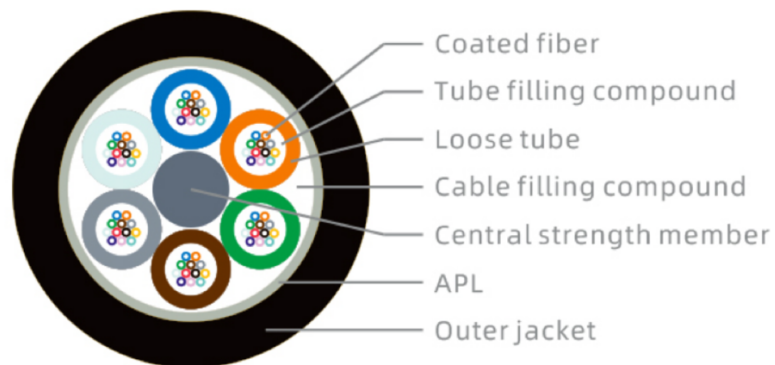


# Outdoor Fiber Optical Cable GYTA

P/N: FX-OFC-GYTA



The GYTA cable is to sheath 250µm fiber into PBT loose tube with water-resistant jelly filled. All the PBT tubes (and fillers) are stranded around the central strength member and covered by Aluminum Polyethylene Laminate (APL) into a compact and round shape. Between the fibers and tubes, the water blocking compound is filled for water resistance. Finally the cable is completed with a PE sheath.

## Fiber Parameter

Single Mode Fiber				
	Unit	G.652D	G657A1	G657A2
Cladding Diameter	µm	125±1.0	125±0.7	125±0.7
Cladding non-circularity	%	≤ 1.0	≤ 0.7	≤ 0.7
Core-cladding Concentricity Error	µm	≤ 0.6	≤ 0.5	≤ 0.5
Coating Diameter	µm	245±7	245±5	245±5
Coating non-circularity	%	≤ 6.0	≤ 6.0	≤ 6.0
Cladding-coating concentricity error	µm	≤ 12.0	≤ 12.0	≤ 12.0

Cable Cutoff Wavelength ( $\lambda_{cc}$ )		nm	$\leq 1260$	$\leq 1260$	$\leq 1260$
Mode Field Diameter	1310nm	$\mu\text{m}$	$\leq 0.4$	$\leq 0.4$	$\leq 0.4$
	1550nm	$\mu\text{m}$	$\leq 0.3$	$\leq 0.3$	$\leq 0.3$
Multimode Fiber					
	Unit	62.5/125	50/125	OM3	OM4
Core Diameter	$\mu\text{m}$	$62.5\pm 2.5$	$50\pm 2.5$	$50\pm 2.5$	$50\pm 2.5$
Cladding Diameter	$\mu\text{m}$	$125\pm 1.0$	$125\pm 1.0$	$125\pm 1.0$	$125\pm 1.0$
Core Non-circularity	%	$\leq 5.0$	$\leq 5.0$	$\leq 5.0$	$\leq 5.0$
Cladding Non-circularity	%	$\leq 1.0$	$\leq 1.0$	$\leq 1.0$	$\leq 1.0$
Core-cladding Concentricity Error	$\mu\text{m}$	$\leq 1.5$	$\leq 1.5$	$\leq 1.0$	$\leq 1.0$
Coating Diameter	$\mu\text{m}$	$245\pm 7$	$245\pm 7$	$245\pm 7$	$245\pm 7$
Coating Non-circularity	%	$\leq 6.0$	$\leq 6.0$	$\leq 6.0$	$\leq 6.0$
Cladding-coating Concentricity Error	$\mu\text{m}$	$\leq 12.0$	$\leq 12.0$	$\leq 12.0$	$\leq 12.0$
OFL Bandwidth	850nm	MHz·km	$\geq 160$	$\geq 500$	$\geq 1500$
	1300nm	MHz·km	$\geq 500$	$\geq 500$	$\geq 500$

## Color Coding

Bare Fiber	<p>IEC Standard fiber color coding:</p> <p>Blue, orange, green, brown, gray, white, red, black, yellow, purple, pink, aqua</p> <p>Note:</p> <p>① When the optical fibers in each loose tube is less than 12, they will be colored from the first color (blue) in sequence;</p>
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	② The fiber color coding can be customized
Loose tube	<p>Standard telecom industry color coding:</p> <p>Blue, orange, green, brown, gray, white, red, black, yellow, purple, pink, aqua</p> <p>T Mark Color Code:</p> <p>Red/Green (from red to green is the arrangement direction of the loose tube)</p> <p>Note:</p> <p>IEC TR 63194:2019 Annex E.2 is the default color coding standard. Color customization is available too.)</p>

### Mechanical & Environmental Characteristics

Fiber Count	Tube	Filler	Cable OD (mm)	Cable G.W. (kg/km)	Tensile Resistance (N) Long/Short Term	Crush Resistance ( N/100mm ) Long/Short Term	Bending Radius (mm) Static/Dynamic
12	1	4	9.0	100	600/1500	300/1000	10D/20D
24	4	1	9.5	110			
36	4	1	9.5	120			
48	4	1	10.0	140			
60	5	0	10.8	150			
72	6	0	11.9	170			
84	7	1	12.5	180	600/2000		
96	8	0	13.6	210			
108	9	1	14.5	230	600/2500		
120	10	0	14.8	240			
132	11	1	15.4	260			
146~216	12	0	19.8	395			
218~288	12	0	20.8	470	1000/3000		