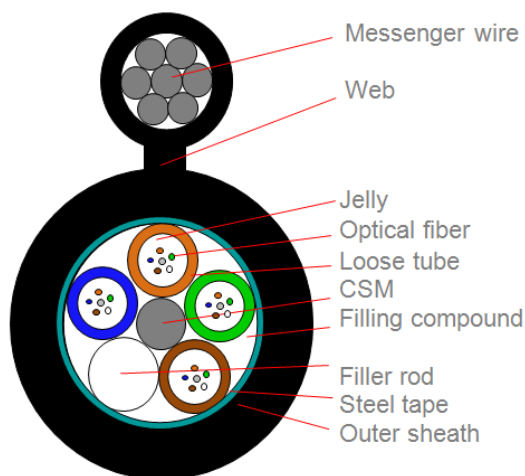


GYTC8S

1. Cable cross-section



2. Cable Specification

2.1 Introduction

Loose tube construction, tubes jelly filled, elements (tubes and filler rods) laid up around metallic central strength member, filling compound filled in the apertures of the cable core, then steel tape and PE outer sheath with messenger wires combined.

2.2 Fiber color code

Fiber color in each tube starts from No. 1 Blue.

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

2.3 Color codes for loose tube & filler rod

Tube color starts from No. 1 Blue. If there are fillers, the color is nature.

1	2	3	4
Blue	Orange	Green	Brown

2.4 Cable structure and parameter

SN	Item	Unit	Value	
1	No. of fibers	count	12~24	48
2	No. of fibers per tube(max)	count	6	12
3	No. of elements	count	5	5
4	Messenger wires	mm	7*1.0	7*1.0
5	Cable diameter	mm	8.9	9.9
6	Cable height	mm	17.1	18.1
7	Cable weight	kg/km	158	176
8	Short term tension	N	4000	4000
9	Short term crush	N/100mm	1000	1000

3. Characteristic of Optical Cable

3.1 Min. bending radius

Static: 15 x cable diameter

Dynamic: 25 x cable diameter

3.2 Application temperature range

Operation: - 40°C ~ +60°C

Installation: - 15°C ~ +60°C

Storage/transportation: - 40°C ~ +60°C

3.3 Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 794-1-2-E1	- Load: Short term tension - Length of cable: about 50m	- Fiber strain \leq 0.6% - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change \leq 0.05dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change \leq 0.1dB@1550nm - No fiber break and no sheath damage.

4. Characteristic of Optical Fiber

G652D fiber information

Mode field diameter (1310nm):	9.2 μ m \pm 0.4 μ m
Mode field diameter (1550nm):	10.4 μ m \pm 0.8 μ m
Attenuation at 1310nm:	\leq 0.36dB/km
Attenuation at 1550nm:	\leq 0.22dB/km
Bending loss at 1550nm (100 turns, 30mm radius):	\leq 0.05dB
Dispersion in the range 1288 to 1339nm:	\leq 3.5ps/ (nm•km)
Dispersion at 1550nm:	\leq 18ps/ (nm•km)
Dispersion slope at zero dispersion wavelength:	\leq 0.092ps/ (nm ² •km)