9/125 SSF™ Single Mode OS2 Micro Distribution
Rugged Micro Distribution Riser I/O

Type: OS2, OFNR, CSA FT4, Type G.657.A2, G.657.B2, G.652.D

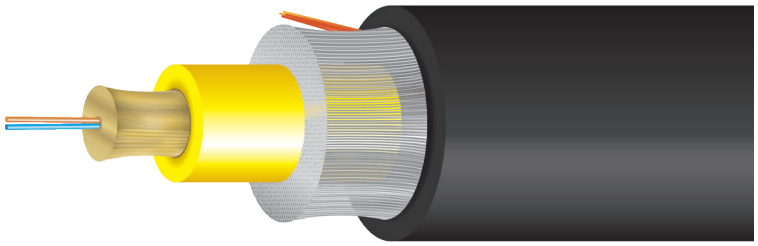
CLEERLINE SSF™

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

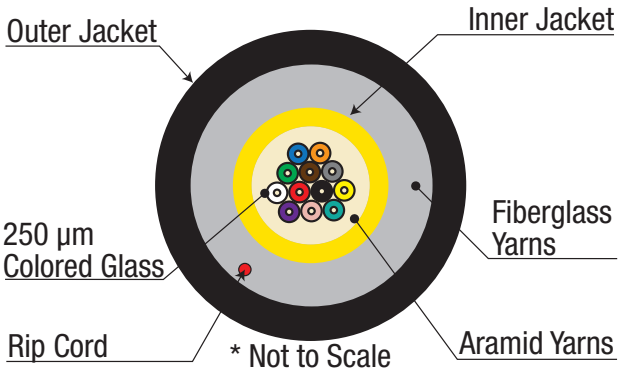
SSF™ Rugged Micro Distribution is ideal for installation outdoors in ducts or indoors in riser spaces and tray installations. This cable incorporates an additional layer of fiberglass yarns for strength. SSF™ Rugged Micro Distribution is also rodent resistant.

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



TYPICAL CROSS SECTION

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
- Dielectric construction
- Exclusive 250 µm Soft Peel acrylate
- Rodent resistant

APPLICATIONS

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

PART NUMBER	FIBERS	DESCRIPTION	TYPE	O.D.	WEIGHT (LB / 1000 FT)
2RMD9125OS2R	2 Fibers	2 Strand 9/125 SSF - 1000 ft Spool	Riser Indoor/Outdoor	6.1 mm	29
2RMD9125OS2R-B	2 Fibers	2 Strand 9/125 SSF - Cut to Order	Riser Indoor/Outdoor	6.1 mm	29
6RMD9125OS2R	6 Fibers	6 Strand 9/125 SSF - 1000 ft Spool	Riser Indoor/Outdoor	6.1 mm	29
6RMD9125OS2R-B	6 Fibers	6 Strand 9/125 SSF - Cut to Order	Riser Indoor/Outdoor	6.1 mm	29
6RMD9125OS2R-B2K	6 Fibers	6 Strand 9/125 SSF - 2000 ft Spool	Riser Indoor/Outdoor	6.1 mm	29
12RMD9125OS2R	12 Fibers	12 Strand 9/125 SSF - 1000 ft Spool	Riser Indoor/Outdoor	6.1 mm	29
12RMD9125OS2R-B	12 Fibers	12 Strand 9/125 SSF - Cut to Order	Riser Indoor/Outdoor	6.1 mm	29
24RMD9125OS2R	24 Fibers	24 Strand 9/125 SSF - 1000 ft Spool	Riser Indoor/Outdoor	6.1 mm	29
24RMD9125OS2R-B	24 Fibers	24 Strand 9/125 SSF - Cut to Order	Riser Indoor/Outdoor	6.1 mm	29

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Date: 6/16/2021 Rev. 2.1

CLEERLINE SSF™

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	6.1 mm
Subunit	3.0 mm, Yellow PVC + UV
Markings	Sequential Foot Markings
Strength Member	Kevlar + water blocking yarns
Circumferential Strength Member	Fiberglass 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)	1000 N (225 lbf)
Max Tensile Load Long Term	500 N (112 lbf)
Min. Bend Radius, Unloaded	1 x O.D.
Cable Outside Diameter, Nominal	6.1 mm
Cable Package	1000 ft Reel or customer request, spooled
Rating	FT4 - Riser
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	
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	
Bend Induced Attenuation, 1550 nm	1 turn around 10 mm radius	≤ 0.3 dB
	10 turns around 15 mm radius mandrel	≤ 0.03 dB
Bend Induced Attenuation, 1625 nm	1 turn around 10 mm radius	≤ 1.0 dB
	10 turns around 15 mm radius mandrel	≤ 0.2 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	
ETL Listed Type OFNR, CSA FT4, IECA S-83-596 RoHS Compliant Directive 2011/65/EU	Intertek RoHS

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