

9/125 SSF™ Single Mode OS2 6 - 144 Strand Aluminum Interlocking Armored, Riser/Plenum

Type: OS2, OFCR, FT4 / OFCP, FT6 Indoor Only



Cleerline SSF™ Micro Distribution Aluminum Interlocking Armored cable consists of either a Riser or Plenum overall jacket with 6-144 fibers and water blocking yarns. All Aluminum Interlocking Armored is indoor rated.

SSF™ Aluminum Interlocking Armored includes a spirally wrapped internal aluminum strip which provides high crush resistance and protection from rugged environments.

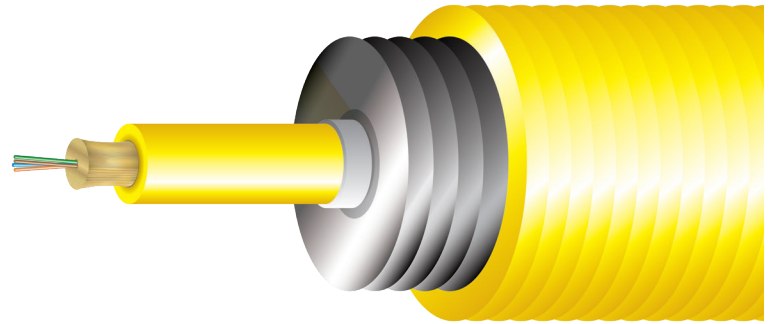
Cleerline SSF™ Single Mode is fully compatible with all common connector systems for standard 9/125 Single Mode fiber.

FEATURES AND BENEFITS

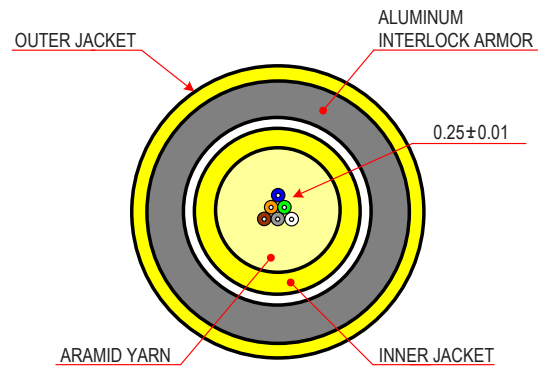
- High mechanical strength, superior fatigue (nD = 30)
- Compatible with common connector systems for 9/125 Single Mode
- Up to 10,000x the bend longevity of traditional fiber
- Integral SSF™ coating provides glass protection
- Increased safety due to incredible bend insensitivity
- Exclusive 250 µm Soft Peel acrylate

APPLICATIONS

- Rugged environments- spirally-wrapped aluminum strip also prevents rodent incursion
- Installation without additional inner duct/conduit
- Indoor installations



3D VIEW



TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	TYPE RISER/PLENUM	O.D.	WEIGHT (LB / 1000 FT)	BEND RADIUS
6IAD9125SMOS2X	6 Fibers	6 Strand 9/125 - 1000 ft Spool	X= R/P	11.6 mm	75.6	23.2 cm
6IAD9125SMOS2X-B	6 Fibers	6 Strand 9/125 - Cut to Order	X= R/P	11.6 mm	75.6	23.2 cm
12IAD9125SMOS2X	12 Fibers	12 Strand 9/125 - 1000 ft Spool	X= R/P	11.6 mm	75.6	23.2 cm
12IAD9125SMOS2X-B	12 Fibers	12 Strand 9/125 - Cut to Order	X= R/P	11.6 mm	75.6	23.2 cm
24IAD9125SMOS2X	24 Fibers	24 Strand 9/125 - 1000 ft Spool	X= R/P	16.2 mm	104.7	26.0 cm
24IAD9125SMOS2X-B	24 Fibers	24 Strand 9/125 - Cut to Order	X= R/P	16.2 mm	104.7	26.0 cm
48IAD9125SMOS2X	48 Fibers	48 Strand 9/125 - 1000 ft Spool	X= R/P	17.45 mm	159	34.9 cm
48IAD9125SMOS2X-B	48 Fibers	48 Strand 9/125 - Cut to Order	X= R/P	17.45 mm	159	34.9 cm
72IAD9125SMOS2X	72 Fibers	72 Strand 9/125 - 1000 ft Spool	X= R/P	19.25 mm	201.6	38.5 cm
72IAD9125SMOS2X-B	72 Fibers	72 Strand 9/125 - Cut to Order	X= R/P	19.25 mm	201.6	38.5 cm
96IAD9125SMOS2X	96 Fibers	96 Strand 9/125 - 1000 ft Spool	X= R/P	17.25 mm	220	34.5 cm
96IAD9125SMOS2BX-B	96 Fibers	96 Strand 9/125 - Cut to Order	X= R/P	17.25 mm	220	34.5 cm
144IAD9125SMOS2P-2	144 Fibers	144 Strand 9/125 - 1000 ft Spool	Plenum	19.28 mm	236	38.6 cm
144IAD9125SMOS2P-2-B	144 Fibers	144 Strand 9/125 - Cut to Order	Plenum	19.28 mm	236	38.6 cm

CONSTRUCTION

FIBER	
Fibers	6, 12, 24, 48, 72, 96, 144
Type	9/125 Single Mode OS2
Coating	250 µm "Soft Peel" S-Type Coating
Color Coding	Per TIA/EIA 598C

JACKET	
Type	Riser Rated PVC (Indoor) Plenum Rated PVC (Indoor)
Color	Yellow (custom colors also available)
Outer Diameter	Varies by Part Number
Markings	Sequential Foot Markings
Strength Member	Kevlar (Plenum + water blocking yarns)

PHYSICAL DATA	
Storage Temperature Range	-40°C to +70°C
Operating Temperature Range	-20°C to +70°C
Max Tensile Load (Installation)	800 N (180 lbf)
Max Tensile Load Long Term	600 N (135 lbf)
Allowable Bend Radius	Dynamic 20D
Cable Package	1000 ft reel or customer request, spooled
Rating	FT4 - Riser / FT6 - Plenum

FIBER OPTIC CHARACTERISTICS		
Max. Attenuation Loss (dB/km)	1260 nm	≤ 0.45 dB
	1310 nm	≤ 0.40 dB
	1383	≤ 0.35 dB
	1550 nm	≤ 0.30 dB (Typ. 0.25)
	1625 nm	≤ 0.35 dB
Macro Bending Loss, 1550 nm	10 bending turns around 15 mm diameter	0.03 dB
	1 bending turn around 10 mm diameter	0.1 dB
	1 bending turns around 7.5 mm diameter	0.5 dB
Macro Bending Loss, 1625 nm	10 bending turns around 15 mm diameter	0.1 dB
	1 bending turn around 10 mm diameter	0.2 dB
	1 bending turns around 7.5 mm diameter	1.0 dB

FIBER PERFORMANCE SUMMARY		
Item	Standard Compliance & Condition	Δ Loss
High Humidity Aging	IEC 60793-1-50, 85°C/85% RH, 30 days	< 0.05 dB/km
Thermal Aging	IEC 60793-1-51 85°C, 30 days	< 0.05 dB/km
Temperature Cycling	IEC 60793-1-52 10° ~ 85°C, 21 cycles	< 0.05 dB/km
Water Soak	IEC 60793-1-53 23°, 30 days	< 0.05 dB/km
Hydrogen Aging	IEC 60793-2-50 23°C, Hydrogen loading 0.01 atm	< 0.40 dB/km

CABLE PERFORMANCE SUMMARY		
Item	Standard Compliance & Condition	Δ Loss
Tensile Test	TIA/EIA-455-33A 100 kg tensile loading, 10 min.	< 0.2 dB/km
Repeat Bending	TIA/EIA-455-104A Bending Dia. 60 mm, 25 times	<0.2 dB/km
Impact Test	TIA/EIA-455-25B 1 kgf, 20 times	< 0.2 dB/km
Twist Test	TIA/EIA-455-85A 1 m, 10 times	<0.2 dB/km
Crush Test	TIA/EIA-455-41A 1 kgf/mm, 10 minutes	<0.2 dB/km
Water Penetration	TIA/EIA-455-82B 1 m static water pressure, 3 m sample for 4 hours	No leakage
Temperature Cycling	TIA/EIA-455-3A -40°C ~ 70°C	<0.2 dB/km
Flammability	IEEE 383-1974	Flame propagation < 1.8 m

COMPLIANCE	
UL Listed Type OFCR, CSA FT4, IECA S-83-596 & OFCP, CSA FT6. GR-409 SSF™ complies with or exceeds the ITU-T recommendations G.657.A2, G.657.B2, G.652.D, and the IEC International Standard 60793-2-50 type B.1.3 and B.6.A&B Optical Fiber	