9/125 SSF[™] Single Mode OS2 Breakout Tactical Outdoor Cable with 2.0 mm Subunits

Type: OS2, PU Jacket



Cleerline SSF[™] Tactical Breakout cable is composed of an overall jacket with 2.0 mm subunits.

SSF[™] Tactical cable is designed for installations where cable may need to be removed or changed, such as rental or staging applications. Tactical PU jacketing provides increased durability, UV and chemical resistance, and extreme flexibility. This cable is outdoor rated.

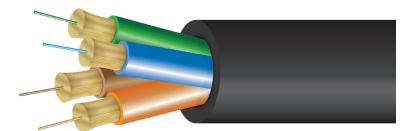
The included SSF[™] fibers feature patented SSF[™] polymer coating for extreme durability and ease of installation. Flex tested to 2000 cycles, impact to 1500 cycles, and crush resistance to 100 kgf / mm.

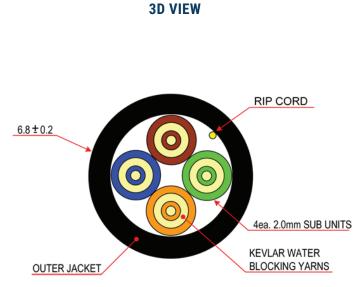
FEATURES AND BENEFITS

- All dielectric construction no grounding / bonding required
- High mechanical strength, superior fatigue (nD = 30)
- Compatible with common connector systems for 9/125 single mode fibers
- Up to 10,000x the bend longevity of traditional fiber
- Integral SSF[™] coating provides glass protection
- Increased safety due to incredible bend insensitivity
- Exclusive 250 µm Soft Peel acrylate

APPLICATIONS

- Installations requiring portability cable can be retracted onto a reel
- Harsh environments: temporary or permanent industrial, broadcast, or abrasive/chemical environments
- High crush environments





TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	ТҮРЕ	0.D.	WEIGHT (LB / 1000 FT)	MIN. BEND RADIUS, INSTALLATION	MIN. BEND RADIUS, OPERATION
2TB91250S2PU	2 Fibers	2 Strand - 1000 ft Spool	Tactical PU	7.1 mm	49.5	11.5 cm	5.0 cm
2TB91250S2PU-B	2 Fibers	2 Strand - Cut to Order	Tactical PU	7.1 mm	49.5	11.5 cm	5.0 cm
4TB91250S2PU	4 Fibers	4 Strand - 1000 ft Spool	Tactical PU	7.1 mm	61.5	12.37 cm	6.8 cm
4TB91250S2PU-B	4 Fibers	4 Strand - Cut to Order	Tactical PU	7.1 mm	61.5	12.37 cm	6.8 cm

CLEERLINE TECHNOLOGY GROUP, LLC

Date: 3/31/2022 Rev. 2.1

8404 El Way Drive #2B, Missoula, MT 59808 USA & CAN: 866-469-2487 Fax 406-532-0060 Int'l +1 406-541-9830 Int'l Fax 1-406-532-0060 Web: www.cleerlinefiber.com Copyright 2012 Cleerline Technology Group, LLC. All rights reserved. Subject to change without notice.



CONSTRUCTION

FIBER	
Fibers	2, 4
Туре	9/125 Single Mode
Coating	250 μm "Soft Peel" S-Type Coating
Color Coding	Per TIA/EIA 598C

JACKET			
Туре	Tactical Polyurethane (PU), Outdoor		
Color	Black		
Outer Diameter	Varies by part number		
Subunits	2.0 mm Flame Retardant PVC		
Markings	Sequential Foot Markings		
Strength Member	Kevlar + water blocking yarns		

PHYSICAL DATA		
Storage Temperature Range	-40°C to +80°C	
Operating Temperature Range	-20°C to +75°C	
Max Tensile Load (Installation)	1000 N (225 lbf)	
Max Tensile Load Long Term	500 N (112 lbf)	
Subunit Min. Bend Radius, Unloaded	1 x O.D.	
Cable Outside Diameter, Nominal	Varies by part number	
Min. Bend Radius, Installation	Varies by part number	
Min. Bend Radius, Operation	Varies by part number	
Cable Package	1000 ft Reel or customer request, spooled	
Rating	Outdoor	
Crush Resistance (TIA/EIA 455-41A)	100 kgf / mm	
Impact Resistance (TIA/EIA 455-25B)	1500 impact cycles	
Flexing @ 90 degrees (TIA/EIA 455-104A)	2000 flexing cycles	

ENVIRONMENTAL CHARACTERIST	ICS (SSE™ EIDED)
Temperature Dependence, 1310 nm and 1550 nm Induced Attenuation -60°C to + 85°C	≤ 0.5 dB / km
Watersoak Dependence, 1310 nm and 1550 nm Induced Attenuation at 20°C for 30 days	≤ 0.5 dB / km
Damp Heat Dependence, 1310 nm and 1550 nm Induced Attenuation at 85°C, 85% R.H., 30 days	≤ 0.5 dB / km

PHYSICAL CHARACTER	ISTICS (SSF™ FIBER)		
Core / Hybrid Cladding Concentricity Error	≤0.5 µm		
Hybrid Cladding Diameter	125 ± 0.7 µm		
Hybrid Cladding Non- Circularity	≤ 1.0%		
Soft Peel Jacket Identifier	245 ± 10 μm		
Coating Strip Force	≤ 100 g		
Fiber Curl	≥ 2 m		
Proof Test	0.69 Gpa (100 kpsi)		
Dynamic Fatigue (n _d) 23°C, 41% R.H.	≥ 31.72		
Bend Induced Attenuation,	1 turn around 7.5 mm radius mandrel	≤ 0.5 dB	
1550 nm	10 turns around 15 mm radius mandrel	≤ 0.03 dB	
Bend Induced Attenuation,	1 turn around 7.5 mm radius mandrel	≤ 1.0 dB	
1625 nm	10 turns around 15 mm radius mandrel	≤ 0.1 dB	

OPTICAL CHARACTERISTICS (SSF™ FIBER)				
Attenuation Coefficient	1310 nm	≤ 0.35 dB/km		
Allenuation coefficient	1550 nm	≤ 0.21 dB/km		
Mode Field Diameter	1310 nm	8.6 ± 0.4 μm		
Mode Field Diameter	1550 nm	9.7 ± 0.5 μm		
Cable Cut-off Wavelength	≤ 1260 nm			
Zero Dispersion Wavelength	1300 nm - 1324 nm			
Zero Dispersion Slope	0.092 ps / (nm ² · km)			

BACKSCATTER CHAR	ACTERISTIC	S (SSF™ FIBER)	
Attenuation Directional Uniformity	≤ 0.03 dB/km		
Attenuation Uniformity	≤ 0.05 dB		
Group Index of	1310 nm	1.467	
Refraction	1550 nm	1.468	

COMPLIANCE

IECA S-104-696. RoHS Compliant Directive 2011/65/EU SSF[™] complies to or exceeds the ITU-T recommendations G.657 A2, G.657 B2, and G.652 D, the IEC International Standard 60793-2-50 type B.1.3 and B.6.A&B Optical Fiber Specification.



CLEERLINE TECHNOLOGY GROUP, LLC

Web: www.cleerlinefiber.com

Copyright 2012 Cleerline Technology Group, LLC.

8404 El Way Drive #2B, Missoula, MT 59808 USA & CAN: 866-469-2487 Fax 406-532-0060 Int'l +1 406-541-9830 Int'l Fax 1-406-532-0060 All rights reserved. Subject to change without notice.

Date: 3/31/2022 Rev. 2.1