

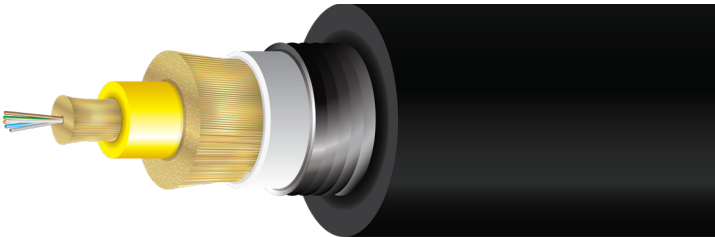
Micro-Distribution LT, PE/OSP/Burial, 9/125, G657 A2/B2 OS2

Cleerline SSF™ Armored Corrugated Steel Micro Distribution cable consists of a PE overall jacket with 2, 6, 12, or 24 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 single-mode is fully compatible with all common connector systems for standard 9/125 single-mode fiber.

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



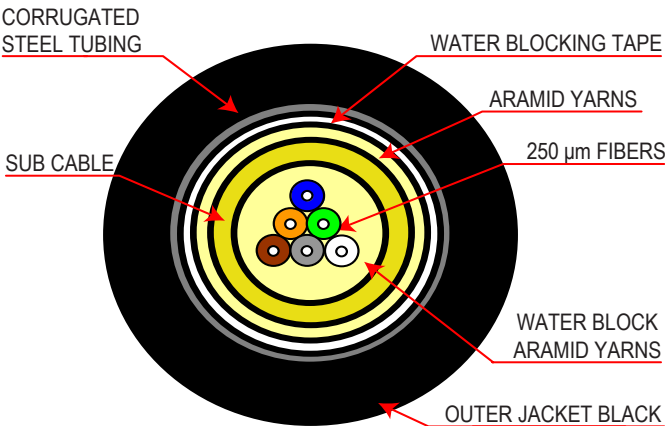
3D VIEW

FEATURES AND BENEFITS

- High mechanical strength, superior fatigue
- Compatible with common connector systems for 9/125 Single-mode
- 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)
2ACS91250S2PE	2 Fibers	2 Strand Direct Burial - 1000 ft Spool	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
2ACS91250S2PE-B	2 Fibers	2 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
6ACS91250S2PE	6 Fibers	6 Strand Direct Burial - 1000 ft Spool	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
6ACS91250S2PE-B	6 Fibers	6 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
12ACS91250S2PE	12 Fibers	12 Strand Direct Burial - 1000 ft Spool	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
12ACS91250S2PE-B	12 Fibers	12 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
24ACS91250S2PE	24 Fibers	24 Strand Direct Burial - 1000 ft Spool	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)
24ACS91250S2PE-B	24 Fibers	24 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62 (0.58/ft + Reel wt.)

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CONSTRUCTION

FIBER	
Fibers	2, 6, 12, 24
Type	9/125 Single-mode OS2
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		
Attenuation Coefficient	1310 nm	≤ 0.35 dB / km
	1385 nm	≤ 0.31 dB / km
	1550 nm	≤ 0.21 dB / km
	1625 nm	≤ 0.23 dB / km
Bend Induced Attenuation, 1550 nm	1 turn around a 7.5 mm radius mandrel	Typical = 0.15dB ITU-T G657 ≤ 0.5 dB
	1 turn around a 7.5 mm radius mandrel	Typical = 0.35 ITU-T G657 ≤ 1.0 dB

FIBER PERFORMANCE		
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°C - 85°C, 21 cycles	< 0.05 dB/km
Water Soak	IEC 60793-1-53, 23°C/soak in water, 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		
Item	Standard Compliance & Condition	Δ Loss
Tensile Test	TIA/EIA-455-33A 100 kg tensile load, 10 minutes	< 0.20 dB/km
Repeat Bending	TIA/EIA-455-104A 25 times around 60 mm bending diameter	< 0.20dB/km
Impact Test	TIA/EIA-455-25B, 1 kgf, 20 times	<0.20 dB/km
Twist Test	TIA/EIA-455-85A 1 m, 10 times	0.20 dB/km
Crush Test	TIA/EIA-455-41A 1 kgf, 10 minutes	< 0.20 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	<0.20 dB/km
Flammability	IEEE 383-1974 Flame propagation < 1.8 m	

COMPLIANCE	
SSF™ complies with or exceed the ITU-T recommendations G.657 A2, G.657 B2, and G.652 D, and the IEC International Standard 60793-2-50 type B1.3 and B.6 A&B Optical Fiber	