

9/125 SSF™ Single Mode OS2 24 Strand Cable Single Tube Plenum I/O

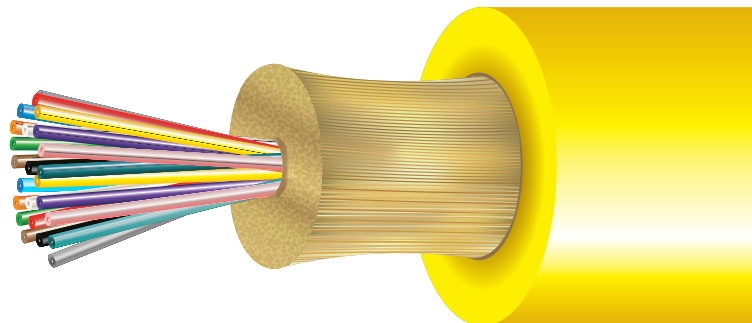
Type: OS2, OFNP, CSA FT6, G.657.A2, G.657.N2, N.652.D



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 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.



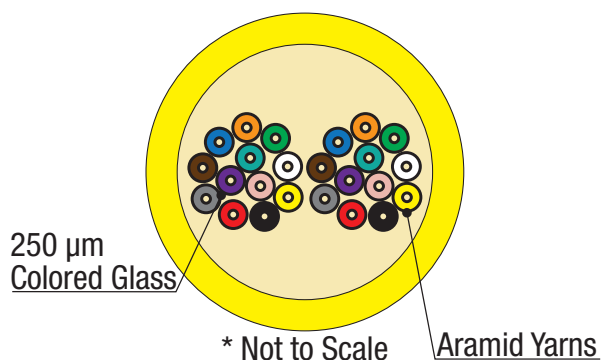
3D VIEW

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-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
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	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, 1310 nm and 1550 nm	≤ 0.05 dB / km
Induced Attenuation	-40°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	

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	
Max Attenuation 1310 nm	< 0.40 dB/km	
Max Attenuation 1550 nm	< 0.30 dB/km	
Bend Induced Attenuation, 1550 nm	1 turn around 10 mm radius	≤ 0.1 dB
	10 turns around 15 mm radius mandrel	≤ 0.03 dB
Bend Induced Attenuation, 1625 nm	1 turn around 10 mm radius	≤ 0.2 dB
	10 turns around 15 mm radius mandrel	≤ 0.1 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

COMPLIANCE	
UL Listed Type OFNP, CSA FT6 / IECA S-104-696. RoHS Compliant Directive 2011/65/EU	 