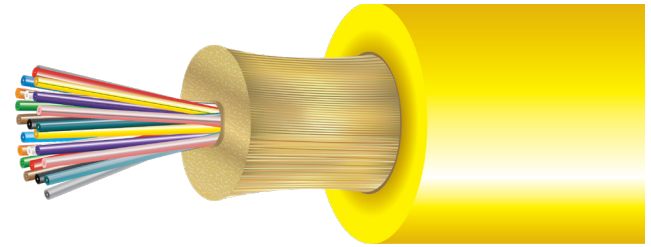


Cleerline SSF™ 24 strand Single Tube fiber optic cable is composed of 24 fibers within a loose tube style cable with an overall plenum jacket.

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 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.



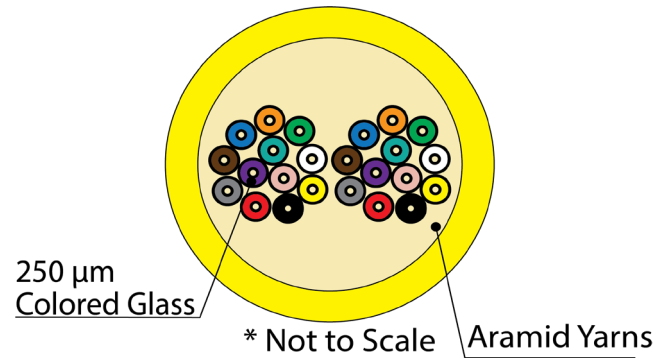
**3D VIEW**

### 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 volume installation 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
24STD9125SMOS2P	24 Fibers	24 Strand - 1000 ft Spool	Plenum	3.1 mm	8.4	3.1 cm
24STD9125SMOS2P-B	24 Fibers	24 Strand - Cut to Order	Plenum	3.1 mm	8.4	3.1 cm

### CONSTRUCTION

FIBER	
Fibers	24
Type	9/125 Single-mode OS2
Coating	250 µm "Soft Peel" S-Type Coating
Color Coding	Per TIA/EIA 598C

JACKET	
Type	Plenum Rated PVC + UV I/O
Color	Yellow
Outer Diameter	3.1 mm
Markings	Sequential Foot Markings
Strength Member	(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)	189 lbf / 85 kgf (800N)
Max Tensile Load Long Term	112 lbf / 50 kgf (500N)
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 (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 <sub>d</sub> ) 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 <sup>2</sup> · 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	
UL Listed Type OFNP, CSA FT6 / IECA S-104-696. RoHS Compliant Directive 2011/65/EU	