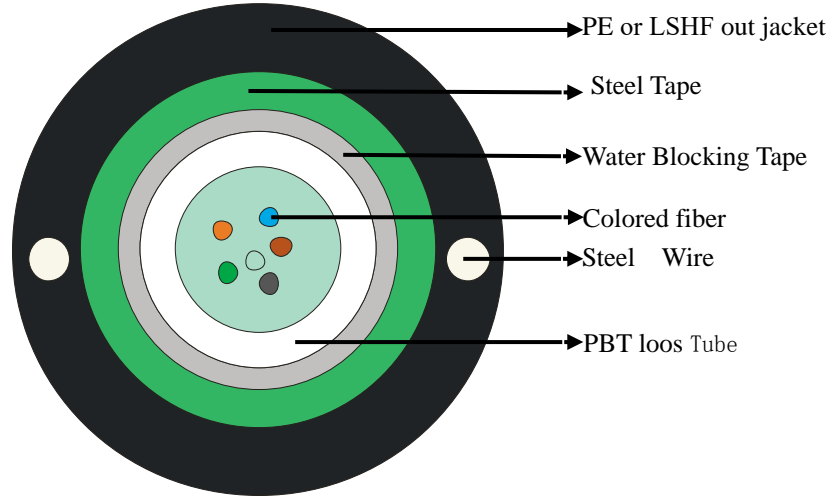


Uni-Tube Optical Fiber Cable (16~24 Fibers)(GYXTW)

1. Cable Cross-section



2. Cable Specification

2.1 Fiber color code

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+B	Orange+B	Green+B	Brown+B	Gray+B	White+B
No.	19	20	21	22	23	24
Color	Red+B	Natural+B	Yellow+B	Violet+B	Pink+B	Aqua+B

* +B = single black band ringmark

2.2 Cable structure and parameter

Fiber number	Tube Diameter	Tube thickness	Steel Wire diameter	Sheath thickness (nominal*)	Cable diameter (nominal**)	Weight (approx.)
	mm	mm	mm	mm	mm	kg/km
24	3.0	0.50	0.8	1.8	8.8	78

* The nominal sheath thickness may have a tolerance with $\pm 0.2\text{mm}$.

** The nominal outer diameter may have a tolerance with $\pm 0.4\text{mm}$.

3. Performance of Cabled Optical Fiber

Form one single mode fiber

Item	Unit	Specification
Attenuation	dB/km	1310nm ≤ 0.4 1550nm ≤ 0.3
Dispersion	Ps/nm.km	1285~1330nm ≤ 3.5 1550nm ≤ 18.0
Zero dispersion wavelength	Nm	1300~1324
Zero dispersion slope	Ps/nm.km	≤ 0.095
Fiber cutoff wavelength	Nm	≤ 1260
Mode field diameter	Um	9.2 ± 0.5
Mode field concentricity	Um	<=0.8
Cladding diameter	um	125 ± 1.0
Cladding non-circularity	%	≤ 1.0
Coating/cladding concentricity error	Um	≤ 12.5
Coating diameter	um	245 ± 10
bending,dependence induced attenuation	1550nm, 1turns,32mm diameter 100rums,60mm diameter	≤ 0.5 db
Proof test	kpsi	≥ 100

Form two multimode fiber

Item	Unit	Specification	
Attenuation	dB/km	850 nm ≤ 3.5 1300 nm ≤ 1.5	
Bandwidth	MHz · km	50/125um	62.5/125 um
		850 nm ≥ 200	850 nm ≥ 160
		1300 nm ≥ 200	1300 nm ≥ 200
Cladding diameter	um	125 ± 1.0	
Cladding non-circularity	%	≤ 1.0	
Coating/cladding concentricity error	Um	≤ 12.5	
Coating diameter	um	245 ± 10	
bending,dependence induced attenuation	850nm,1300nm diameter 100turns,75mm diameter	≤ 0.5 at 850 nm\1300 nm	
Proof test	kpsi	≥ 100	

4. Performance of Optical Cable

4.1 Cable bending radius: 10 x cable diameter (static)
20 x cable diameter (dynamic)

4.2 Application temperature range

Operating temperature range	: -40°C to +70°C
Storage / Transport temperature range	: -40°C to +70°C
Installation temperature range	: -20°C to +50°C