

COMPONENT SPECIFICATIONS

2-72 SSF™ Multimode OM4 (AIA) Aluminum Interlocking Armored, Riser / Plenum Cables



Type OM4, OFNR, CSA FT4 / OFNP, CSA FT6

Cleerline SSF™ advanced optical glass fibers are much stronger, safer, and faster terminating than typical fibers. This distribution style cable provides the ultimate in durability and bend in a very compact size. 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

CONSTRUCTION

FIBER

Fiber Count = 2-72
 50/125 Multimode Dry w/super-absorbant polymer
 250um "Soft Peel" S-Type coating
 Color Coding per TIA/EIA 568C

JACKET

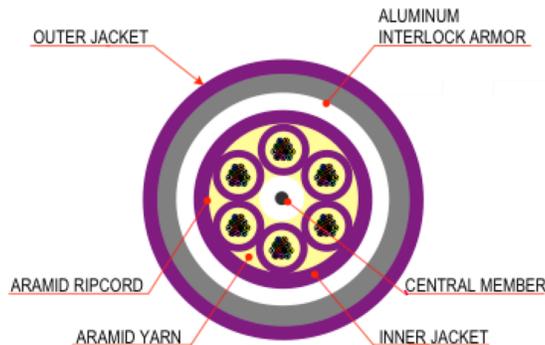
Riser Rated PVC / Plenum Rated PVC
 Jacket diameter 11.6 mm to 19.25mm
 Violet jacket = OM4 (or colored to Customer request)
 Sequential footage markings
 Aramid Yarns = Kevlar + Water Block

PHYSICAL DATA

Storage Temperature Range	= -40°C to +70°C
Operating Temperature Range	= -20°C to +70°C
Max Tensile Load for Installation	= 800 (180) N (lbf)
Max Tensile Long Load term	= 600 (135) N (lbf)
Allowable Bend Radius	= Dynamic 20D
Cable Package	= Spool

Typical Cross Section

Part: 72IADSMOM4R



PRODUCT DETAIL

Cleerline SSF™ fiber, micro distribution aluminum Interlocking armored cable consists of either a Riser or Plenum overall jacket with 2-72 fibers and water blocking kevlar yarns. The core is protected by a spirally-wrapped aluminum strip that offers easy installation and high crush resistance. The cable is designed to withstand rugged environments, is rodent resistant, and withstands abuse while protecting the encased fibers. This product eliminates the need for inner duct or conduit thus saving installation time.

SSF™ conforms to the requirement of IEC 60793-2-10 A1a.3, ISO/IEC 11801 & ITU-T G.651.1. 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s & above applications

CABLE CHARACTERISTICS	
Fiber Count	2-12 / 24, 36 / 48 / 72
Cable Outer Diameter, Nom. (2-12 / 24, 36 / 48/ 72)	11.6 / 13.0 / 17.45 / 19.25
Sub Unit/s	3.0mm Loose Tube
Bend Radius (2-12 / 24, 36 / 48/ 72)	23.2 / 26.0 / 34.9 / 38.5
Water Mitigation	Kevlar + Water Block
Weight (2-12 / 24, 36 / 48/ 72)	252 / 349 / 433 / 530 / 672 lbs/km

Fiber Optics Characteristics:

MMF	Wavelength (nm)		850 ± 20	1300 ± 20
	Max. Attenuations Loss (dB/km)		< 3.5 (Typ. 3.0)	< 1.0 (Typ. 0.8)
	Macro Bending Loss	Radius	15mm	
		Bending Turns	2	
		Max. Bending Loss@850nm(dB)	1	
Max. Bending Loss@1300nm(dB)		1		

Fiber/Cable Performance Summary:

Type	Item	Standards Compliance & Condition	MM(ΔLoss)
Fiber	High Humidity Aging	IEC 60793-1-50, 85°C/85%RH 30days	<0.2dB/km
	Thermal Aging	IEC 60793-1-51, 85°C 30days	<0.2dB/km
	Temperature Cycling	IEC 60793-1-52, -10°C~85°C, 21 cycles	<0.2dB/km
	Water soak	IEC 60793-1-53, 23°C/soak into water, 30days	<0.2dB/km
	Hydrogen Aging	IEC 60793-2-50, 23°C/ Hydrogen loading 0.01 atm	NA
Cable	Cyclic Flexing Test	TIA/EIA-455-104A, Sheave diameter:20D (D=cable diameter) Flexing angel:±90° /cycles Flexing speed:30 cycles/min No. of flexing cycles:2000 cycles Load: 5 kg	<0.3dB/km
	Impact Test	TIA/EIA-455-25B, No. of flexing cycles: 1500 cycles Flexing speed:30±1 cycles/min.	<0.3dB/km
	Compressive Loading Resistance Test	TIA/EIA-455-41A, 220kgf/mm for 10 minutes	<0.3dB/km

PART NUMBERs – OS2 SSF™ FIBERS

Fiber Count	Riser	Plenum
## (2-12)	##IAD50125MOM4R	##IAD50125MOM4P
24	24IAD50125MOM4R	24IAD50125MOM4P
36	36IAD50125MOM4R	36IAD50125MOM4P
48	48IAD50125MOM4R	48IAD50125MOM4P
72	72IAD50125MOM4R	72IAD50125MOM4P