50/125 SSF[™] Multimode OM3 Micro Distribution **Tactical Outdoor Cable with 3.0 mm Subunit**

Type: OM3, PU Jacket



Cleerline SSF[™] Tactical Micro Distribution cable is composed of an overall jacket with a 3.0 mm subunit containing the fiber strands.

SSF[™] Tactical cable is designed for installations where cable may need to be removed or changed, such as rental or staging applications. Tactical PU jacketing provides increased durability, UV and chemical resistance, and extreme flexibility. This cable is outdoor rated.

The included SSF[™] fibers feature patented SSF[™] polymer coating for extreme durability and ease of installation. Flex tested to 2000 cycles, impact to 1500 cycles, and crush resistance to 100 kgf / mm.

FEATURES AND BENEFITS

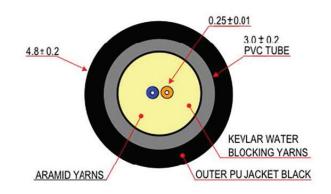
- All dielectric construction - no grounding / bonding required
- High mechanical strength, superior fatigue (nD = 30) •
- Compatible with common connector systems for • 50/125 multimode fibers
- Up to 10,000x the bend longevity of traditional fiber •
- Integral SSF[™] coating provides glass protection •
- Increased safety due to incredible bend insensitivity •
- Exclusive 250 µm Soft Peel acrylate

APPLICATIONS

- Installations requiring portability cable can be retracted onto a reel
- Harsh environments: temporary or permanent industrial, broadcast, or abrasive/chemical environments
- High crush environments



3D VIEW



TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	ТҮРЕ	0.D.	WEIGHT (LB / 1000 FT)
2TMD501250M3PU	2 Fibers	2 Strand Tactical - 1000 ft Spool	PU	4.8 mm	36.9
2TMD501250M3PU-B	2 Fibers	2 Strand Tactical - Cut to Order	PU	4.8 mm	36.9
6TMD501250M3PU	6 Fibers	6 Strand Tactical - 1000 ft Spool	PU	4.8 mm	36.9
6TMD501250M3PU-B	6 Fibers	6 Strand Tactical - Cut to Order	PU	4.8 mm	36.9
12TMD501250M3PU	12 Fibers	12 Strand Tactical - 1000 ft Spool	PU	4.8 mm	36.9
12TMD501250M3PU-B	12 Fibers	12 Strand Tactical - Cut to Order	PU	4.8 mm	36.9

CLEERLINE TECHNOLOGY GROUP, LLC

Web: www.cleerlinefiber.com

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Date: 10/11/2019 Rev. 1.8

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CONSTRUCTION

FIBER	
Fibers	2, 6, 12
Туре	50/125 Multimode OM3
Coating	250 µm "Soft Peel" S-Type Coating
Color Coding	Per TIA/EIA 598C

PHYSICAL DATA

Storage Temperature Range	-40°C to +80°C	
Operating Temperature Range	-20°C to +75°C	
Max Tensile Load (Installation)	1000 N (225 lbf)	
Max Tensile Load Long Term	500 N (112 lbf)	
Cable Outside Diameter, Nominal	4.8 mm	
Min. Bend Radius, Installation	11.5 cm	
Min. Bend Radius, Operation	5.0 cm	
Subunit Min. Bend Radius, Unloaded	3.0 mm	
Cable Package	1000 ft Reel or customer request, spooled	
Rating	Outdoor	
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	\leq 0.5 dB / km
Induced Attenuation	-60°C to + 85°C
Watersoak Dependence, 850 nm and 1300 nm	\leq 0.5 dB / km
Induced Attenuation at 20°C for 30 days	
Damp Heat Dependence, 850 nm and 1300 nm	\leq 0.5 dB / km
Induced Attenuation at 85°C, 85% R.H., 30 days	
Dry Heat Dependence, 850 nm and 1300 nm	\leq 0.5 dB / km
Induced Attenuation at 85°C, 30 days	

COMPLIANCE

IECA S-104-696. RoHS Compliant Directive 2011/65/EU SSF[™] conforms to the requirement of IEC 60793-2-10 A1a.3, ISO/IEC 11801 & ITU-T G.651.1 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications.



JACKET	
Туре	Tactical Polyurethane (PU), Outdoor
Color	Black
Outer Diameter	4.8 mm
Subunit Jacket	3.0 mm Flame Retardant PVC
Markings	Sequential Foot Markings
Strength Member	Kevlar + water blocking yarns

PHYSICAL CHARACTERIST	ICS		
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	$\geq 2 m$		
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	\leq 1.0 dB	
Length	1.0 - 8.8 Km		

OPTICAL CHARACTERISTICS			
Attenuation Coefficient	850 nm	\leq 3.0 dB/km	
	1300 nm	\leq 1.0 dB/km	
Numerical Aperture		0.200 ± 0.015	
Overfilled Modal Bandwidth	850 nm	\geq 1500 MHz \cdot km	
	1300 nm	\geq 500 MHz \cdot km	
High Performance EMB	850 nm	\ge 2000 MHz \cdot 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	

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