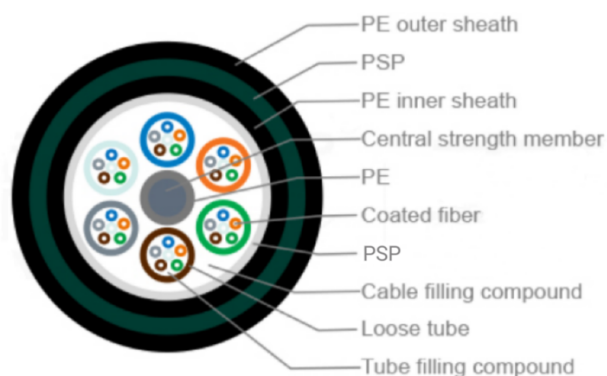


# Outdoor Fiber Optical Cable GYTS53

P/N: FX-OFC-GYTS53



The structure of GYTS53 outdoor cable is to add one layer of steel armor and PE sheath on the basis of GYTS cable, for the purpose of increasing protective performance. It is generally installed in harsh environments, suitable for the laying of pipeline and direct burial, especially suitable for occasions with high requirements for moisture-proof, rodent proof, etc.

## 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	≤ 1260	≤ 1260	≤ 1260

Mode Field Diameter		1310nm	μm	≤ 0.4	≤ 0.4	≤ 0.4	
		1550nm	μm	≤ 0.3	≤ 0.3	≤ 0.3	
Multimode Fiber							
		Unit	62.5/125	50/125	OM3	OM4	
Core Diameter		μm	62.5±2.5	50±2.5	50±2.5	50±2.5	
Cladding Diameter		μm	125±1.0	125±1.0	125±1.0	125±1.0	
Core Non-circularity		%	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	
Cladding Non-circularity		%	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	
Core-cladding Concentricity Error		μm	≤ 1.5	≤ 1.5	≤ 1.0	≤ 1.0	
Coating Diameter		μm	245±7	245±7	245±7	245±7	
Coating Non-circularity		%	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0	
Cladding-coating Concentricity Error		μm	≤ 12.0	≤ 12.0	≤ 12.0	≤ 12.0	
OFL Bandwidth		850nm	MHz·km	≥ 160	≥ 500	≥ 1500	≥ 3500
		1300nm	MHz·km	≥ 500	≥ 500	≥ 500	≥ 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> <p>② The fiber color coding can be customized</p>
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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>
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### 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	11.5	150	1000/3000	1000/3000	10D/20D
24	4	1	12.0	160			
36	4	1	12.0	170			
48	4	1	12.5	180			
60	5	0	12.5	190			
72	6	0	13.0	210			
96	8	0	15.6	265			
108	9	1	17.0	285			
120	10	0	17.5	310			
144	12	0	19.0	330			