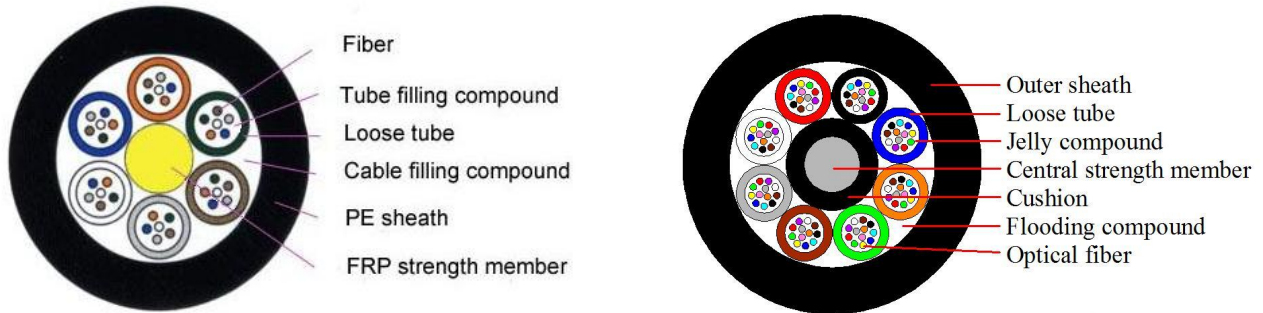


Outdoor Fiber Optical Cable Duct Non Metal Stranded Loose Tube

GYFTY SM G652D 96 144 288 Core PE

Cable Design



Technical data

No. of cable		4	8	12	24	48	72	96	144
Fiber Model		G.652D							
Design(StrengthMember+Tube&Filler)		1+6			1+6		1+8	1+12	
Central Strength Member	Material	FRP							
	Diameter (±0.05) mm	1.5				2.0			
Loose Tube	Material	PBT							
	Diameter (±0.06) mm	1.72			2.0				
	Thickness (±0.03) mm	0.30			0.32				
	The Max.Core NO./Tube	4		4		12			
Filler Rope	Material	LDPE							
	Colour	White							
	Diameter (±0.06) mm	1.7			2.0				
Water Blocking layer (Material)		Flooding Compound							
Outer Sheath	Material	MDPE							
	Thickness (±0.2) mm	1.8							
Cable Diameter(mm)		8.3			8.9	9.4	11.0	13.2	
Cable Weight(Kg/Km)		55			65	75	80	116	
Min. bending radius	Without Tension	10.0× Cable- φ							
	Under Maximum Tension	20.0× Cable- φ							
Temperature range (°C)	Installation	-20~+60							
	Transport&Storage	-40~+70							
	Operation	-40~+70							

Fibre & Loose Tube Colours

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

The properties of single mode optical fiber (ITU-T Rec. G.652.D)

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	≤ 0.36 dB/km ≤ 0.32 dB/km ≤ 0.22 dB/km ≤ 0.30 dB/km
Point discontinuity	≤ 0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm ² .km)
PMD _Q (Quadrature average*)	≤ 0.2 ps/km ^{1/2}
Mode field diameter @ 1310 nm	9.2±0.4 μm
Core / Clad concentricity error	≤ 0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	≤ 1.0%
Primary coating diameter	245 ± 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km

Application:

NO.	Item	Requirement
1	Allowable Tensile Strength	Short Term
		Long Term
		2700 N
		1000 N

2	Allowable Crush Resistance	Short Term	1000 (/100mm)
		Long Term	300 (/100mm)

Sheath marking

The optical fiber drop cable shall have sequentially numbered length marking at intervals of approximately 1 meter. The starting number of ordering length for any coil shall begin with zero meter. The accuracy of the measurement of length marking shall be held within the limits of $\pm 1\%$.

- a) Type of wire
- b) Year and month of manufacture
- c) Length marking each meter along the wire

