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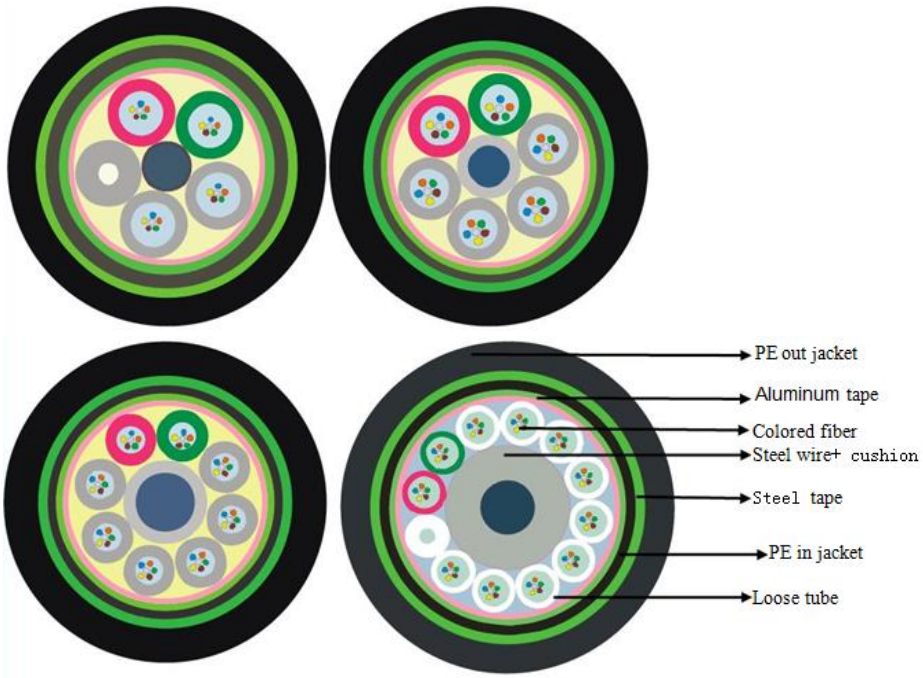
Technical Specification

Optical Fiber Cable



MODEL : GYTA53 PE Jacket

For detailed inquiry please contact our sales team at:

market@jfopt.com

Shenzhen Jiafu Optical Communication Co., Ltd
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Technical Specification

Form one single mode fiber : G.655

Characteristics	Conditions	Specified Values	Units
Optical Characteristics			
Attenuation	1550nm 1625nm	≤0.22 ≤0.24	[dB/km] [dB/km]
Attenuation vs. Wavelength Max. α difference	1525-1575nm	≤0.02	[dB/km]
Dispersion coefficient	1530-1565nm 1565-1625nm	≥2.0 ≤6.0 ≥4.5 ≤11.2	[ps/(nm • km)] [ps/(nm • km)]
Zero dispersion wavelength		≤1520	[nm]
Dispersion slope at 1550 nm Typical dispersion slope at 1550nm		≤0.084 0.075	[ps/(nm^2 • km)] [ps/(nm^2 • km)]
PMD Maximum Individual Fiber Link Design Value (M=20,Q=0.01%) Typical value		 ≤0.2 ≤0.08 0.04	 [ps/ √ km] [ps/ √ km] [ps/ √ km]
Cable cutoff wavelength λ_{cc} Mode field diameter (MFD)	 1550nm	≤1450 9.6±0.5	[nm] [μm]
Effective group index of refraction	1550nm 1625nm	1.469 1.469	
Point discontinuities	1550nm	≤0.05	[dB]
Geometrical Characteristics			
Cladding diameter		124.8±0.7	[μm]
Cladding non-circularity		≤1.0	[%]
Coating diameter		245±7	[μm]
Coating-cladding concentricity error		≤12.0	[μm]
Cladding non-circularity		≤6.0	[%]
Core-cladding concentricity error		≤0.6	[μm]
Curl(radius)		≥4	[m]
Delivery length		2.1 to 25.2	[km/reel]
Environmental Characteristics(1550nm&1625nm)			
Temperature dependence Induced attenuation at	-60℃ to +85℃	≤0.05	[dB/km]
Temperature-humidity cycling Induced attenuation at	-10℃ to +85℃,98%RH	≤0.05	[dB/km]
Water soak dependence Induced attenuation at	23℃ for 30days	≤0.05	[dB/km]
Damp heat dependence Induced attenuation at	85and85%RH,for 30days	≤0.05	[dB/km]
Dry heat aging at	85℃	≤0.05	[dB/km]

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Technical Specification

Form one single mode fiber : G.652

Item	Unit	Specification
Attenuation	dB/km	1310nm≤0.4 1550nm≤0.3
Dispersion	Ps/nm.km	1285~1330nm≤3.5 1550nm≤18.0
Zero dispersion wavelength	Nm	1300~1324
Zero dispersion slope	Ps/nm.km	≤0.095
Fiber cutoff wavelength	Nm	≤1260
Mode field diameter	Um	9.2±0.5
Mode field concentricity	Um	≤0.8
Cladding diameter	Um	125±1.0
Cladding non-circularity	%	≤1.0
Coating/cladding concentricity error	Um	≤12.5
Coating diameter	Um	245±1.0
bending, dependence attenuation	1550nm,1turns,32mm diameter,100rums,60mm diameter	≤0.5 db
Proof test	kpsi	≥100

Form two single mode fiber

Item	Unit	Specification
Attenuation	dB/km	850nm≤3.0 1300nm≤1.5
Bandwidth	MHz·km	50/125um 850 nm≥200 1300 nm≥200 62.5/125 um 850 nm≥160 1300 nm≥200
Cladding diameter	Nm	125±1.0
Cladding non-circularity	%	≤1.0
Coating/cladding concentricity error	Nm	≤12.5
Coating diameter	Um	245±1.0
bending, dependence attenuation	850nm,1300nm, 100turns,75mm, diameter	≤0.5 at 850 nm\1300 nm
Proof test	kpsi	≥100

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Each requirement

- UV colored fiber
- loose tube — Φ2.15 ±0.15 mm
- central strength member — 1.6mm FRP+ cushion
- Inner sheath — PE
- Armoured steel tape — Thickness: 0.15 mm
- Out jacket — 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
GYTA53	2-60	14.0±0.5	5	248	3000	1000	3000	1000
GYTA53	62-72	16.0±0.5	6	283	3000	1000	3000	1000
GYTA53	74-96	17.0±0.5	8	325	3000	1000	3000	1000
GYTA53	98-120	20.5±0.5	8	396	3000	1000	3000	1000
GYTA53	122-144	22.0±0.5	12	443	3000	1000	3000	1000

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Tactic rule for loose tube and fiber:

Fiber	Number of Loose Tube											
Fiber Account	1 Red	2 Green	3 Nature	4 Nature	5 Nature	6 Nature	7 Nature	8 Nature	9 Nature	10 Nature	11 Nature	12 Nature
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℃**
- **Operation: -40~70 ℃**

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Package and shipping mark:

- Printing at out jacket 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

- Meter mark
- Style of optical cable and fiber account
- Manufacturer name
- 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 stuck at wooden drum, content as following

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

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