

50/125 SSF™ Multimode OM4 Micro Distribution Armored Corrugated Steel PE Jacketed Cable

Type: OM4, PE Jacket

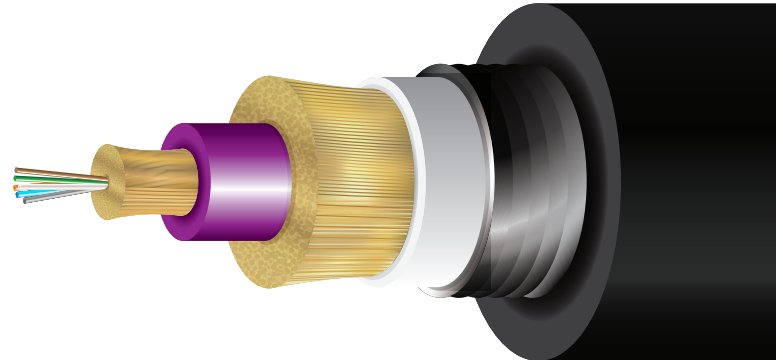


Cleerline SSF™ Armored Corrugated Steel Distribution cable consists of a PE overall jacket with 6 or 12 fibers and water-blocking Kevlar yarns.

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, superior crush resistance, and superior pull.



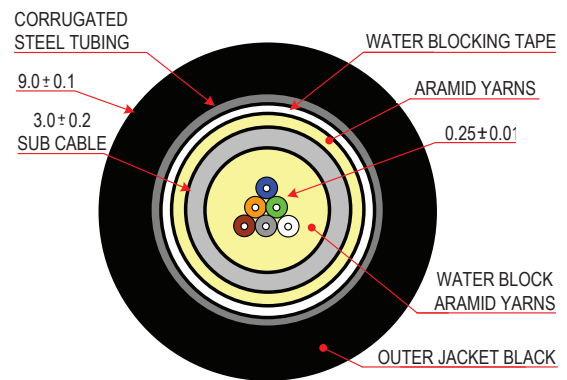
3D VIEW

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

APPLICATIONS

- Outdoor direct burial
- Installations requiring high crush resistance



TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	TYPE	O.D.	WEIGHT (LB / 1000 FT)
6ACS501250M4PE	6 Fibers	6 Strand Direct Burial - 1000 ft Spool	PE-UV	9.0 mm	62
6ACS501250M4PE-B	6 Fibers	6 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62
12ACS501250M4PE	12 Fibers	12 Strand Direct Burial - 1000 ft Spool	PE-UV	9.0 mm	62
12ACS501250M4PE-B	12 Fibers	12 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62

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	Kevlar + water blocking yarns

PHYSICAL DATA	
Storage Temperature Range	-30°C to +60°C
Operating Temperature Range	-20°C to +75°C
Max Tensile Load (Installation)	2000 N (450 lbf)
Max Tensile Load Long Term	600 N (135 lbf)
Allowable Bend Radius	Dynamic 20D
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)	3000 N

FIBER OPTIC CHARACTERISTICS		
Max. Attenuation	850 ± 20 nm	≤ 3.5 dB / km
	1300 ± 20 nm	≤ 1.0 dB / km
	1383 nm	≤ 0.35 dB / km
	1550 nm	≤ 0.3 dB / km
	1625 nm	≤ 0.35 dB / km
Macro Bending Loss - 850 nm	2 turns, 15 mm radius	1 dB
Macro Bending Loss - 1300 nm	2 turns, 15 mm radius	1 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.