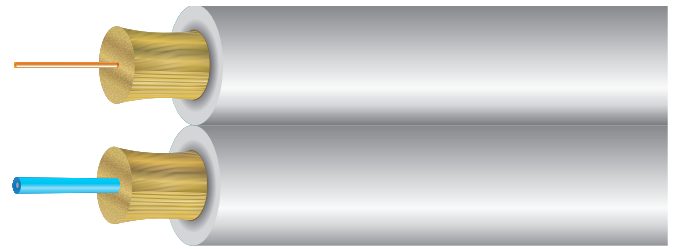


## Plenum I/O, 9/125, G657 A2/B2 OS2

Cleerline SSF™ Hybrid Demarc cable is composed of one strand of SSF™ cable and one strand of 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 BendSafe® fiber is a bend-insensitive fiber with a 900 µm buffer coating. The BendSafe® 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.

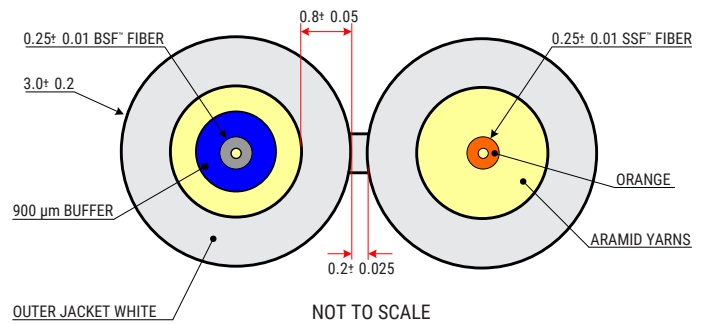
Compatible with connectors for 9/125 single-mode fibers.



3D VIEW

### FEATURES AND BENEFITS

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



TYPICAL CROSS SECTION

### APPLICATIONS

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

PART NUMBER	FIBERS	DESCRIPTION	JACKET RATING	O.D.	WEIGHT (LB / 1000 FT)
DH9125SMOS2P	2 Fibers	Hybrid Demarc Duplex 9/125 SSF/BSF - 1000 ft Spool	Plenum I/O	3.0 mm x 2	13.2
DH9125SMOS2P-B	2 Fibers	Hybrid Demarc Duplex 9/125 SSF/BSF - Cut to Order	Plenum I/O	3.0 mm x 2	13.2

**CONSTRUCTION**

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

JACKET	
Type	900 µm 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	(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)	225 lbf / 102 kgf (1000N)
Max Tensile Load Long Term	112 lbf / 50 kgf (500N)
Min. Bend Radius, SSF	1 x O.D.
Min. Bend Radius, BSF (Traditional)	10 x O.D.
Cable Outside Diameter, Nominal	3.0 mm x 2
Cable Package	1000 ft Reel / Customer request, spooled
Rating	Plenum (OFNP) FT6
Crush Resistance (TIA/EIA 455-41A)	100 kgf / mm or 200 lbf / 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.	= 30

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
Bend Induced Attenuation, 1550 nm	1 turn around a 7.5 mm radius mandrel	Typical = 0.15dB ITUT-T G657 ≤ 0.5 dB
	1 turn around a 7.5 mm radius mandrel	Typical = 0.35 ITUT-T G657 ≤ 1.0 dB
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 (BENDSAFE® 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
Length	4.0 - 50.4 Km
Fatigue Resistance Parameter @23 °C, 41% RH	= 27 Nd

OPTICAL CHARACTERISTICS (BENDSAFE® 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
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
Cable Cut-off Wavelength	≤ 1260 nm	
Zero Dispersion Wavelength	1300 nm - 1324 nm	
Zero Dispersion Slope	0.092 ps / (nm <sup>2</sup> · km)	

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