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# **SPECIFICATION**

**FOR**

**Optical Fiber Cable**

**GYFTY TYPE**

**PE jacket**

### Form one single mode fiber

Item	Unit	Specification
Attenuation	dB/km	1310nm $\leq$ 0.4 1550nm $\leq$ 0.3
Dispersion	Ps/nm.km	1285~1330nm $\leq$ 3.5 1550nm $\leq$ 18.0
Zero dispersion wavelength	Nm	1300~1324
Zero dispersion slope	Ps/nm.km	$\leq$ 0.095
Fiber cutoff wavelength	Nm	$\leq$ 1260
Mode field diameter	Um	8.6 $\pm$ 0.5
Mode field concentricity	Um	$\leq$ 0.8
Cladding diameter	um	125 $\pm$ 1.0
Cladding non-circularity	%	$\leq$ 1.0
Coating/cladding concentricity error	Um	$\leq$ 12.5
Coating diameter	um	245 $\pm$ 1.0
bending dependence attenuation	induced	1550nm, 1turns, 32mm diameter 100turns, 60mm diameter
Proof test	kpsi	$\geq$ 100

### Form two multimode fiber

Item	Unit	Specification
Attenuation	dB/km	850 nm $\leq$ 3.0 1300 nm $\leq$ 1.0
Bandwidth	MHz · km	50/125um 62.5/125 um 850 nm $\geq$ 300 850 nm $\geq$ 200 1300 nm $\geq$ 300 1300 nm $\geq$ 300
Cladding diameter	um	125 $\pm$ 1.0
Cladding non-circularity	%	$\leq$ 1.0
Coating/cladding concentricity error	Um	$\leq$ 12.5
Coating diameter	um	245 $\pm$ 1.0
bending dependence attenuation	induced	850nm, 1300nm 100turns, 75mm diameter $\leq$ 0.5 at 850 nm\1300 nm
Proof test	kpsi	$\geq$ 100

### Each requirement

- 1 – UV colored fiber
- 2 – loose tube
  - $\Phi 2.15 \pm 0.10 \text{ mm}$
- 3 – central strength member
  - FRP+ cushion
- 4 – Outjacket: PE

**Application:**

Model	Fiber account	OD (mm)	Tube account	Nominal Weight (kg/km)	Max. Tension (N)		Max. Crushing Resistance (N/100 )	
					Short-term	Long-term	Short-term	Long-term
<b>GYFTY</b>	2--60	9.8±0.5	5	88	1500	600	1000	300
<b>GYFTY</b>	62--72	10.5±0.5	6	102	1500	600	1000	300
<b>GYFTY</b>	74--96	12.0±0.5	8	136	2000	600	1000	300
<b>GYFTY</b>	98--120	13.2±0.5	8	156	2000	600	1000	300
<b>GYFTY</b>	122--144	15.0±0.5	12	180	2500	800	1000	300

The true weight of optical cable may had some tolerance with the above stated value.

**Tactic rule for loose tube and fiber**

Fiber Account	Number of Loose Tube											
	1 <i>Red</i>	2 <i>Green</i>	3 <i>Nature</i>	4 <i>Nature</i>	5 <i>Nature</i>	6 <i>Nature</i>	7 <i>Nature</i>	8 <i>Nature</i>	9 <i>Nature</i>	10 <i>Nature</i>	11 <i>Nature</i>	12 <i>Nature</i>
2--12	Filler	Filler	Filler	Filler	Tube	/	/	/	/	/	/	/
14--24	Filler	Filler	Filler	Tube	Tube	/	/	/	/	/	/	/
26--36	Filler	Filler	Tube	Tube	Tube	/	/	/	/	/	/	/
38--48	Filler	Tube	Tube	Tube	Tube	/	/	/	/	/	/	/
50--60	Tube	Tube	Tube	Tube	Tube	/	/	/	/	/	/	/
62--72	Tube	Tube	Tube	Tube	Tube	Tube	/	/	/	/	/	/
74--84	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	/	/	/	/
86--96	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	/	/	/	/
98--108	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	/	/
110--120	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	/	/
122--132	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube
134--144	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube

Temperature range

Storage or transportation: -40~70°C

Operation: -40~70 °C

## **2. Package and shipping mark**

Printing at outjacket of optical cable

White color printing words at each meter distance, standard printing content as following ,also can match the customer require for the printing content

1. Meter mark
2. Style of optical cable and fiber account
3. Manufacturer name
4. Manufacture date

Package of optical cable

Standard length is 1KM ,other length can negotiate

Can be packed in wooden drum or plywood drum

The end face of optical cable will using plastic cap or adhesive tape sealed as water-proof

Using batten totally sealed and fixed by steel tape

The end of optical cable will be fixed into the wooden drum in order to prevent the lost during transportation process.

Wooden drum

Label will be sticked at wooden drum, content as following

1. Style of optical cable and fiber account
2. Length
3. Gross weight KGS
4. Total drums amount
5. Manufacture date
6. The following information also will be exposed at the wooden drum
  - a. Rolling direction
  - b. Optical cable rolling tightly with the wooden drum, in order to prevent it will be broken during transportation process.

## Section picture of optical cable

### Description

