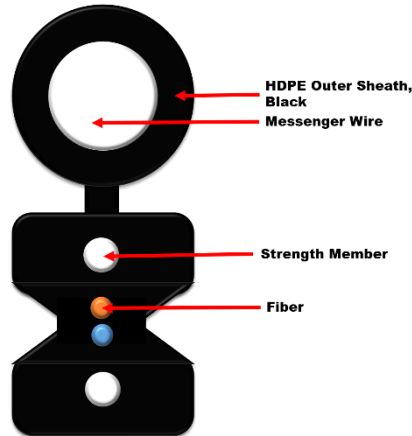# DCSS-09G657A2XXX

Drop Cable Self Supporting G657 9/125 LSZH
Sumitomo Optic Fiber

Fiber optic drop cable is designed to connect an optical fiber network to a subscriber's dwelling which helps increase speed for streaming services and data. This is known as a Fiber to the Home (FTTH) network or Fiber to the Premise or Multiple Dwelling Unit. The optical fiber is designed for self-supporting installations, and it can be installed aerially. This is the last stage in the installation of a network. The drop cable is connected to the network interface device, which is found on the outside wall of a dwelling

Features:

Properties of Single Mode Fiber	
Items	**Description**
atten.1310	≤0.36dB/km
atten.1383	≤0.36dB/km
atten.1550	≤0.22dB/km
atten.1625	≤0.24dB/km
Cable cut-off wavelength	≤1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤0.091 ps/(nm^2.km)
Mode field diameter	@ 1310 nm 8.8~9.6µm
Core/Clad concentricity error	≤0.6µm
Cladding diameter	125±1.0µm
Cladding non-circularity	≤1.0%
Primary Coating diameter	245±7µm
Macro-Bend Induced Attenuation	
15 mm radius, 1 turn	Δ≤0.05dB @1550nm
25mm radius, 100 turns	Δ≤0.05dB @1550nm
30mm radius, 100 turns	Δ≤0.05dB @1625nm

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Cable Dimensions and Constructions		
Items		**Descriptions**
Fiber	Fiber type	G657
	Fiber count	1/2/4
	Color	Blue/Orange/Green/Brown
Messenger Wire	Material	Phosphatized steel wire
	Diameter	1.0 ±0.02mm
Strength member	Material	Phosphatized steel wire
	Diameter	0.45mm*2
Outer jacket	Material	LSZH
	Color	Black
	Thickness	2.0mm ±0.1mm
	Width	5.2mm ±0.2mm

Mechanical and Environmental Characteristics		
Items	**Descriptions**	
Tensile Strength (IEC 60794-1-2 E1)	short-term	600N
	long-term	300N
Crush (IEC 60794-1-2 E3)	short-term	2200N/100mm
	long-term	1000N/100mm
Temperature Range (IEC 60794-1-2 F1)	Storage/Operation	-40℃ - +70℃
	Installation	-20℃ - +60℃
Bending Radius	Static	10D
	Dynamic	20D