



OUTDOOR FLAT DROP CABLE WITH MINI SC/APC FASTCONNECT COMPATIBLE

AR-2-DROP-MSZH-1.0W 1F - G657A2
- 1FC-COM

1. Structure Diagram



2. The properties of single mode fiber (ITU-T G.657A2)

Item	Description	
	Before cable	After cable
atten.1310	$\leq 0.35\text{dB/km}$	$\leq 0.36\text{dB/km}$
atten.1383	$\leq 0.35\text{dB/km}$	$\leq 0.36\text{dB/km}$
atten.1550	$\leq 0.21\text{dB/km}$	$\leq 0.22\text{dB/km}$
atten.1625	$\leq 0.23\text{dB/km}$	$\leq 0.24\text{dB/km}$
Cable cut-off wavelength	$\leq 1260\text{ nm}$	
Zero-dispersion wavelength	1300 ~ 1324 nm	
Zero-dispersion slope	$\leq 0.091\text{ ps}/(\text{nm}^2.\text{km})$	
Mode field diameter	@ 1310 nm 8.8~9.6 μm	
Core/Clad concentricity error	$\leq 0.6\text{ }\mu\text{m}$	
Cladding diameter	$125 \pm 1.0\text{ }\mu\text{m}$	
Cladding non-circularity	$\leq 1.0\%$	
Primary Coating diameter	$245 \pm 7\text{ }\mu\text{m}$	
Macro-bend induced attenuation		
20 mm radius, 1 turn	$\Delta \leq 0.05\text{dB}$ @1550nm	
30mm radius, 10 turns	$\Delta \leq 0.1\text{dB}$ @1550nm	
50mm radius , 100 turns	$\Delta \leq 0.03\text{ dB}$ @1550nm	

3. Cable Dimensions and Constructions

Fiber	Fiber type	G657A2
	Fiber count	1
	Color	Blue
Messenger Wire	Material	Phosphatized steel wire
	Diameter	1.2±0.02mm
Strength member	Material	Phosphatized steel wire
	Diameter	0.4±0.01mm *2
Outer jacket	Material	LSZH Grey
	Color	Grey
	Thickness	2.0mm ±0.1mm
	Width	5.3m ±0.2mm

4. Mechanical data

Item	Description	
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	15D
	Dynamic	30D

5.5. Parameters of connectors

Parameters	Values
Insertion Loss	≤0.3dB
Return Loss	≤60dB
Operating temperature	'-40°C to+75°C

6. Delivery Length/ Package

50m 100m 150m with one end connector and the other end free.

