6-12 Strand SSF™ Armored Direct Burial

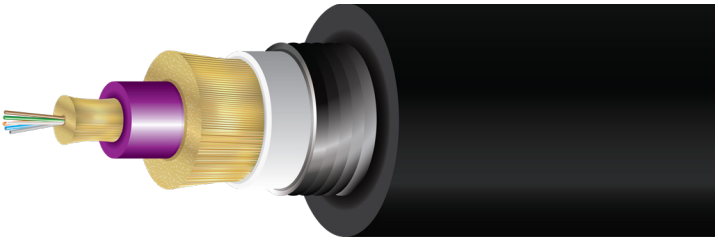
Micro-Distribution LT, PE/OSP/Burial, 50/125, OM4

Cleerline SSF™ Armored Corrugated Steel Micro Distribution cable consists of a PE overall jacket with 6 or 12 fibers and water-blocking Aramid yarns.

The core is protected by a corrugated armored steel tube that offers easy installation and high crush resistance. A polyethylene, UV-resistant jacket protects the cable, allowing direct burial.

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

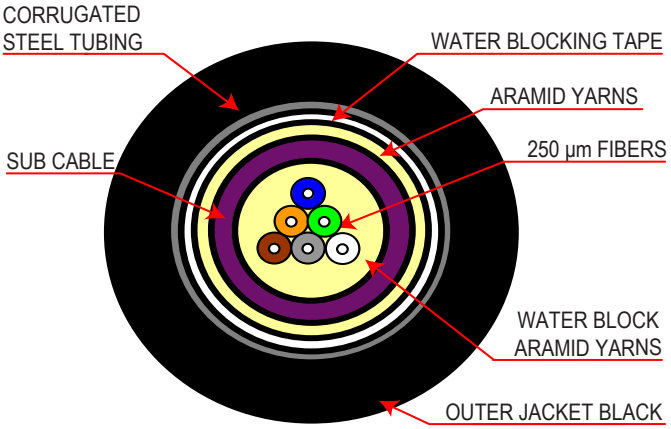
This product offers bend performance beyond EIA SP-2840A, as well as superior crush resistance and superior pull.



3D VIEW

FEATURES AND BENEFITS

- High mechanical strength, superior fatigue
- Compatible with common connector systems for 50/125 Multimode
- Integral SSF™ coating provides glass protection
- Exclusive 250 µm Soft Peel acrylate
- High crush resistance
- Cable built to withstand rugged environments



TYPICAL CROSS SECTION

APPLICATIONS

- Outdoor direct burial
- Installations requiring high crush resistance

PART NUMBER	FIBERS	DESCRIPTION	JACKET RATING	O.D.	WEIGHT (LB / 1000 FT)
6ACS50125OM4PE	6 Fibers	6 Strand Direct Burial 50/125 SSF - 1000 ft Spool	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
6ACS50125OM4PE-B	6 Fibers	6 Strand Direct Burial 50/125 SSF - Cut to Order	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
12ACS50125OM4PE	12 Fibers	12 Strand Direct Burial 50/125 SSF - 1000 ft Spool	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
12ACS50125OM4PE-B	12 Fibers	12 Strand Direct Burial 50/125 SSF - Cut to Order	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)

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CONSTRUCTION

FIBER	
Fibers	6, 12
Type	50/125 Multimode OM4
Coating	250 µm "Soft Peel" S-Type Coating
Color Coding	Per TIA/EIA 598C

JACKET	
Type	PE-UV, moisture resistant (Outdoor)
Color	Black
Outer Diameter	9.0 mm
Markings	Sequential Foot Markings
Strength Member	Aramid + water blocking yarns

PHYSICAL DATA	
Storage Temperature Range	-50°C to +70°C
Operating Temperature Range	-40°C to +70°C
Max Tensile Load (Installation)	607 lbf / 275 kgf (2700N)
Max Tensile Load Long Term	200 lbf / 90 kgf (890N)
Allowable Bend Radius	Loaded 20 x O.D.
	Unloaded 15 x O.D.
Subunit Diameter	3.0 mm Loose Tube
Cable Outside Diameter, Nominal	9.0 mm
Construction	Loose Tube, Corrugated Steel Tube
Cable Package	1000 ft Reel or customer request, spooled
Crush Resistance (N/100 mm)	674 lbf / 305 kgf (3000N)

FIBER OPTIC CHARACTERISTICS		
Max. Attenuation	850 ± 20 nm	≤ 3.5 dB/km
	1300 ± 20 nm	≤ 1 dB/km
Bend Induced Attenuation, 850 nm	2 turns, 15 mm radius	≤ 0.2 dB
	2 turns, 15 mm radius	≤ 0.5 dB

FIBER PERFORMANCE - ATTENUATION UNDER TEST		
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°C - 85°C, 21 cycles	< 0.2 dB/km
Water Soak	IEC 60793-1-53, 23°C/soak in water, 30 days	< 0.2 dB/km
Hydrogen Aging	IEC 60793-2-50, 23°C/Hydrogen loading 0.01 atm	N/A

CABLE PERFORMANCE - ATTENUATION UNDER TEST		
Item	Standard Compliance & Condition	Δ Loss
Cyclic Flexing Test	TIA/EIA-455-104A Sheave diameter: 20D Flexing Angle: ± 90° Flexing speed: 30 cycles/min Flexing Cycles: 2000 Load: 5 kg	< 0.30 dB/km
Impact Test	TIA/EIA-455-25B Flexing cycle: 1500 Flexing speed: 30 ± 1 cycles/min	< 0.30dB/km
Compressive Loading Resistance Test	TIA/EIA-455-41A 220 kgf/mm, 10 min	<0.30 dB/km

COMPLIANCE

SSF™ conforms to the requirement of IEC 60793-2-10 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.