

# 9/125 SSF™ + BSF™ Single Mode OS2, 3.0 mm Jacketed Hybrid Duplex Demarc Plenum

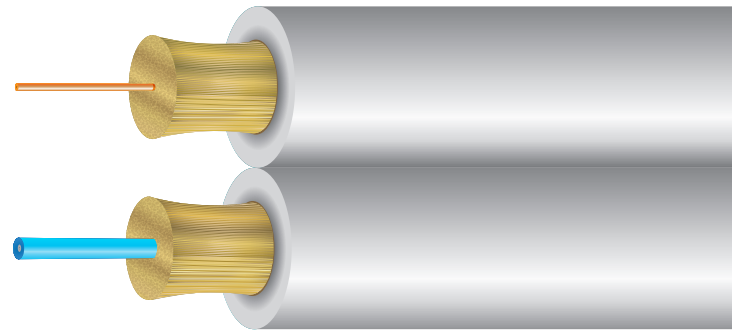
Type: OS2, OFNP, Type G.657.A2, G657.B2, G.652.D



Cleerline SSF™ Hybrid Demarc cable is composed of one strand of SSF™ cable and one strand of BSF™ BendSafe traditional fiber in zipcord style with an overall 3.0 mm Plenum-rated jacket.

SSF™ Hybrid Demarc cable is intended to provide a solution for service providers and SSF™ installers. The included BSF™ fiber is a bend-insensitive fiber with a 900 µm buffer coating. The BSF™ fiber does not have SSF™ polymer coating and requires traditional termination and handling. It is intended for the use of service providers who may encounter this cable after installation and be unfamiliar with SSF™ fiber technology.

Compatible with connectors for 9/125 single mode fibers.



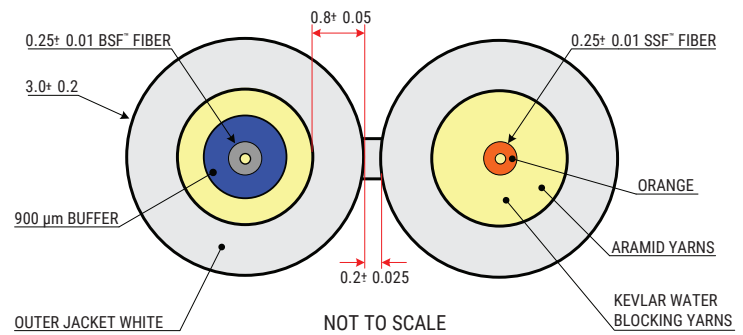
3D VIEW

## FEATURES AND BENEFITS

- Compatible with common connector systems for 9/125 µm single mode fibers.
- Zipcord construction - easy to separate strands
- BSF™ allows fusion splicing without removal of SSF™ polymer coating
- Color coated fibers: BSF™ = blue; SSF™ = orange

## APPLICATIONS

- Service demarc
- Installations requiring both mechanical splice and fusion splice terminations
- Ideal for service provider-related fiber optic installations



TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	TYPE RISER/PLENUM/LSZH	O.D.	WEIGHT (LB / 1000 FT)	BEND RADIUS
DH9125SMOS2P	2 Fibers	Hybrid Demarc Duplex 9/125 SSF - 1000 ft Spool	Plenum	3.0 mm x 2	13.2	SSF™ = 1x O.D. BSF™ = 10 x O.D.
DH9125SMOS2P-B	2 Fibers	Hybrid Demarc Duplex 9/125 SSF - Cut to Order	Plenum	3.0 mm x 2	13.2	SSF™ = 1x O.D. BSF™ = 10 x O.D.

## CONSTRUCTION

FIBER	
Fibers	2
Type	9/125 Single Mode OS2
Coating	900 µm BSF™ BendSafe Fiber = blue 250 µm "Soft Peel" S-Type Coating = orange
Color Coding	Per TIA/EIA 598C

JACKET	
Type	900 µm BSF™ BendSafe Fiber = blue 250 µm "Soft Peel" S-Type Coating = orange
Color	White
Outer Diameter	3.0 mm x 2 (6.2 mm)
Markings	Sequential Foot Markings
Strength Member	Kevlar (Plenum + water blocking yarns)

**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.
Min. Bend Radius, Operation	10 x O.D.
Cable Outside Diameter, Nominal	3.0 mm x 2
Cable Package	1000 ft Reel / Customer request, spooled
Rating	FT6-Plenum
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

**PHYSICAL CHARACTERISTICS (SSF™ FIBER)**

Core / Hybrid Cladding Concentricity Error	≤ 0.5 μm	
Hybrid Cladding Diameter	125 ± 0.7 μm	
Hybrid Cladding Non-Circularity	≤ 1.0%	
Soft Peel Jacket Identifier	245 ± 10 μm	
Coating Strip Force	≤ 100 g	
Fiber Curl	≥ 2 m	
Proof Test	0.69 Gpa (100 kpsi)	
Dynamic Fatigue (n <sub>d</sub> ) 23°C, 41% R.H.	≥ 31.7	
Bend Induced Attenuation, 1550 nm	1 turn around 7.5 mm radius mandrel	≤ 0.5 dB
	10 turns around 15 mm radius mandrel	≤ 0.03 dB
Bend Induced Attenuation, 1625 nm	1 turn around 7.5 mm radius mandrel	≤ 1.0 dB
	10 turns around 15 mm radius mandrel	≤ 0.1 dB

**ENVIRONMENTAL CHARACTERISTICS (SSF™ FIBER)**

Temperature Dependence, 1310 nm and 1550 nm Induced Attenuation -60°C to + 85°C	≤ 0.5 dB / km
Watersoak Dependence, 1310 nm and 1550 nm Induced Attenuation at 20°C for 30 days	≤ 0.5 dB / km
Damp Heat Dependence, 1310 nm and 1550 nm Induced Attenuation at 85°C, 85% R.H., 30 days	≤ 0.5 dB / km

**OPTICAL CHARACTERISTICS (SSF™ FIBER)**

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	1300 nm - 1324 nm	
Zero Dispersion Slope	0.092 ps / (nm <sup>2</sup> · km)	

**PHYSICAL CHARACTERISTICS (BSF™ FIBER)**

Core / Cladding Concentricity Error	≤ 0.5 μm	
Cladding Diameter	124 ± 0.7 μm	
Cladding Non-Circularity	≤ 1.0 %	
Acrylate Coating Diameter	245 ± 10 μm	
Cladding Concentricity Error	≤ 6.0 μm	
Fiber Curl	≥ 4 m	
Coating Strip Force	≥ 130 g	
Proof Test	100 kpsi	
Bend Induced Attenuation, 1550 nm	1 turn around 7.5 mm radius mandrel	≤ 0.5 dB
	1 turn around 10 mm radius mandrel	≤ 0.1 dB
	10 turns around 15 mm radius mandrel	≤ 0.03 dB
Length	4.0 - 50.4 Km	

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	1550 nm	≤ 0.21 dB/km
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**COMPLIANCE**

ETL Listed Type OFNP, CSA FT6 / IECA S-104-696. RoHS Compliant Directive 2011/65/EU	 
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