

# 50/125 SSF™ Multimode OM4 Micro Distribution Rugged Micro Distribution Riser I/O

Type: OM4, OFNR, CSA FT4

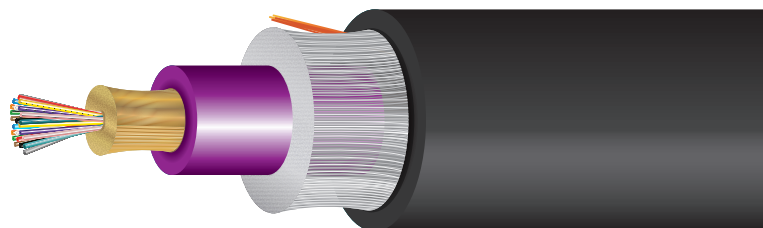


Cleerline SSF™ 6-12 strand Rugged Micro Distribution cable is composed of a 3.0 mm distribution style SSF™ cable subunit within an overall Riser rated PVC jacket.

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 Multimode is fully compatible with all common connector systems for standard 50/125 multimode fiber.

The included SSF™ fiber provides extreme durability and strength.



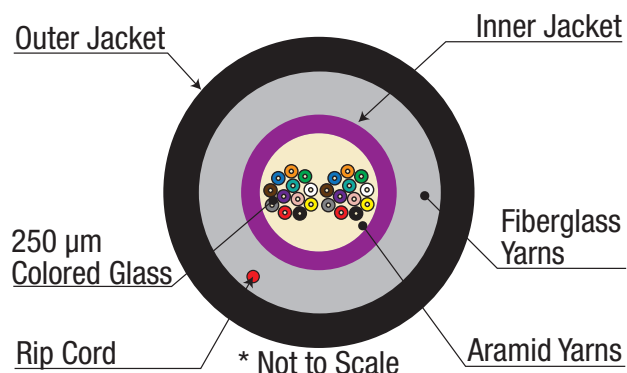
3D VIEW

## FEATURES AND BENEFITS

- High mechanical strength, superior fatigue (nD = 30)  
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



TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	TYPE	O.D.	WEIGHT (LB / 1000 FT)
6RMD501250M4R	6 Fibers	6 Strand 50/125 SSF - 1000 ft Spool	Riser Indoor/Outdoor	6.1 mm	29
6RMD501250M4R-B	6 Fibers	6 Strand 50/125 SSF - Cut to Order	Riser Indoor/Outdoor	6.1 mm	29
12RMD501250M4R	12 Fibers	12 Strand 50/125 SSF - 1000 ft Spool	Riser Indoor/Outdoor	6.1 mm	29
12RMD501250M4R-B	12 Fibers	12 Strand 50/125 SSF - Cut to Order	Riser Indoor/Outdoor	6.1 mm	29

## CONSTRUCTION

FIBER	
Fibers	6, 12
Type	50/125 Multimode OM4
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, Violet 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, 850 nm and 1300 nm	≤ 0.5 dB / km
Induced Attenuation	-60°C to + 85°C
Watersoak Dependence, 850 nm and 1300 nm	≤ 0.5 dB / km
Induced Attenuation at 20°C for 30 days	
Damp Heat Dependence, 850 nm and 1300 nm	≤ 0.5 dB / km
Induced Attenuation at 85°C, 85% R.H., 30 days	
Dry Heat Dependence, 850 nm and 1300 nm	≤ 0.5 dB / km
Induced Attenuation at 85°C, 30 days	

PHYSICAL CHARACTERISTICS		
Core Diameter	50.0 ± 2.5 µm	
Core Non-circularity	≤ 6%	
Core / Hybrid Cladding Concentricity Error	≤ 3.0 µm	
Hybrid Cladding Diameter	125 ± 0.7 µm	
Hybrid Cladding Non-Circularity Error	≤ 3.0%	
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, 1300 nm	100 turns around 75 mm diameter mandrel	≤ 1.0 dB
Length	1.0 - 8.8 Km	

OPTICAL CHARACTERISTICS		
Attenuation Coefficient	850 nm	≤ 3.0 dB/km
	1300 nm	≤ 1.0 dB/km
Numerical Aperture	0.200 ± 0.015	
Overfilled Modal Bandwidth	850 nm	≥ 3500 MHz · km
	1300 nm	≥ 500 MHz · km
High Performance EMB	850 nm	≥ 4700 MHz · km

BACKSCATTER CHARACTERISTICS		
Attenuation Directional Uniformity	≤ 0.05 dB/km	
Attenuation Uniformity	≤ 0.05 dB/km	
Group Index of Refraction	850 nm	1.481
	1300 nm	1.476

COMPLIANCE	
<p>ETL Listed Type OFNR, CSA FT4, IECA S-83-596.            RoHS Compliant Directive 2011/65/EU            SSF™ conforms to the requirement of IEC 60793-2-10 A1a, ISO/IEC 11801 &amp; ITU-T G.651.1 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications.</p>	