

9/125 SSF™ Single Mode OS2 3.0 mm Jacketed Simplex Riser / Plenum I/O / LSZH Cable

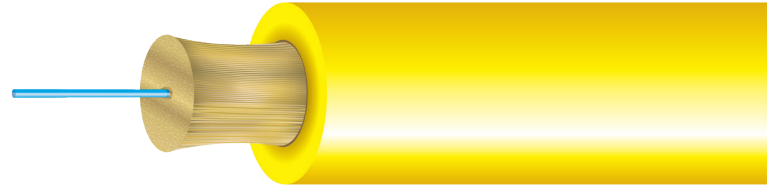
Type: OS2, OFNR, OFNP, LSZH Product Type G.657.A2, G657.B2, G652.D



Cleerline SSF™ Simplex cable is composed of a single SSF™ fiber with an overall 3.0 mm Riser, Plenum, or LSZH jacket.

SSF™ Simplex is ideal for inter-building or intra-building data communication backbones.

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



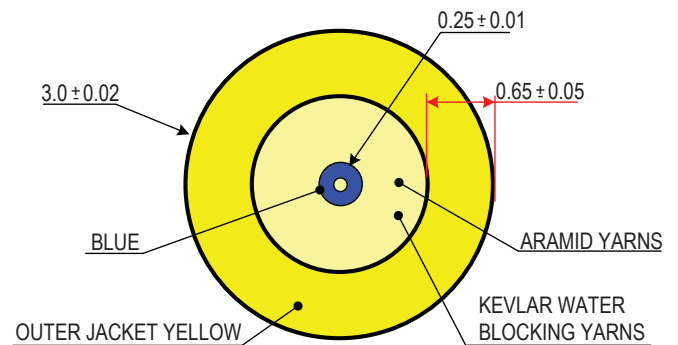
3D VIEW

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

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)



TYPICAL CROSS SECTION

| PART NUMBER | FIBERS | DESCRIPTION | TYPE RISER/PLENUM/LSZH | O.D. | WEIGHT (LB / 1000 FT) |
|---------------|---------|-----------------------------------|---------------------------|--------|--------------------------|
| S19125SMOSX | 1 Fiber | Simplex 9/125 SSF - 1000 ft Spool | X= R/P/L | 3.0 mm | 6.61 |
| S19125SMOSX-B | 1 Fiber | Simplex 9/125 SSF - Cut to Order | X= R/P/L | 3.0 mm | 6.61 |

CONSTRUCTION

| FIBER | |
|--------------|-----------------------------------|
| Fibers | 1 |
| Type | 9/125 Single Mode OS2 |
| Coating | 250 µm "Soft Peel" S-Type Coating |
| Color Coding | Per TIA/EIA 568C |

| JACKET | |
|-----------------|---|
| Type | Riser Rated PVC (Indoor) Plenum Rated PVC + UV I/O / LSZH (Indoor/Outdoor) |
| Color | Yellow |
| Outer Diameter | 3.0 mm |
| Markings | Sequential Foot Markings |
| Strength Member | Kevlar (Plenum + water blocking yarns) |

PHYSICAL DATA

| | |
|---|---|
| Storage Temperature Range | -40°C to +85°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. |
| Cable Outside Diameter, Nominal | 3.0 mm |
| Cable Package | 1000 ft Reel or customer request, spooled |
| Rating | FT4 - Riser / FT6-Plenum / 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, 1310 nm and 1550 nm | ≤ 0.05 dB / km |
| Induced Attenuation | -60°C to + 85°C |
| Watersoak Dependence, 1310 nm and 1550 nm | ≤ 0.05 dB / km |
| Induced Attenuation at 20°C for 30 days | |
| Damp Heat Dependence, 1310 nm and 1550 nm | ≤ 0.05 dB / km |
| Induced Attenuation at 85°C, 85% R.H., 30 days | |
| Dry Heat Dependence, 1310 nm and 1550 nm | ≤ 0.05 dB / km |
| Induced Attenuation at 85°C, 30 days | |

COMPLIANCE

ETL Listed Type OFNR, CSA FT4, IECA S-83-596 & OFNP, CSA FT6 / IECA S-104-696, GR-409.
 LSZH Listed CPR Dca-s1, d1, a1.
 DoP Available on Request.
 RoHS Compliant Directive 2011/65/EU



PHYSICAL CHARACTERISTICS

| | | |
|--|--------------------------------------|-----------|
| Core / Hybrid Cladding Concentricity Error | ≤ 0.5 μm | |
| Hybrid Cladding Diameter | 125 ± 0.7 μm | |
| Hybrid Cladding Non-Circularity Error | ≤ 1.0% | |
| 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, 1550 nm | 1 turn around 10 mm radius | ≤ 0.3 dB |
| | 10 turns around 15 mm radius mandrel | ≤ 0.03 dB |
| Bend Induced Attenuation, 1625 nm | 1 turn around 10 mm radius | ≤ 1.0 dB |
| | 10 turns around 15 mm radius mandrel | ≤ 0.2 dB |

OPTICAL CHARACTERISTICS

| | | |
|----------------------------|---------------------------------|--------------|
| Attenuation Coefficient | 1310 nm | ≤ 0.35 dB/km |
| | 1550 nm | ≤ 0.21 dB/km |
| 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 | 1310 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/km | |
| Group Index of Refraction | 1310 nm | 1.467 |
| | 1550 nm | 1.468 |