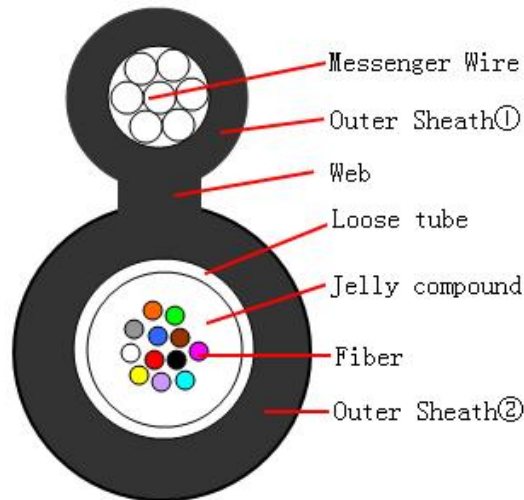




Outdoor Fiber Optical Cable Aerial GYXTC8Y Fiber Cable Central

Loose Tube 6 12 24 Core G652D PE

Cable Design



Technical data

No. of cable		2~12	14~24
Fiber Model		G.652D	
Loose Tube	Material	PBT	
	Diameter (±0.06) mm	2.0	2.8
	Thickness (±0.03) mm	0.32	0.4
	The Max.Core NO./Tube	2~12	14~24
Outer Sheath①	Material	MDPE	
	Thickness (±0.2) mm	1.2	
Outer Sheath②	Material	MDPE	
	Thickness (±0.2) mm	1.5	
Web	Material	MDPE	
	Size (±0.5) mm	1.5*1.5	
Messenger Wire	Material	Galvanized steel strand	
	Size (±0.1) mm	0.2*7	
Cable Diameter (±0.5) mm		5.2*11.2	5.8*11.8
Cable Weight (±10) kg/km		65	70
Attenuation	1310 nm	≤0.36	
	1550 nm	≤0.22	
Min. bending radius	Without Tension	5.0×Cable- φ	
	Under Maximum Tension	15.0×Cable- φ	
Temperature range (°C)	Installation	-20~+60	
	Transport&Storage	-40~+70	
	Operation	-40~+70	

**Fibre 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
No.	13	14	15	16	17	18
Color	Blue+P	Orange+P	Green+P	Brown+P	Gray+P	White+P
No.	19	20	21	22	23	24
Color	Red+P	Natural+P	Yellow+P	Violet+P	Pink+P	Aqua+P

* "P" means Point mark

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 2700N
		Long Term 1000N
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.

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

