2-24 Strand SSF™ Double Jacket

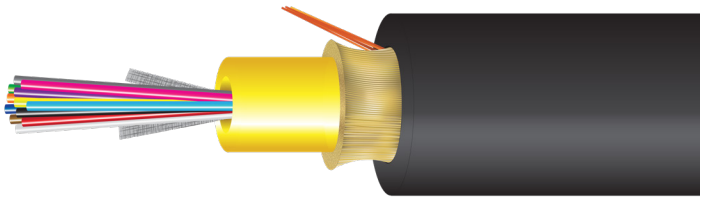
Micro-Distribution LT, Riser I/O, 9/125, G657 A2/B2 OS2

Cleerline SSF™ 2-24 fiber Double Jacketed Micro Distribution cable is composed of a 3.0 mm loose tube style SSF™ cable subunit within an overall Riser rated PVC jacket.

SSF™ Double Jacketed Micro Distribution is ideal for installation outdoors in ducts or indoors in riser spaces and tray installations. It incorporates a second outer jacket adding additional protection to the subunit containing the fibers.

Cleerline SSF™ Micro Distribution single-mode is fully compatible with all common connector systems for standard 9/125 single-mode fiber.

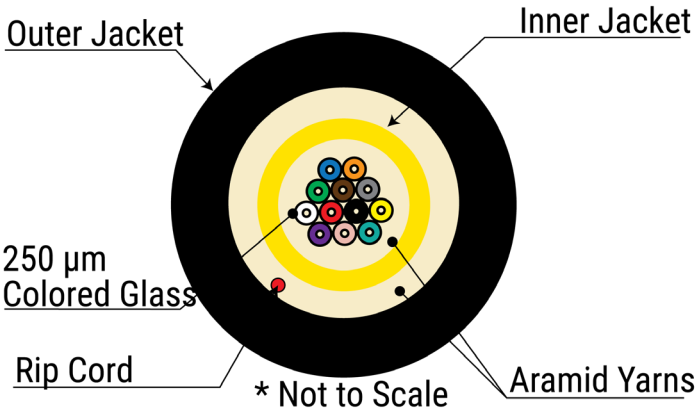
The included SSF™ fiber provides extreme durability and strength.



3D VIEW

FEATURES AND BENEFITS

- High mechanical strength, superior fatigue (Nd = 30)
- 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
- Dielectric construction
- Exclusive 250 µm Soft Peel acrylate
- Double Jacketed Durability



TYPICAL CROSS SECTION

APPLICATIONS

- Installation in ducts outdoors
- Riser space and tray installations
- UL listed type OFNR
- ANSI/TIA-568-C.3 compliant

PART NUMBER	FIBERS	DESCRIPTION	JACKET RATING	O.D.	WEIGHT (LB / 1000 FT)
2DJMD9125OS2R	2 Fibers	2 Strand 9/125 SSF - 1000 ft Spool	Riser I/O	5.0 mm	29
2DJMD9125OS2R-B	2 Fibers	2 Strands 9/125 SSF - Cut to Order	Riser I/O	5.0 mm	29
6DJMD9125OS2R	6 Fibers	6 Strand 9/125 SSF - 1000 ft Spool	Riser I/O	5.0 mm	29
6DJMD9125OS2R-B	6 Fibers	6 Strand 9/125 SSF - Cut to Order	Riser I/O	5.0 mm	29
12DJMD9125OS2R	12 Fibers	12 Strand 9/125 SSF - 1000 ft Spool	Riser I/O	5.0 mm	29
12DJMD9125OS2R-B	12 Fibers	12 Strand 9/125 SSF - Cut to Order	Riser I/O	5.0 mm	29
24DJMD9125OS2R	24 Fibers	24 Strand 9/125 SSF - 1000 ft Spool	Riser I/O	5.0 mm	29
24DJMD9125OS2R-B	24 Fibers	24 Strand 9/125 SSF - Cut to Order	Riser I/O	5.0 mm	29

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CONSTRUCTION

FIBER	
Fibers	2-24
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 + UV (Indoor/Outdoor)
Color	Black
Outer Diameter	5.0 mm
Subunit	3.0 mm, Yellow PVC
Markings	Sequential Foot Markings
Strength Member	Aramid + water blocking yarns
Circumferential Strength Member	Aramid Yarns

PHYSICAL DATA	
Storage Temperature Range	-40°C to +70°C
Operating Temperature Range	-40°C to +70°C
Installation Temperature Range	-20°C to +55°C
Max Tensile Load (Installation)	1320 N (300 lbf)
Max Tensile Load Long Term	500 N (112 lbf)
Min. Bend Radius, Unloaded	1 x O.D.
Cable Outside Diameter, Nominal	5.0 mm
Cable Package	1000 ft Reel or customer request, spooled
Rating	Riser (OFNR) FT4
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 / ($nm^2 \cdot km$)	

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 OFNR, CSA FT4, IECA S-83-596 DoP Available on Request. RoHS Compliant Directive 2011/65/EU

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