

CLEERLINE SSF™ DROP CABLE

4.8 mm Diameter, Riser I/O, Simplex SC APC



Cleerline Simplex Rugged SSF™ drop cables are composed of a SSF™ tight buffered fiber in an overall 4.8 mm Rugged jacket, is Riser rated indoor/outdoor, and incorporates Kevlar Aramid water blocking yarns for strength and protection. SSF™ fiber adds extreme strength and durability at the glass level having up to 10,000x more bend and 2x to 3x times the tensile strength over traditional fibers.

Simplex Rugged SSF™ is ideal for installation both indoor and outdoors being designed for staple attachment, can be placed in ducts or indoors in riser spaces and tray installations.

Cleerline drop cables utilize Senko™ SC APC Premium grade 4.8mm connectors for reliable fiber mating with unparalleled durability.



FEATURES AND BENEFITS

- High mechanical strength, superior fatigue (Nd = 30)
- Compatible with common connector systems for 9/125 single mode
- 900 µm tight buffered SSF™ fiber
- Integral SSF™ coating provides glass protection
- Senko SC APC Premium 4.8 mm connectors
- Exclusive 250 µm Soft Peel acrylate

APPLICATIONS

- ISP delivery applications
- Telecommunications network
- High bandwidth networks
- FTTH (Fiber to the Home)

COMPLIANCE

- ROHS Compliant Directive 2011/65/EU
- UL Listed Type OFNR, CSA FT4, IECA S-83-596
- SSF™ complies or exceeds the ITU-T recommendations G.657 A2, G.657 B2, and G.652 D, the IEC International Standard 60793-50 type B.1.3 and B.6.A&B Optical Fiber Specification

PART NUMBER	OUTER DIAMETER	FIBERS	FIBER TYPE	CONNECTOR	LENGTH (FEET)	JACKET	INSERTION LOSS	RETURN LOSS
SRGDSCSC025ft-APC	4.8 mm	1	SM OS2	SC APC	25	RISER I/O	≤ -0.3 dB	≥ 60 dB
SRGDSCSC050ft-APC	4.8 mm	1	SM OS2	SC APC	50	RISER I/O	≤ -0.3 dB	≥ 60 dB
SRGDSCSC075ft-APC	4.8 mm	1	SM OS2	SC APC	75	RISER I/O	≤ -0.3 dB	≥ 60 dB
SRGDSCSC100ft-APC	4.8 mm	1	SM OS2	SC APC	100	RISER I/O	≤ -0.3 dB	≥ 60 dB
SRGDSCSC125ft-APC	4.8 mm	1	SM OS2	SC APC	125	RISER I/O	≤ -0.3 dB	≥ 60 dB
SRGDSCSC150ft-APC	4.8 mm	1	SM OS2	SC APC	150	RISER I/O	≤ -0.3 dB	≥ 60 dB

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FIBER	
Fibers	1
Type	9/125 Single Mode OS2
Coating	250 µm "Soft Peel" S-Type Coating
Color Coding	Per TIA/EIA 598C

JACKET	
Type	Riser Rated PVC + UV (Indoor/Outdoor)
Color	Black
Outer Diameter	4.8 mm
Markings	Sequential Foot Markings
Strength Member	Kevlar + water blocking yarns

PHYSICAL DATA	
Storage Temperature Range	-40 °C to +70 °C
Operating Temperature Range	-40 °C to +70 °C
Min. Bend Radius, Unloaded	1 x O.D.
Rating	Riser - FT4
Crush/Impact Resistance	≥ 35N/cm

CONNECTORS	
Quantity	2 ea SC APC
Manufacturer	Senko
Type	Premium 4.8 mm
Rating	UL Rate
Mating	IEC61753-1

ENVIRONMENTAL CHARACTERISTICS	
Temperature Dependence at 1310 nm and 1550 nm Induced Attenuation -60 °C to +85 °C	≤ 0.5 dB
Damp Heat Dependence at 1310 nm and 1550 nm Induced Attenuation at 85 °C, 85%RH, 30 days	≤ 0.5 dB
Watersoak Dependence at 1310 nm and 1550 nm Induced Attenuation at 20 °C, 30 days	≤ 0.5 dB

PHYSICAL CHARACTERISTICS		
Core / P-coat Concentricity Error	≤ 0.5 µm	
P-coat Diameter	125 ± 0.7 µm	
P-coat Non-Circularity	≤ 1.0%	
Acrylate Coating Diameter	245 ± 10 µm	
Acrylate Coating Strip Force	≤ 100 g	
Fiber Curl	≥ 2 m	
Proof Test (screen level)	0.69 (100) (Gpa) (kpsi)	
Dynamic Fatigue (n _d)	23 °C, 41% R.H.	> 30
Macro-bending loss at 1550 nm / 1625 nm	1 turn around 7.5 mm radius mandrel	≤ 0.5 / 1.0 dB
	1 turns around 10 mm radius mandrel	≤ 0.1 / 0.2 dB
	10 turn around 15 mm radius mandrel	≤ 0.03 / 0.1 dB
Length (typical)	2.2 ~ 25.2 km	

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

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

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