

50/125 SSF™ Multimode OM3 24 Strand Cable Single Tube Plenum I/O

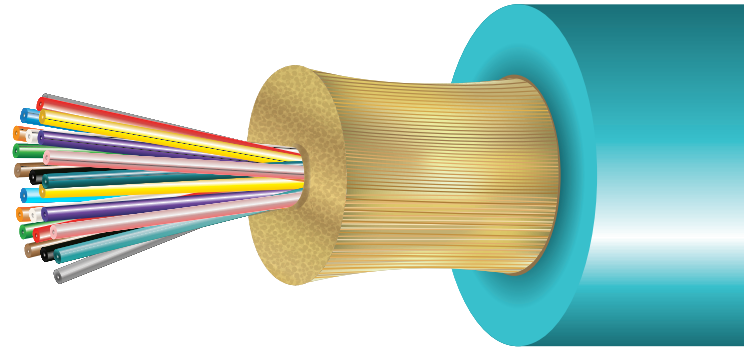
Type: OM3, OFNP, CSA FT6



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 Multimode is fully compatible with all common connector systems for standard 50/125 multimode fiber. The included SSF™ fiber provides extreme durability and strength.



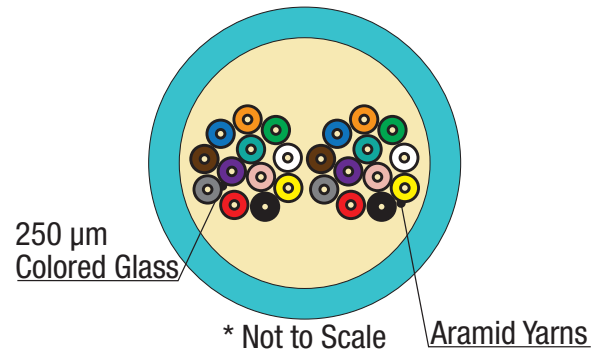
3D VIEW

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
24STD50125MOM3P	24 Fibers	24 Strand - 1000 ft Spool	Plenum	3.1 mm	8.4	3.1 cm
24STD50125MOM3P-B	24 Fibers	24 Strand - Cut to Order	Plenum	3.1 mm	8.4	3.1 cm

CONSTRUCTION

FIBER	
Fibers	24
Type	50/125 Multimode OM3
Coating	250 µm "Soft Peel" S-Type Coating
Color Coding	Per TIA/EIA 598C

JACKET	
Type	Plenum Rated PVC + UV I/O
Color	Aqua
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 (SSF™ FIBER)	
Temperature Dependence, 850 nm and 1300 nm Induced Attenuation -60°C to + 85°C	≤ 0.5 dB / km
Watersoak Dependence, 850 nm and 1300 nm Induced Attenuation at 20°C for 30 days	≤ 0.5 dB / km
Damp Heat Dependence, 850 nm and 1300 nm Induced Attenuation at 85°C, 85% R.H., 30 days	≤ 0.5 dB / km
Dry Heat Dependence, 850 nm and 1300 nm Induced Attenuation at 85°C, 30 days	≤ 0.5 dB / km

PHYSICAL CHARACTERISTICS (SSF™ FIBER)		
Core Diameter	50.0 ± 2.5 µm	
Core Non-circularity	≤ 6%	
Core / Hybrid Cladding Concentricity Error	≤ 3.0 µm	
Hybrid Cladding Diameter	125 ± 2 µm	
Hybrid Cladding Non-Circularity	≤ 2.0%	
Soft Peel Jacket Identifier	245 ± 10 µm	
Coating Strip Force	100 g	
Fiber Curl	≥ 2 m	
Proof Test	100 kpsi	
Dynamic Fatigue (n _d) 23°C, 41% R.H.	≥ 31.72	
Bend Induced Attenuation, 850 nm	2 turns around 15 mm radius mandrel	≤ 0.2 dB
	2 turns around 7.5 mm radius mandrel	≤ 0.5 dB
Length	1.0 - 8.8 Km	

OPTICAL CHARACTERISTICS (SSF™ FIBER)		
Attenuation Coefficient	850 nm	≤ 4.0 dB/km
	1300 nm	≤ 1.5 dB/km
Numerical Aperture	0.200 ± 0.015	
Overfilled Modal Bandwidth	850 nm	≥ 1500 MHz · km
	1300 nm	≥ 500 MHz · km
High Performance EMB	850 nm	≥ 2000 MHz · km

BACKSCATTER CHARACTERISTICS (SSF™ FIBER)		
Attenuation Directional Uniformity	≤ 0.05 dB/km	
Attenuation Uniformity	≤ 0.05 dB	
Group Index of Refraction	850 nm	1.481
	1300 nm	1.476

COMPLIANCE	
UL Listed Type OFNP, CSA FT6 / IEC S-104-696. RoHS Compliant Directive 2011/65/EU SSF™ conforms to the requirement of IEC 60793-2-10 A1a, ISO/IEC 11801 & ITU-T G.651.1 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications.	