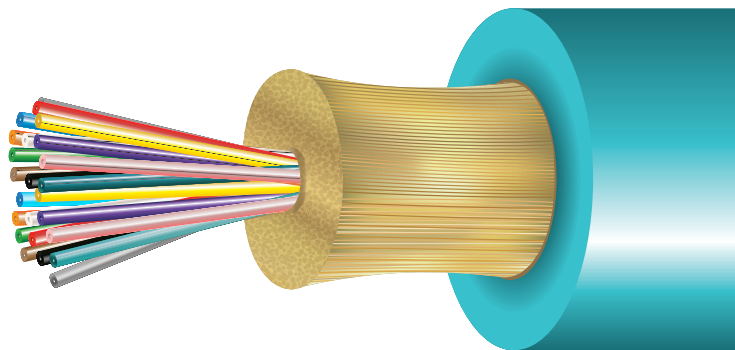
Type: OM3, OFNP, CSA FT6



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.



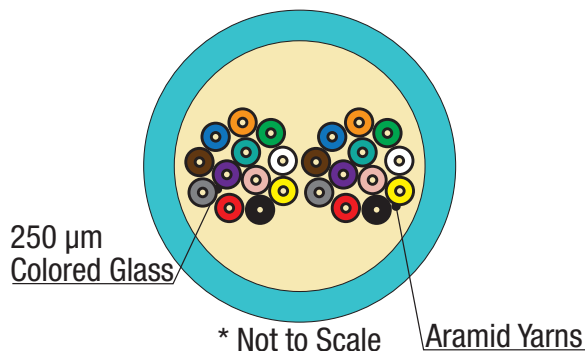
3D VIEW

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)



TYPICAL CROSS SECTION

| PART NUMBER | FIBERS | DESCRIPTION | TYPE | O.D. | WEIGHT (KG / KM) | MIN. BEND RADIUS, INSTALLATION |
|-------------------|-----------|---------------------------|--------|--------|------------------|--------------------------------|
| 24STD50125MOM3P | 24 Fibers | 24 Strand - 1000 ft Spool | Plenum | 3.1 mm | 8.4 | 3.1 cm |
| 24STD50125MOM3P-B | 24 Fibers | 24 Strand - Cut to Order | Plenum | 3.1 mm | 8.4 | 3.1 cm |

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 | |
| Damp Heat Dependence, 850 nm and 1300 nm | ≤ 0.5 dB / km |
| Induced Attenuation at 85°C, 85% R.H., 30 days | |
| 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 | |
| | ≤ 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.651.1 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications. |   |