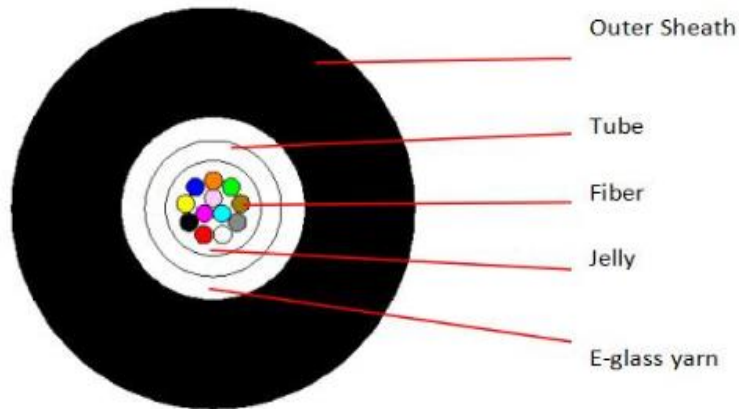


# 8 CORE INDOOR/OUTDOOR OPTIC CABLE

## G652D FR-LSZH

### HYU-CAB-IO8C002



Outer Sheath

Tube

Fiber

Jelly

E-glass yarn

## 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 E-glass yarn. Then the cable is completed with Black FR-LSZH sheath.

## Application

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

## Characteristics

- Filler protects tube fiber;
- Fiber count: 8

## 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

## Specification

Fiber style		Unit	SM G652	SMG652D	MM 50/125	MM 62.5/125	MM OM3-300
Condition		mm	1310/1550	1310/1550	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 Fibre			≤0.2	≤0.2	----	----	≤0.11
PMD Design Link Value		Ps (nm <sup>2</sup> *km)	≤0.12	≤0.08	----	----	----
Fibre cutoff wavelength λ <sub>c</sub>		nm	≥1180, ≤1330	≥1180, ≤1330	----	----	----
Cable cutoff wavelength λ <sub>cc</sub>		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
<b>Discontinuity</b>							
Different 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+/-1.0	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	----	----	----
<b>Mechanical characteristic</b>							
Items		Cable diameter			Weight		
2 cores		5.8-6.0			45.00kg/km±10		
4 cores		5.8-6.0			45.00kg/km±10		
6 cores		5.8-6.0			45.00kg/km±10		
8 cores		5.8-6.0			45.00kg/km±10		
10 cores		5.8-6.0			45.00kg/km±10		
12 cores		5.8-6.0			45.00kg/km±10		
24 cores		5.8-6.0			45.00kg/km±10		
Tube OD				2.0mm			
Strength member				E-glass yarn			
Outer sheath				FR-LSZH			
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			650			
Crush Load (N/100mm)	Long term			200			
Crush Load (N/100mm)	Short term			800			