

E-glass yarn Strength Central Uni-Tube In/outdoor Optical Cable(GJFXTKV)

1. Cable Description

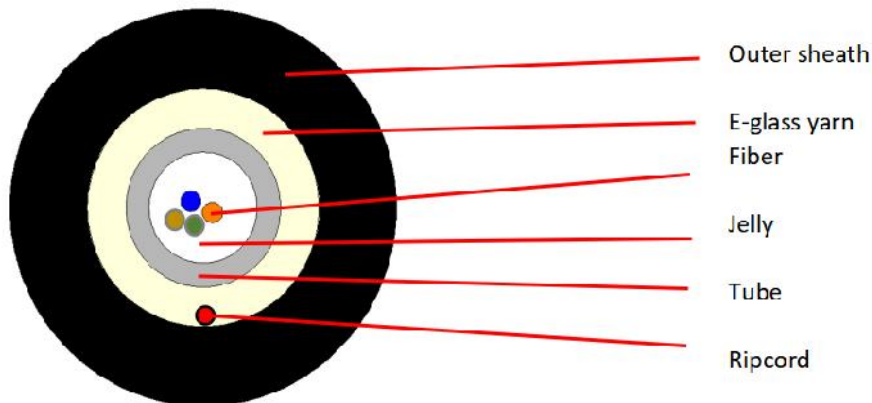
The fibers are positioned in a loose tube made of a high modulus plastic. The tube are filled with thixotropic jelly. The tube is wrapped with a layer of water-blocking material is applied to keep the cable from waterkevlar . Then the cable is completed with PE sheath.

2.Application

- Adopted to indoor or outdoor distribution;
 - Small cable size, light weight;
 - With excellent waterproofing performance.
- E-glass yarn high tension and anti rodent

3. Characteristics

- Filler protect tube fiber;
- fiber count:2~12.



4.Standard color of fiber

The color of the individual fibers, shall be in accordance with the table as below:

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

5.Cable Mechanical characteristic

Items	Cable diameter	Weight
2 cores	6.0±0.5	45.00kg/km
4 cores	6.0±0.5	45.00kg/km

6 cores		6.0±0.5	45.00kg/km
8 cores		6.0±0.5	45.00kg/km
10 cores		6.0±0.5	45.00kg/km
12 cores		6.0±0.5	45.00kg/km
Tube OD		2.8mm	
Strength member		E-glass yarn	
Outer sheath		PE	
Storage temperature (°C)		-20+60/-20+80	
Min Bending Radius(mm)	Long term	10D	
Min Bending Radius(mm)	Short term	20D	
Min allowable Tensile Strength(N)	Long term	400	
Min allowable Tensile Strength(N)	Short term	1000	
Crush Load (N/100mm)	Long term	200	
Crush Load (N/100mm)	short term	1000	

6.Fiber characteristic

Fiber style		Unit	SM G652	SM G652D	MM 50/125	MM 62.5/125	MM OM3-300
condition		nm	1310/1550	1310/155	850/1300	850/1300	850/1300
attenuation		dB/km	≤ 0.36/0.23	≤ 0.34/0.22	≤ 3.0/1.0	≤3.0/1.0	≤3.0/1.0
Dispersion	1550nm	Ps/(nm*km)	----	≤18	----	----	Dispersion
	1625nm	Ps/(nm*km)	----	≤22	----	----	
Bandwidth	850nm	MHZ.KM	----	----	≥ 400	≥ 160	Bandwidth
	1300nm	MHZ.KM	----	----	≥ 800	≥ 500	
Zero dispersion wavelength		nm	1300-1324	≥ 1302, ≤ 1322	----	----	≥ 1295, ≤ 1320
Zero dispersion slope		nm	≤0.092	≤0.091	----	----	----
PMD Maximum Individual Fibr			≤0.2	≤0.2	----	----	≤0.11
PMD Design Link Value		Ps(nm ² *km)	≤0.12	≤0.08	----	----	----
Fibre cutoff wavelength c		nm	≥ 1180, ≤ 1330	≥ 1180, ≤ 1330	----	----	----
Cable sutoffwavelength cc		nm	≤ 1260	≤ 1260	----	----	----
MFD	1310nm	um	9.2+/-0.4	9.2+/-0.4	----	----	----
	1550nm	um	10.4+/-0.8	10.4+/-0.8	----	----	----
Numerical Aperture(NA)			----	----	0.200+/-0.015	0.275+/-0.015	0.200+/-0.015

Step(mean of bidirectional measurement)	dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10
Irregularities over fiber length and point	dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10

Dicontinuity

Difference backscatter coefficient	dB/km	≤0.05	≤0.03	≤0.08	≤0.10	≤0.08
Attenuation uniformity	dB/km	≤0.01	≤0.01			
Core diameter	um			50+/-1.	62.5+/-2.5	50+/-1.0
Cladding diameter	um	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Coating diameter	um	242+/-7	242+/-7	242+/-7	242+/-7	242+/-7
Coating/chaffinch concentricity error	um	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0
Coating non circularity	%	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error	um	≤0.6	≤0.6	≤1.5	≤1.5	≤1.5
Curl(radius)	um	≤4	≤4	----	----	----

7.Package

1.Packing material: Wooden drum

2.Packing length: standard length of cable shall be 2 km. Other cable length is also available if required by customer

8. Cable marking and cable reel marking

The cable sheath shall be marked with white characters according to customer's requirement.