2-12 Strand SSF™ Micro-Distribution LT

Riser, Plenum I/O, LSZH I/O 50/125, OM3

Cleerline SSF 2-12 strand fiber Micro Distribution cable is composed of loose tube style SSF fibers with an overall 3.0 mm Riser, Plenum I/O, or LSZH I/O CPR B2ca rated jacket.

SSF Micro Distribution is ideal for inter-building or intra-building data communication backbones.

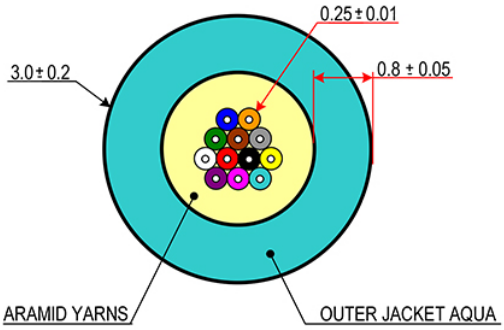
Cleerline SSF Micro Distribution multimode is fully compatible with all common connector systems for standard 50/125 multimode fiber. The included SSF™ fibers provide extreme durability and strength, with up to 10,000 times the bend insensitivity of traditional fiber.



3D VIEW

FEATURES AND BENEFITS

- High mechanical strength, superior fatigue (Nd = 30)
- Compatible with common connector systems for 50/125 Multimode
- 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	JACKET RATING	O.D.	WEIGHT (LB / 1000 FT)
2D50125MOM3X	2 Fibers	2 Strand 50/125 SSF - 1000 ft Spool	X= R/P/L	3.0 mm	6.9
2D50125MOM3X-B	2 Fibers	2 Strand 50/125 SSF - Cut to Order	X= R/P/L	3.0 mm	6.9
4D50125MOM3X	4 Fibers	4 Strand 50/125 SSF - 1000 ft Spool	X= R/P/L	3.0 mm	6.9
4D50125MOM3X-B	4 Fibers	4 Strand 50/125 SSF - Cut to Order	X= R/P/L	3.0 mm	6.9
6D50125MOM3X	6 Fibers	6 Strand 50/125 SSF - 1000 ft Spool	X= R/P/L	3.0 mm	6.9
6D50125MOM3X-B	6 Fibers	6 Strand 50/125 SSF - Cut to Order	X= R/P/L	3.0 mm	6.9
6D50125MOM3P-BK	6 Fibers	6 Strand 50/125 SSF - Black Jacket - 1000 ft spool	Plenum I/O in black	3.0 mm	6.9
6D50125MOM3P-BK-B	6 Fibers	6 Strand 50/125 SSF - Black Jacket - Cut to Order	Plenum I/O in black	3.0 mm	6.9
12D50125MOM3X	12 Fibers	12 Strand 50/125 SSF - 1000 ft Spool	X= R/P/L	3.0 mm	6.9
12D50125MOM3X-B	12 Fibers	12 Strand 50/125 SSF - Cut to Order	X= R/P/L	3.0 mm	6.9
12D50125MOM3P-BK	12 Fibers	12 Strand 50/125 SSF - Black Jacket - 1000 ft spool	Plenum I/O in black	3.0 mm	6.9
12D50125MOM3P-BK-B	12 Fibers	12 Strand 50/125 SSF - Black Jacket - Cut to Order	Plenum I/O in black	3.0 mm	6.9

*X = Jacket Type (R = Riser, P = Plenum, L = LSZH)

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CONSTRUCTION

FIBER	
Fibers	2-12
Type	50/125 Multimode OM3
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 / LSZH CPR Rated + UV I/O
Color	Aqua / Black (6 and 12 strand plenum only)
Outer Diameter	3.0 mm
Markings	Sequential Foot Markings
Strength Member	Aramid (Plenum + water blocking yarns)

PHYSICAL DATA	
Storage Temperature Range	-40°C to +80°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.
Min. Bend Radius, Operation	3.0 mm
Cable Outside Diameter, Nominal	3.0 mm
Cable Package	1000 ft Reel or customer request, spooled
Rating	Riser (OFNR) FT4 / Plenum (OFNP)FT6 / LSZH CPR B2ca
Crush Resistance (TIA/EIA 455-41A)	100 kgf / mm or 200 lbf / mm
Impact Resistance (TIA/EIA 455-25B)	1500 impact cycles
Flexing @ 90 degrees (TIA/EIA 455-104A)	2000 flexing cycles

ENVIRONMENTAL CHARACTERISTICS	
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.	= 30
Length	1.0 - 8.8 Km

OPTICAL CHARACTERISTICS (SSF FIBER)		
Attenuation Coefficient	850 nm	≤ 3.5 dB/km
	1300 nm	≤ 1 dB/km
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
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		
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

ETL Listed Type OFNR, CSA FT4, IECA S-83-596 & OFNP, CSA FT6 / IECA S-104-696.

2- 12 LSZH CPR: B2ca-s1a-d0,a1 (Euroclass) DoP Available on Request.

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.

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