9/125 SSF[™] Single Mode + 18-2 AWG Copper Fiber + Power - Plenum Rated

Type: OS2, OFNP FT6, CMP



Easily transmit both data and power with Cleerline SSF[™] Fiber + Power cable. Featuring a two fiber micro distribution single mode OS2 fiber optic cable in zipcord construction with one 2 conductor 18 AWG copper cable. This cable is plenum rated.

SSF[™] Fiber + Power cable simplifies installation by allowing power and fiber optic cables to be installed simultaneously. Ideal for flexibility in installation, this cable is an excellent solution for high-quality data transmission and low voltage communication.

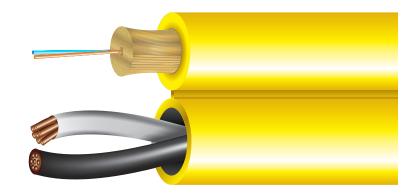
The included SSF[™] fibers feature patented polymer SSF[™] coating for ease of installation and increased strength. The fiber optic cable contains water-blocking aramid yarns.

FEATURES AND BENEFITS

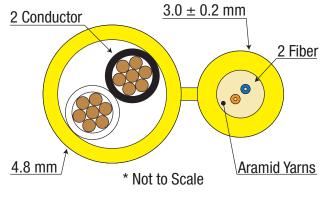
- High mechanical strength
- Superior fatigue and durability (nD = 30)
- Up to 10,000x the bend of traditional fiber
- Integral SSF[™] coating provides glass protection
- Increased safety due to incredible bend insensitivity and durability
- Exclusive 250 µm Soft Peel acrylate

APPLICATIONS

- Voice or data communications & video, flexibility in FTTH applications
- Low voltage communications
- Network and cameras requiring PoE



3D VIEW



TYPICAL CROSS SECTION

PART NUMBER	FIBERS	DESCRIPTION	ТҮРЕ	0.D.	WEIGHT (LB / 1000 FT)
218AWG20S2MDP	2 Fibers	Fiber + Power 0S2 - 1000 ft Spool	Plenum	8.4 mm	28
218AWG20S2MDP-B	2 Fibers	Fiber + Power OS2 - Cut to Order	Plenum	8.4 mm	28

CONSTRUCTION

FIBER		JACKET			
Fiber / Copper Count		Туре	Plenum Ra	Plenum Rated PVC, UV Resistant	
	18-2 AWG Stranded Bare Copper	Color	Yellow, sec	Yellow, sequential footage markings	
Туре	9/125 Single Mode OS2	Outer Diameter	8 4 mm	8.4 mm	
Coating	250 μm "Soft Peel" S-Type Coating	Sub Diameter	Fiber	3.0 mm	
	(1 = Blue, 2 = Orange)	Sub Diameter	LINGI	5.0 11111	
Color Coding	Per TIA/EIA 568		Copper	4.8 mm	

CLEERLINE TECHNOLOGY GROUP, LLC

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PHYSICAL DATA	SICAL DATA
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Storage Temperature Range	-2°C to +60°C	
Operating Temperature Range	-2°C to +60°C	
Max Tensile Load (Installation)	95 N (21 lbf)	
Max Tensile Load Long Term	25 N (5 lbf)	
Min. Bend Radius, Unloaded	10 x 0.D. (10 x 8.4 mm)	
Min. Bend Radius, Loaded	20 x 0.D. (20 x 8.4 mm)	
Cable Outside Diameter, Nominal	8.4 mm	
Cable Package	Cut to order	
Rating	CMP/0FNP/FT6	
0S2 Fibers, 3.0 mm 0.D.		
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	
18-2 AWG Copper		
Suggested Working Voltage	300 Volts, rms.	
Conductor	18 AWG Stranded Bare Copper	
Conductors	2 / C	
Color	Black, Natural	
Shield and Drain	None	

PHYSICAL CHARACTERIST	ICS		
Core Diameter	9.0 ± 2.5 μm		
Core/Hybrid Cladding Concentricity Error	≤ 0.5 µm		
Hybrid Cladding Diameter	125 ± 0.7 μm		
Hybrid Cladding Non- Circularity Error	≤ 1.0 %		
Soft Peel Jacket Identifier Diameter	$250\pm0.7\mu\text{m}$		
Coating Strip Force	≤ 100 g		
Fiber Curl	≥ 2 m		
Proof Test	100 kpsi		
Dynamic Fatigue 23°C, 41% R.H.	> 30 nD		
Bend Induced Attenuation, 1550 nm	1 turn around 10 mm radius	$\leq 0.3 \text{ dB}$	
	10 turns around 15mm radius mandrel	\leq 0.03 dB	
Bend Induced Attenuation, 1625 nm	1 turn around 10 mm radius	\leq 1.0 dB	
	10 turns around 15mm radius mandrel	\leq 0.2 dB	

ENVIRONMENTAL CHARACTERISTICS			
Temperature Dependence, 1310 nm and 1550 nm	\leq 0.05 dB / km		
Induced Attenuation	-40°C to + 85°C		
Watersoak Dependence, 1310 nm and 1550 nm	\leq 0.05 dB / km		
Induced Attenuation at 20°C for 30 days			
Damp Heat Dependence, 1310 nm and 1550 nm	\leq 0.05 dB / km		
Induced Attenuation at 85°C, 85% R.H., 30 days			
Dry Heat Dependence, 1310 nm and 1550 nm	\leq 0.05 dB / km		
Induced Attenuation at 85°C, 30 days			

OPTICAL CHARACTERISTICS			
Attenuation Coefficient	1310 nm	\leq 0.35 dB/km	
	1550 nm	≤ 0.21 dB/km	
Mode Field Diameter	1310 nm	$8.6 \pm 0.4 \ \mu m$	
	1550 nm	$9.7 \pm 0.5 \mu m$	
Cable Cut-off Wavelength	≤ 1260 nm		
Zero Dispersion Wavelength	1310 nm - 1324 nm		
Zero Dispersion Slope	0.092 ps/(nm	² · km)	

BACKSCATTER CHARACTERISTICS			
Attenuation Directional Uniformity	≤ 0.03 dB/km		
Attenuation Uniformity	≤ 0.05 dB/km		
Group Index of Refraction	1310 nm	1.467	
	1550 nm	1.468	

COMPLIANCE

NEC Article 800, C(ETL) US CMP/OFNP FT6

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