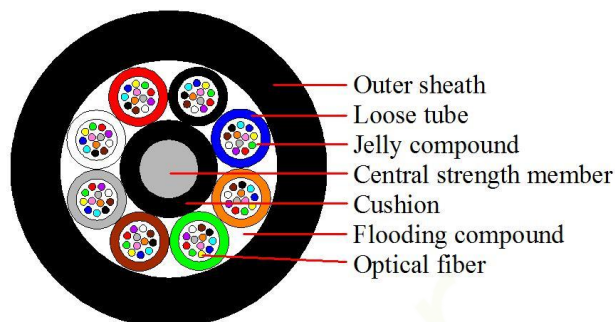
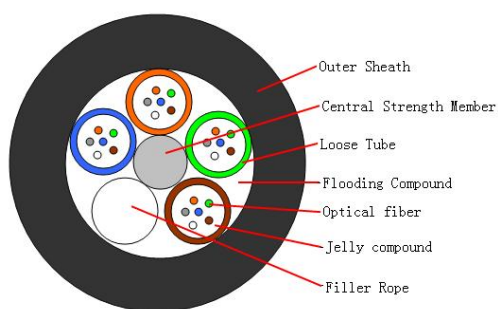




Outdoor Fiber Optic Cable Non-metallic Cable Loose Tube

144 Cores FRP Single Mode GYFTY

Cable Design



Technical data

No. of cable		4	8	12	24	48	72	96	144
Fiber Model		G.652D							
Design(StrengthMember+Tube&Filler)		1+5					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	6			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 (℃)	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	2700 N
		Long Term	1000 N
2	Allowable Crush Resistance	Short Term	1000 (/100mm)
		Long Term	300 (/100mm)

Sheath marking

The color of marking is white, but if the remarking is necessary, the **white color** marking shall be printed newly on a different position.

An occasional unclear of length marking is permitted if both of the neighboring markings are clear.



UnitekFiber

Shenzhen UnitekFiber Solution Limited

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

