Simplex SSF™

Riser/Plenum I/O/LSZH, 9/125, G657 A2/B2 OS2

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

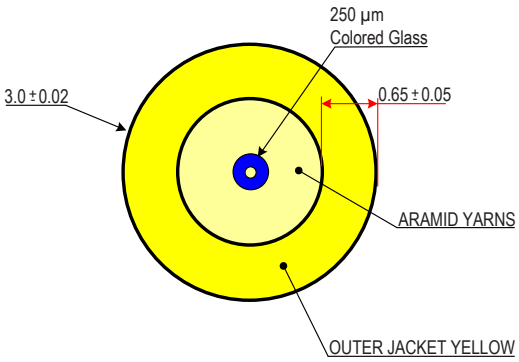
SSF™ Simplex is ideal for inter-building or intra-building data communication backbones.

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



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	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 598C

JACKET	
Type	Riser Rated PVC (Indoor) / Plenum Rated PVC + UV I/O / CPR LSZH (Indoor/Outdoor)
Color	Yellow
Outer Diameter	3.0 mm
Markings	Sequential Foot Markings
Strength Member	(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)	225 lbf / 102 kgf (1000N)
Max Tensile Load Long Term	112 lbf / 50 kgf (500N)
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 / 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 (SSF™ FIBER)	
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_d) 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
Bend Induced Attenuation, 1625 nm	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.
LSZH Listed CPR Cca-s1a,d1,a1.
DoP Available on Request.
RoHS Compliant Directive 2011/65/EU