

9/125 SSF™ Single Mode OS2 2 - 72 Strand Aluminum Interlocking Armored, Riser/Plenum

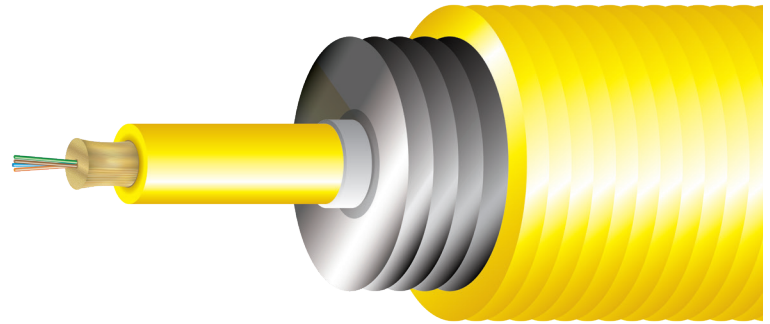
Type: OS2, OFCR, FT4 / OFCP, FT6 Indoor Only



Cleerline SSF™ micro distribution Aluminum Interlocking Armored cable consists of either a Riser or Plenum overall jacket with 2-72 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.



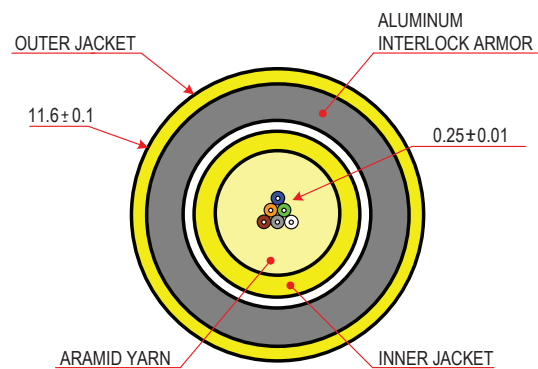
3D VIEW

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



TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	TYPE RISER/PLENUM	O.D.	WEIGHT (LB / 1000 FT)	BEND RADIUS
2IAD9125SMOS2X	2 Fibers	2 Strand 9/125 - 1000 ft Spool	X= R/P	11.6 mm	75.6	23.2 cm
2IAD9125SMOS2X-B	2 Fibers	2 Strand 9/125 - Cut to Order	X= R/P	11.6 mm	75.6	23.2 cm
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

CONSTRUCTION

FIBER	
Fibers	2, 6, 12, 24, 48, 72
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
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	