9/125 SSF™ Single Mode OS2 Micro Distribution
Armored Corrugated Steel PE Jacketed Cable

Type: OS2, Product Type G.657.A2, G.657.B2, G.652.D

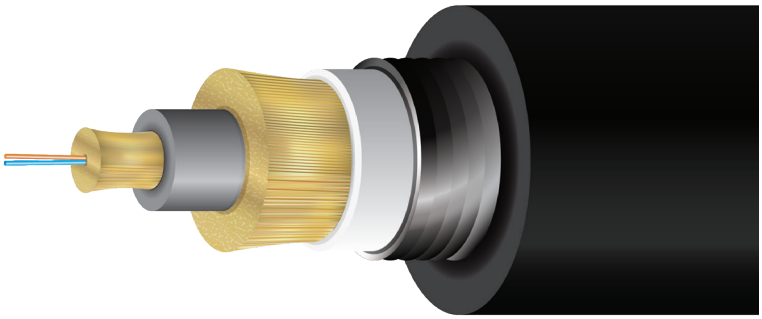
CLEERLINE SSF™

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

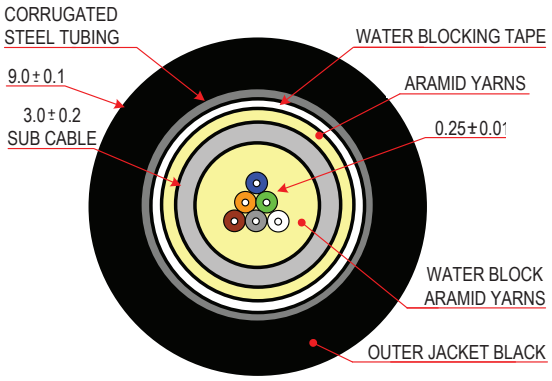
This product offers bend performance beyond EIA SP-2840A, superior crush resistance, and superior pull.



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



TYPICAL CROSS SECTION

APPLICATIONS

- Outdoor direct burial
- Installations requiring high crush resistance

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
2ACS91250S2PE-B	2 Fibers	2 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62
6ACS91250S2PE	6 Fibers	6 Strand Direct Burial - 1000 ft Spool	PE-UV	9.0 mm	62
6ACS91250S2PE-B	6 Fibers	6 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62
12ACS91250S2PE	12 Fibers	12 Strand Direct Burial - 1000 ft Spool	PE-UV	9.0 mm	62
12ACS91250S2PE-B	12 Fibers	12 Strand Direct Burial - Cut to Order	PE-UV	9.0 mm	62

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Date: 8/22/2018 Rev. 1.6

CONSTRUCTION

FIBER	
Fibers	2, 6, 12
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	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	1260 nm	≤ 0.45 dB / km
	1310 nm	≤ 0.40 dB / km
	1383 nm	≤ 0.35 dB / km
	1550 nm	≤ 0.3 dB / km
	1625 nm	≤ 0.35 dB / km
Macro Bending Loss - 1550 nm	10 turns, 15 mm bending diameter	0.03 dB
	1 turn, 10 mm bending diameter	0.1 dB
	1 turn, 7.5 mm bending diameter	0.5 dB
Macro Bending Loss - 1625 nm	10 turns, 15 mm bending diameter	0.1 dB
	1 turn, 10 mm bending diameter	0.2 dB
	1 turn, 7.5 mm bending diameter	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

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