INARI ELECTRICS
Madrid. SPAIN
0034 916353917
info@inarielectrics.com

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

1. Cable Description

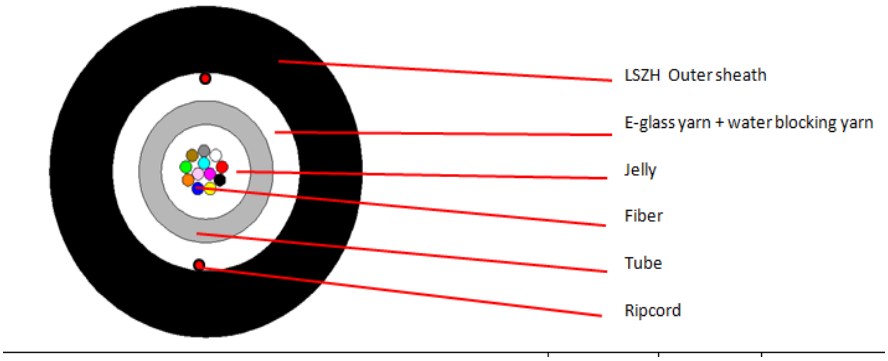
The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is wrapped with a layer of water-blocking material is applied to keep the cable from water . Then the cable is completed with LSZH sheath.

2.Application

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

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	6.5±0.5	45.00kg/km
4 cores	6.5±0.5	45.00kg/km
6 cores	6.5±0.5	45.00kg/km
8 cores	6.5±0.5	45.00kg/km

10 cores		6.5±0.5	45.00kg/km
12 cores		6.5±0.5	45.00kg/km
Tube OD		2.8mm	
Strength member		E-glass yarn	
Outer sheath		LSZH	
Storage temperature（℃）		-20+60/-20+80	
Min Bending Radius(mm)	Long term	10D	
Min BendingRadius(mm)	Short term	20D	
Min allowable Tensile Strength(N)	Long term	600	
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	850/13(	850/1300	850/1300
attenuation		dB/km	≤	≤	≤	≤3.0/1.0	≤3.0/1.0
			0.36/0.23	0.34/0.22	3.0/1.0	----	----
Dispresion	1550nm	Ps/(nm*km)	----	≤18	----	----	Dispresion
	1625nm	Ps/(nm*km)	----	≤22	----	----	
Bandwith	850nm	MHZ.KM	----	----	≧400	≧160	Bandwith
	1300nm	MHZ.KM	----	----	≧800	≧500	
Zero dispersion wavelength		nm	1300-1324	≧1302, ≤1322	----	----	≧ 1295, ≤1320
Zero dispresion slope		nm	≤0.092	≤0.091	----	----	----
PMD Maximum Individual Fibr			≤0.2	≤0.2	----	----	≤0.11
PMD Design Link Value		Ps(nm2*km)	≤0.12	≤0.08	----	----	----
Fibre cutoff wavelength λc		nm	≧ 1180, ≤1330	≧1180, ≤1330	----	----	----
Cable sutoffwavelength λcc		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 dimater	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 concentrically 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 conentricity 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 availabler
if required by custome