COMPONENT SPECIFICATIONS
9/125 SSF™ Singlemode OS2, 3.0mm Jacketed Duplex Riser / Plenum I/O / LSZH Cables

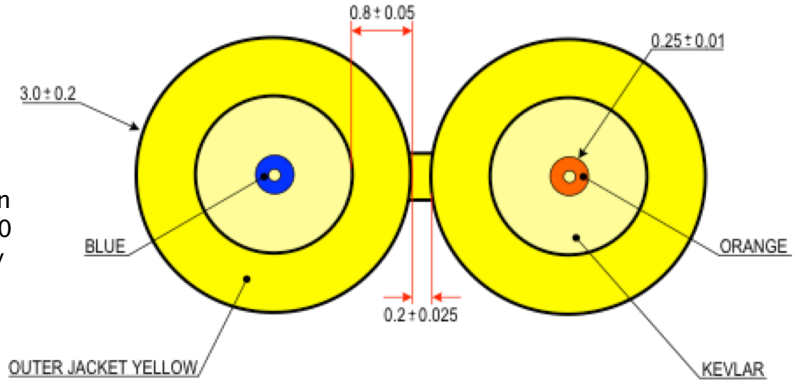
Type OS2, OFNP, OFNR, LSZH, Product Type G.657.A2, G657.B2, and G.652 .D

Cleerline SSF™ advanced optical glass fibers are much stronger, safer, and faster terminating than typical fibers. This duplex 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
* 10,000x the bend of standard fiber, Fatigue constant (Nd) >30
* 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

Duplex Typical Cross Section



CONSTRUCTION

FIBER

Number of Fibers; Duplex = 2
9/125 Singlemode Dry w/super-absorbant polymer
250um "Soft Peel" coating (1 = Blue, 2 = Orange)
Color Coding per TIA/EIA 568C

JACKET

Riser Rated PVC / Plenum Rated PVC + UV I/O/ LSZH
3.0mm unit diameter
Yellow jacket = Singlemode fiber OS2
Sequential footage markings
Kevlar (Plenum/LSZH + water blocking yarns Indoor/Outdoor)

PHYSICAL DATA

Storage Temperature Range	= -40℃ to +85 ℃
Operating Temperature Range	= -20℃ to +75 ℃
Max Tensile Load for Installation	= 1000(225) N (lbf)
Max Tensile Load Long term	= 500(112) N (lbf)
Min. Bend Radius, Unloaded	= 1 x OD (1 x 3.0mm)
Cable Outside Diameter, Nominal	= 3.0mm x2 (6.2mm)
Cable Package	= 1000ft/304.8m Reel*

*Or customer request, spooled

Rating = FT4-Riser / FT6-Plenum / LSZH

Crush Resistance (TIA/EIA 455-41A)	= 100 kgf/mm
Impact Resistance (TIA/EIA 455-25B)	= 1500 Impact cycles
Flexing @ 90 degree (TIA/EIA 455-104A)	= 2000 flexing cycles

APPLICATIONS

Inter-building and intra-building voice or data communication backbones requiring 3.0mm jacket diameter. Install in ducts, underground conduits or aerial/lashed Light weight ultra flexible design simplifies installation.
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)

ENVIRONMENTAL CHARACTERISTICS

Temperature Dependence at 1310 nm and 1550 nm ≤ 0.05 (db/km)
Induced Attenuation - 40℃ to +85℃
Watersoak Dependence at 1310 nm and 1550 nm ≤ 0.05 (db/km)
Induced Attenuation at 20℃ for 30 days
Damp Heat Dependence at 1310 nm and 1550 nm ≤ 0.05 (db/km)
Induced Attenuation at 85℃, 85%R.H., 30 days
Dry Heat Dependence at 850 nm and 1300 nm ≤ 0.05 (db/km)
Induced Attenuation at 85℃,, 30 days

PART NUMBER

PART NUMBER	PART DESCRIPTION	FIBER COUNT	NOMINAL DIAMETER	CABLE WEIGHT	TOTAL WEIGHT
D29125SMOSR	Duplex Riser	2 Fiber/s	3.0mm x 2	13.2 lbs / 1000 9.0 kg / km	15.43 lbs 6.99 kg
D50125MOM3P	Duplex Plenum	2 Fiber/s	3.0mm x 2	13.2 lbs / 1000 9.0 kg / km	15.43 lbs 6.99 kg
D50125MOM3L	Duplex LSZH	2 Fiber/s	3.0mm x 2	13.2 lbs / 1000 9.0 kg / km	15.43 lbs 6.99 kg

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		≦1260nm
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)
Dynamic Fatigue Constant (Nd)	>30
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 Type OFNR, CSA FT4, IECA S-83-596 & OFNP, CSA FT6, or LSZH-non ETL/ IECA S-104-696. GR-409
RoHS Compliant Directive 2011/65/EU

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