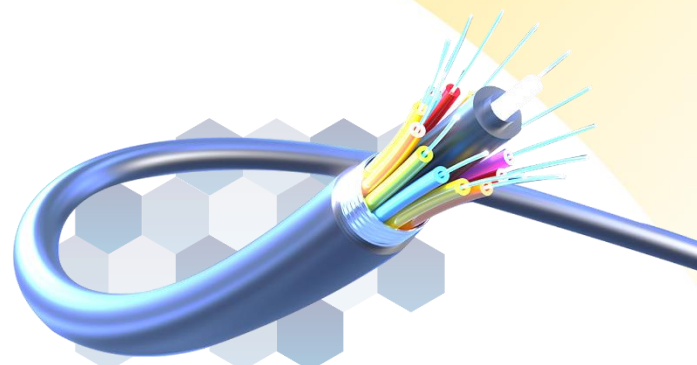


HIVIEW FIBER OPTIC CABLE HV-DC1CORE-1000



1. Structure Diagram



2. The properties of single mode fiber (G. 657A1)

Items	Description
atten.1310	$\leq 0.40\text{dB/km}$
atten.1383	$\leq 0.40\text{dB/km}$
atten.1550	$\leq 0.30\text{dB/km}$
atten.1625	$\leq 0.31\text{Db/km}$
Cable cut-off wavelength	$\leq 1260\text{ nm}$
Zero-dispersion wavelength	$1300\sim 1324\text{ nm}$
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	$\Delta \leq 0.0.1\text{dB}$ @1550nm
30 mm radius, 10 turn	$\Delta \leq 0.1\text{dB}$ @1550nm
50 mm radius, 100 turn	$\Delta \leq 0.0.5\text{dB}$ @1550nm

3. Cable Dimensions and Constructions

Item		Descriptions
Fiber	Fiber type	G657A1
	Fiber count	1
	Color	Blue
Messenger Wire	Material	Phosphatized steel wire
	Diameter	1.0+/-0.02mm
Strength member	Material	Steel wire
	Diameter	0.45+/-0.02mm*2
Outer Jacket	Material	LSZH
	Color	Black
	Thickness	2.0 mm $\pm$ 0.2mm
	Width	5.0m $\pm$ 0.2mm

4. 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

5. Packing: Plywooden Drums Protection+ outer carton

The cables are packed with 1 km on plywood drum and then in master box.

6. Delivery Length

Standard delivery length is 1km/drum or per customer's requirements.