

COMPONENT SPECIFICATIONS

9/125 SSF-S Singlemode 3.0mm Jacketed Simplex Riser and Plenum Cables



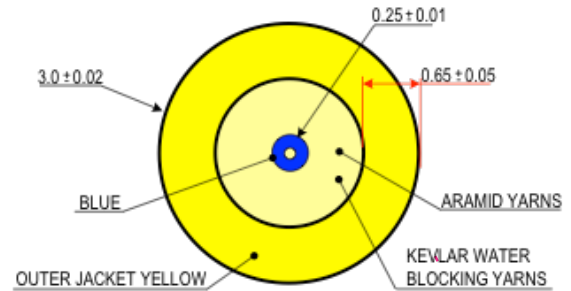
Type OFNR, CSA FT4, and Type OFNP, CSA FT6
Product Type G.657.A2, G657.B2, and G.652.D

Cleerline SSF advanced optical glass fibers are much stronger, safer, and faster terminating than typical fibers. This simplex style cable provides the ultimate in durability and bend with ease of termination. SSF fibers are always protected at the glass level as a result of their integral polymeric coating, increasing both bend and tensile strength to unprecedented levels. Cleerline SSF fibers are compatible with all common connector systems on the market for standard 50/125 multimode and 9/125 Singlemode fibers.

Features And Benefits:

- * High mechanical strength and superior fatigue & durability
- * Integral coating eliminates stripping, provides glass protection
- * Bend longevity for 10,000X longer life time than normal fibers
- * Increased safety factor due to the incredible bend insensitivity
- * Glass fiber remains protected at all times from the elements
- * Simplified termination process designed for ease of use
- * Ultra low Attenuation loss on tight bend radius
- * Exclusive 250um Soft peel jacket identifier

Simplex Riser / Plenum Typical Cross Sections



CONSTRUCTION

FIBER

Number of Fibers; Simplex = 1
9/125 Singlemode Dry w/super-absorbant polymer
250um "Soft Peel" coating (1 = Blue)
Color Coding per TIA/EIA 568C

JACKET

PVC UV, moisture resistant Riser Rated PVC / Plenum Rated PVC
3.0mm unit diameter
Yellow jacket - Singlemode fiber
Sequential footage markings*
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 for Installation = 1000(225) N (lbf)
Max Tensile Long Load term = 500(112) N (lbf)
Min. Bend Radius, Unloaded = 10 x OD (10 x 3mm)
Cable Outside Diameter, Nominal = 3.0mm
Cable Package = Cut to customer request,
Spooled, 1,000ft/340m minimum
Rating = OFNR/FT4/Riser or OFNP/FT6/Plenum

APPLICATIONS

Interbuilding and intrabuilding voice or data communication backbones requiring 3.0mm jacket diameter. Install in ducts, underground conduits or aerial/lashed ETL Listed OFNP for installation in plenum airways and and general horizontal applications when installed in accordance with the NEC article 770-51 (a) and 770-53 (a). 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)

ENVIRONMENTAL CHARACTERISTICS

Temperature Dependence at 1310 nm and 1550 nm ≤ 0.05 (dB/km)
Induced Attenuation - 40°C to +85°C
Watersoak Dependence at 1310 nm and 1550 nm ≤ 0.05 (dB/km)
Induced Attenuation at 20°C for 30 days
Damp Heat Dependence at 1310 nm and 1550 nm ≤ 0.05 (dB/km)
Induced Attenuation at 85°C, 85%R.H., 30 days
Dry Heat Dependence at 85°C and 1300 nm ≤ 0.05 (dB/km)
Induced Attenuation at 85°C, 30 days

PART NUMBER

PART NUMBER	PART DESCRIPTION	FIBER COUNT	NOMINAL DIAMETER	CABLE WEIGHT	TOTAL WEIGHT
S19125SMOSR	Simplex Riser	1 Fiber/s	3.0mm	6.61 lbs/kft	7.71 lbs
S19125SMOSP	Simplex Plenum	1 Fiber/s	3.0mm	6.61 lbs/kft	7.71 lbs

SSF complies or exceeds the ITU-T recommendations G.657 A2, G657 B2 and G.652 D, the IEC International Standard 60793-2-50 type B.1.3 and B.6.A&B Optical Fiber Specification.

OPTICAL CHARACTERISTICS*

Attenuation Coefficient	1310 nm	≤ 0.35 (dB/km)
	1550 nm	≤ 0.21 (dB/km)
Mode Field Diameter	1310 nm	8.6 ± 0.4um
	1550 nm	9.7 ± 0.5um
Cable Cut-off Wavelength		≤ 1260 nm
Zero Dispersion Wavelength		1310nm-1324nm
Zero Dispersion Slope		0.092ps / (nm ² .km)

BACKSCATTER CHARACTERISTICS

Attenuation Directional Uniformity		≤ 0.03 (dB/km)
Attenuation Uniformity		≤ 0.05 (dB)
Group Index of Refraction	1310 nm	1.467
	1550 nm	1.468

PHYSICAL CHARACTERISTICS

Core / Hybrid Cladding Concentricity Error	≤ 0.5 (µm)
Hybrid Cladding Diameter	125 ± 0.7 (µm)
Hybrid Cladding Non-Circularity Error	≤ 1.0 (%)
Soft Peel Jacket Identifier Diameter	250 ± 0.7 (µm)
Coating Strip Force	≤ 100 (g)
Fiber Curl	≥ 2 (m)
Proof Test	100 (kpsi)
Bend Induced Attenuation	
1550nm 1 turn 10mm radius	≤ 0.3 (dB)
10 turns around a mandrel of 15 mm radius	≤ 0.03 (dB)
1625nm 1 turn 10mm radius	≤ 1.0 (dB)
10 turns around a mandrel of 15 mm radius	≤ 0.2 (dB)

COMPLIANCE

ETL Listed OFNR - CSA FT4 and ONFP - CSA FT6
RoHS Compliant Directive 2011/65/EU

*Ensured via mini EMBC per TIA/EIA 455-220A and ICEA S-104-696

