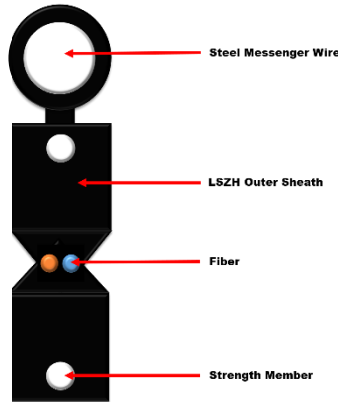


DCSSF-09G657A2XXX



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



The Outdoor FTTH Drop Cable with a thick outer packaging is durable and can withstand harsh outdoor environments. It has some mechanical and environmental characteristics such as pressure resistance, corrosion resistance and tensile strength. The optical fiber unit is positioned in the center. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. A steel wire as the additional strength member is also applied. Then the cable is completed with a black or color LSZH sheath.

Features:

Properties of Single Mode Fiber	
Items	Description
atten.1310	$\leq 0.36\text{dB/km}$
atten.1383	$\leq 0.36\text{dB/km}$
atten.1550	$\leq 0.22\text{dB/km}$
atten.1625	$\leq 0.24\text{dB/km}$
Cable cut-off wavelength	$\leq 1260\text{ nm}$
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	$\leq 0.091\text{ ps}/(\text{nm}^2 \cdot \text{km})$
Mode field diameter	@ 1310 nm 8.8~9.6 μm
Core/Clad concentricity error	$\leq 0.6\mu\text{m}$
Cladding diameter	125 \pm 1.0 μm
Cladding non-circularity	$\leq 1.0\%$
Primary Coating diameter	245 \pm 7 μm
Macro-bend induced attenuation	
15 mm radius, 1 turn	$\Delta \leq 0.05\text{dB}$ @1550nm
25mm radius, 100 turns	$\Delta \leq 0.05\text{dB}$ @1550nm
30mm radius, 100 turns	$\Delta \leq 0.05\text{dB}$ @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	FRP
	Diameter	0.5±0.01mm *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°C-+70°C
	Installation	-20°C-+60°C
Bending Radius	Static	10D
	Dynamic	20D