

# 50/125 SSF™ Multimode OM4, 3.0 mm Jacketed Duplex Riser / Plenum I/O / LSZH Cable

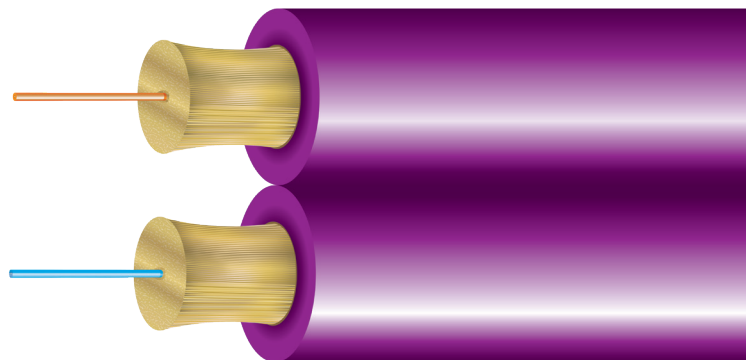
Type: OM4, OFNR, CSA FT4 / OFNP, CSA FT6 / CPR LSZH



Cleerline SSF™ Duplex cable is composed of two strands of SSF™ cable in zipcord style with an overall 3.0 mm Riser, Plenum, or CPR-rated LSZH jacket.

SSF™ Duplex is ideal for inter-building or intra-building data communication backbones. The cable's zipcord construction allows easy separation of the fiber strands if desired.

Cleerline SSF™ Duplex Multimode is fully compatible with all common connector systems for standard 50/125 multimode fibers. The included SSF™ fibers provide extreme durability and strength, with up to 10,000 times the bend insensitivity of traditional fiber.



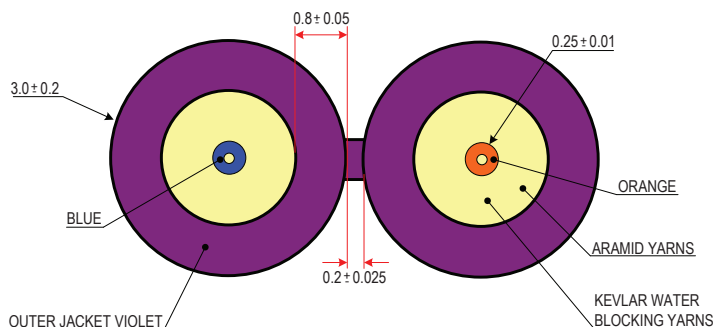
3D VIEW

## FEATURES AND BENEFITS

- Zipcord construction - easy to separate strands
- 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

- Inter-/Intra-building voice or data communication
- Installation in ducts or underground conduit
- Fiber-to-the-desk (FTTD) / Fiber-to-the-Home (FTTH)
- ETL listed type OFNP for installation in ducts, plenums and other spaces used as environmental air returns when installed in accordance with NEC article 770-51 (a) and 770-53(a)



TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	TYPE RISER/PLENUM/LSZH	O.D.	WEIGHT (LB / 1000 FT)
D50125MOM4X	2 Fibers	Duplex 50/125 SSF - 1000 ft Spool	X= R/P/L	3.0 mm x 2	13.2
D50125MOM4X-B	2 Fibers	Duplex 50/125 SSF - Cut to Order	X= R/P/L	3.0 mm x 2	13.2

## CONSTRUCTION

FIBER	
Fibers	2
Type	50/125 Multimode OM4
Coating	250 µm "Soft Peel" S-Type Coating (1 = Blue, 2 = Orange)
Color Coding	Per TIA/EIA 598C

JACKET	
Type	Riser Rated PVC (Indoor) / Plenum Rated PVC + UV I/O / CPR LSZH (Indoor/Outdoor)
Color	Violet
Outer Diameter	3.0 mm x 2 (6.2 mm)
Markings	Sequential Foot Markings
Strength Member	Kevlar (Plenum + water blocking yarns)

## CLEERLINE TECHNOLOGY GROUP, LLC

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### PHYSICAL DATA

Storage Temperature Range	-40°C to +85°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	1 x O.D.
Cable Outside Diameter, Nominal	3.0 mm x 2
Cable Package	1000 ft Reel or customer request, spooled
Rating	FT4 - Riser / FT6-Plenum / CPR LSZH
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 23°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	

### COMPLIANCE

ETL Listed Type OFNR, CSA FT4, IECA S-83-596 & OFNP, CSA FT6 / IECA S-104-696, LSZH Listed CPR Cca-s1a, d1, a1. DoP Available on Request. RoHS Compliant Directive 2011/65/EU SSF™ conforms to the requirement of IEC 60793 A1a, ISO/IEC 11801 & ITU-T G.651.1 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications.



### 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