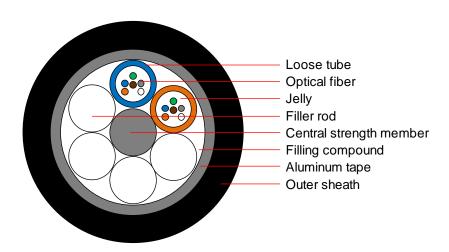
EVI Networks®

GYFTA

1. Cable cross-section



2. Cable Specification

2.1 Introduction

Loose tube construction, tubes jelly filled, elements (tubes and filler rods) laid up around non-metallic central strength member, polyester yarns used to bind the cable core, filling compound filled in the apertures of the cable core, then Al tape and PE outer sheath.

2.2 Fiber color code

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

1	2	3	4	5	6
Blue	Orange	Green	Brown	Gray	White

2.3 Color codes for loose tube

Tube color starts from No. 1 Blue.

1	2	
Blue	Orange	

2.4 Cable structure and parameter

SN	Item	Unit	Value
1	No. of fibers	count	4/8/12
2	No. of fibers per tube(max)	count	6
3	No. of elements	count	6
4	Cable diameter(±5%)	mm	9.9
5	Cable weight(±10%)	kg/km	82
6	Short term tension	N	1500
7	Short term crush	N/100mm	1000

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3. Characteristic of Optical Cable

3.1 Min. bending radius for installation

Static: 10 x cable diameter

Dynamic: 20 x cable diameter

3.2 Application temperature range

Operation: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Installation: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Storage/transportation: - 40°C ~ +70°C

3.3 Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	Load: Short term tensionLength of cable: about 50mLoad time: 1min	Fiber strain ≤ 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 ≤ 0.1dBNo fiber break and no sheath damage.

4. Characteristic of Optical Fiber

G652D fiber information

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/ (nm²•km)

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