

# 50/125 SSF™ Multimode OM3 2 - 72 Strand Aluminum Interlocking Armored, Riser/Plenum

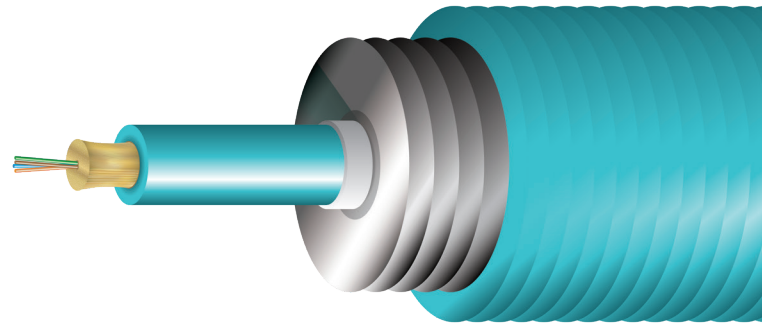
Type: OM3, OFCR, FT4 / OFCP, FT6 Indoor Only



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™ multimode is fully compatible with all common connector systems for standard 50/125 multimode fiber.



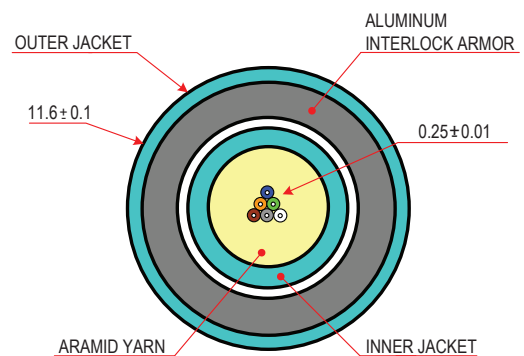
3D VIEW

## FEATURES AND BENEFITS

- High mechanical strength, superior fatigue (nD = 30)
- Compatible with common connector systems for 50/125 multimode
- 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
2IAD50125MOM3X	2 Fibers	2 Strand 50/125 - 1000 ft Spool	X= R/P	11.6 mm	75.6	23.2 cm
2IAD50125MOM3X-B	2 Fibers	2 Strand 50/125 - Cut to Order	X= R/P	11.6 mm	75.6	23.2 cm
6IAD50125MOM3X	6 Fibers	6 Strand 50/125 - 1000 ft Spool	X= R/P	11.6 mm	75.6	23.2 cm
6IAD50125MOM3X-B	6 Fibers	6 Strand 50/125 - Cut to Order	X= R/P	11.6 mm	75.6	23.2 cm
12IAD50125MOM3X	12 Fibers	12 Strand 50/125 - 1000 ft Spool	X= R/P	11.6 mm	75.6	23.2 cm
12IAD50125MOM3X-B	12 Fibers	12 Strand 50/125 - Cut to Order	X= R/P	11.6 mm	75.6	23.2 cm
24IAD50125MOM3X	24 Fibers	24 Strand 50/125 - 1000 ft Spool	X= R/P	16.2 mm	104.7	26.0 cm
24IAD50125MOM3X-B	24 Fibers	24 Strand 50/125 - Cut to Order	X= R/P	16.2 mm	104.7	26.0 cm
48IAD50125MOM3X	48 Fibers	48 Strand 50/125 - 1000 ft Spool	X= R/P	17.45 mm	159	34.9 cm
48IAD50125MOM3X-B	48 Fibers	48 Strand 50/125 - Cut to Order	X= R/P	17.45 mm	159	34.9 cm
72IAD50125MOM3X	72 Fibers	72 Strand 50/125 - 1000 ft Spool	X= R/P	19.25 mm	201.6	38.5 cm
72IAD50125MOM3X-B	72 Fibers	72 Strand 50/125 - Cut to Order	X= R/P	19.25 mm	201.6	38.5 cm

## CONSTRUCTION

FIBER	
Fibers	2, 6, 12, 24, 48, 72
Type	50/125 Multimode OM3
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	Aqua
Outer Diameter	Varies by part number
Subunit Diameter	3.0 mm Loose Tube
Markings	Sequential Foot Markings
Strength Member	Kevlar + 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	20 X O.D.
Cable Outside Diameter, Nominal	Varies by part number
Cable Package	1000 ft reel or customer request, spooled
Rating	FT4 - Riser / FT6 - Plenum

FIBER OPTIC CHARACTERISTICS		
Max. Attenuation Loss (dB/km)	850 ± 20 nm	< 3.5 dB (Typ. 3.0)
	1300 ± 20 nm	< 1.0 dB (Typ. 0.8)
Macro Bending Loss, 850 nm and 1300 nm	2 bending turns around 15 mm radius	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	< 0.2 dB/km
Thermal Aging	IEC 60793-1-51 85°C, 30 days	< 0.2 dB/km
Temperature Cycling	IEC 60793-1-52 10° ~ 85°C, 21 cycles	< 0.2 dB/km
Water Soak	IEC 60793-1-53 23°, 30 days	< 0.2 dB/km
Hydrogen Aging	IEC 60793-2-50 23°C, Hydrogen loading 0.01 atm	NA

CABLE PERFORMANCE SUMMARY		
Item	Standard Compliance & Condition	Δ Loss
Cyclic Flexing Test	TIA/EIA-455-104A Sheave diameter: 20D (D = cable dia.)	< 0.3 dB/km
	Flexing angle ±90°/cycle	
	Flexing speed: 30 cycle/min	
	Flexing cycles: 2000 Cycle load: 5 kg	
Impact Test	TIA/EIA-455-25B	< 0.3 dB/km
	Flexing Cycles: 1500 Flexing speed: 30 ± 1 cycle/min.	
Compressive Loading Resistance Test	TIA/EIA 455-41A 220 kgf/mm for 10 min.	< 0.3 dB/km

COMPLIANCE	
UL Listed Type OFCR, CSA FT4, IECA S-83-596 & OFCP, CSA FT6. GR-409 SSF™ conforms to the requirement of IEC 60793 A1a, ISO/IEC 11801 & ITU-T G.651.1 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications.	