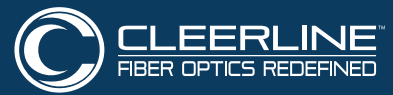


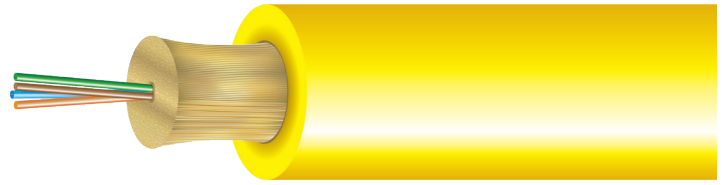
2-12 Strand SSF™ Micro-Distribution LT, Riser, Plenum I/O, LSZH 9/125, G657 A2/B2 OS2



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.

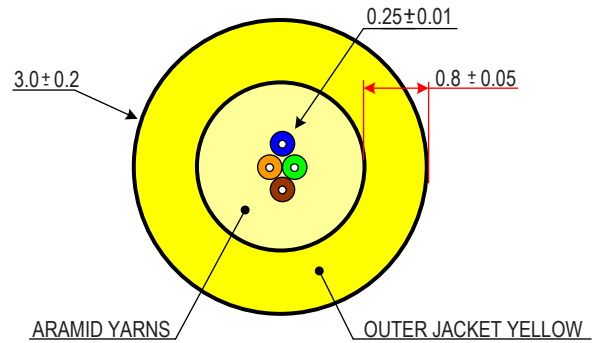
Cleerline SSF Micro Distribution single-mode is fully compatible with all common connector systems for standard 9/125 single-mode fiber. The included SSF™ fibers provide extreme durability and strength, with up to 10,000 times the bend insensitivity of traditional fiber.



3D VIEW

FEATURES AND BENEFITS

- High mechanical strength, superior fatigue (Nd = 30)
- Compatible with common connector systems for 9/125 Single-mode
- 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) |
|------------------|-----------|-------------------------------------|---------------|--------|-----------------------|
| 2D9125SMOS2X | 2 Fibers | 2 Strand 9/125 SSF - 1000 ft Spool | X= R/P/L | 3.0 mm | 6.9 |
| 2D9125SMOS2X-B | 2 Fibers | 2 Strand 9/125 SSF - Cut to Order | X= R/P/L | 3.0 mm | 6.9 |
| 4D9125SMOS2X | 4 Fibers | 4 Strand 9/125 SSF - 1000 ft Spool | X= R/P/L | 3.0 mm | 6.9 |
| 4D9125SMOS2X-B | 4 Fibers | 4 Strand 9/125 SSF - Cut to Order | X= R/P/L | 3.0 mm | 6.9 |
| 6D9125SMOS2X | 6 Fibers | 6 Strand 9/125 SSF - 1000 ft Spool | X= R/P/L | 3.0 mm | 6.9 |
| 6D9125SMOS2X-B | 6 Fibers | 6 Strand 9/125 SSF - Cut to Order | X= R/P/L | 3.0 mm | 6.9 |
| 6D9125SMOS2P-B2K | 6 Fibers | 6 Strand 9/125 SSF - 2000 ft Spool | Plenum I/O | 3.0 mm | 6.9 |
| 12D9125SMOS2X | 12 Fibers | 12 Strand 9/125 SSF - 1000 ft Spool | X= R/P/L | 3.0 mm | 6.9 |
| 12D9125SMOS2X-B | 12 Fibers | 12 Strand 9/125 SSF - Cut to Order | X= R/P/L | 3.0 mm | 6.9 |

CONSTRUCTION

| FIBER | |
|--------------|-----------------------------------|
| Fibers | 2-12 |
| Type | 9/125 Single-mode OS2 |
| 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 | Yellow |
| 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, 1310 nm and 1550 nm Induced Attenuation -60°C to + 85°C | ≤ 0.5 dB / km |
| Watersoak Dependence, 1310 nm and 1550 nm Induced Attenuation at 20°C for 30 days | ≤ 0.5 dB / km |
| Damp Heat Dependence, 1310 nm and 1550 nm Induced Attenuation at 85°C, 85% R.H., 30 days | ≤ 0.5 dB / km |

| PHYSICAL CHARACTERISTICS (SSF FIBER) | |
|--|---------------------|
| Core / Hybrid Cladding Concentricity Error | ≤ 0.5 μm |
| Hybrid Cladding Diameter | 125 ± 0.7 μm |
| Hybrid Cladding Non-Circularity | ≤ 1.0% |
| Soft Peel Jacket Identifier | 245 ± 10 μm |
| Coating Strip Force | ≤ 100 g |
| Fiber Curl | ≥ 2 m |
| Proof Test | 0.69 Gpa (100 kpsi) |
| Dynamic Fatigue (n _g) 23°C, 41% R.H. | = 30 |

| OPTICAL CHARACTERISTICS (SSF FIBER) | | |
|-------------------------------------|---------------------------------------|--|
| Attenuation Coefficient | 1310 nm | ≤ 0.35 dB/km |
| | 1550 nm | ≤ 0.21 dB/km |
| Bend Induced Attenuation, 1550 nm | 1 turn around a 7.5 mm radius mandrel | Typical = 0.15dB ITUT-T G657 ≤ 0.5 dB |
| | 1 turn around a 7.5 mm radius mandrel | Typical = 0.35 ITUT-T G657 ≤ 1.0 dB |
| Mode Field Diameter | 1310 nm | 8.6 ± 0.4 μm |
| | 1550 nm | 9.7 ± 0.5 μm |
| Cable Cut-off Wavelength | ≤ 1260 nm | |
| Zero Dispersion Wavelength | 1300 nm - 1324 nm | |
| Zero Dispersion Slope | 0.092 ps / (nm ² · km) | |

| BACKSCATTER CHARACTERISTICS | | |
|------------------------------------|--------------|-------|
| Attenuation Directional Uniformity | ≤ 0.03 dB/km | |
| Attenuation Uniformity | ≤ 0.05 dB | |
| Group Index of Refraction | 1310 nm | 1.467 |
| | 1550 nm | 1.468 |

| COMPLIANCE | |
|---|--|
| ETL 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 | |