

50/125 SSF™ OM3 & CAT6 UTP Jacketed Riser Cable SSF™ Fiber & Category Bundled Cable

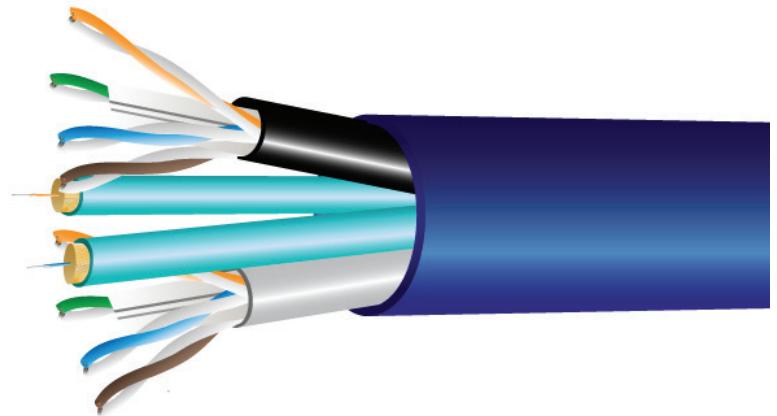
Type: OM3, OFNR, CSA FT4. CMR



Cleerline SSF™ Fiber & Category cable is composed of two simplex OM3 fibers with two Category 6 cables. The fibers and cables are contained within an overall riser-rated PVC jacket.

SSF™ Fiber & Category cable is ideal for creating future-proof installations. Save time by running both fiber optic and Category cables simultaneously.

The included SSF™ fibers feature patented SSF™ polymer coating for extreme durability, bend insensitivity, and ease of termination. Cleerline SSF™ multimode fibers are compatible with all common connector systems for traditional 50/125 multimode fibers optic cables.



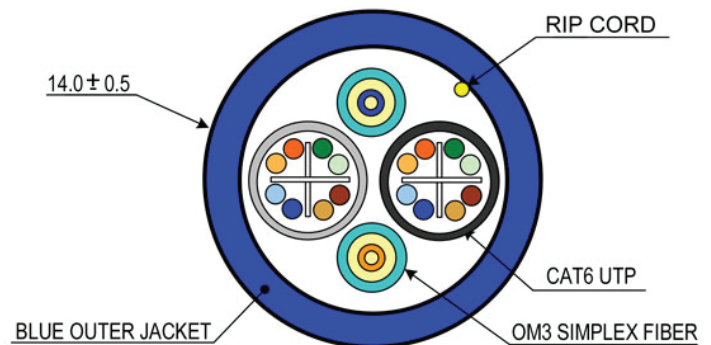
3D VIEW

FEATURES AND BENEFITS

- High mechanical strength
- Superior fatigue and durability (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

APPLICATIONS

- Future-proof installations by running both fiber and Category cables



TYPICAL CROSS SECTION

PART NUMBER	DESCRIPTION	FIBERS	O.D.	WEIGHT (LB / 1000 FT)
2C62501250M3R	2 Cat6 + 2 Simplex OM3 Bundled Cable, 500 ft spool	2 Fibers	14.0 mm	75.6
2C62501250M3R-B	2 Cat6 + 2 Simplex OM3 Bundled Cable, cut to order	2 Fibers	14.0 mm	75.6

CONSTRUCTION

FIBER	
Fibers	Simplex = 2 / UTP/CAT6 = 2
Type	50/125 Multimode
Coating	250 µm "Soft Peel" S-Type Coating
Color Coding	Per TIA/EIA 598C

JACKET	
Type	Riser Rated PVC (Indoor)
Color	Blue overall jacket; Aqua subs = OM3
Outer Diameter	14.0 mm
Markings	Sequential Foot Markings
Strength Member	Kevlar + water blocking yarns

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Date: 2/13/2022 Rev. 2.0

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)
Min. Bend Radius, Unloaded	10 x O.D. (10 x 14 mm)
Min. Bend Radius, Loaded	20 x OD (20 x 14 mm)
Cable Outside Diameter, Nominal	14.0 mm
Cable Package	500 ft / 152.4 m
Rating	OFNR/FT4/Riser

OM3 Fibers (OD = 3.0 mm x 2)

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

CAT6 Cables (OD = 6.1 mm x 2)

Conductor	Solid plain annealed bare copper 23 AWG
Outer Diameter	6.1 ± 0.3 mm
Ripcord	Tetoron wire
Twisting	4 twisted pair, 2 single conductors paired
Twisted Pair Color Code 1	White-blue / blue
Twisted Pair Color Code 2	White-orange / orange
Twisted Pair Color Code 3	White-green / green
Twisted Pair Color Code 4	White-brown / brown
Cable Lay-Up	Non-metallic cross separator (spine) or FRPE cross separator (spine).
Rating	Riser, CMR

ENVIRONMENTAL CHARACTERISTICS (SSF™ FIBER)

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.	≥ 31.72	
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
Length	1.0 - 8.8 Km	

OPTICAL CHARACTERISTICS (SSF™ FIBER)

Attenuation Coefficient	850 nm	≤ 4.0 dB/km
	1300 nm	≤ 1.5 dB/km
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 (SSF™ FIBER)

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

UL Listed OFNR C(UL)US - CSA FT4 - CMR
 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.

