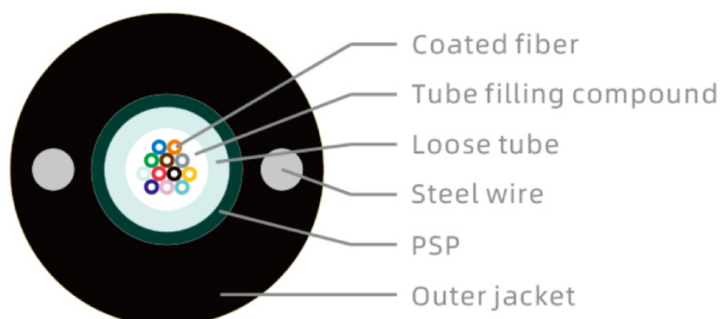


Outdoor Fiber Optical Cable GYXTW

P/N: FX-OFC-GYXTW



The GYXTW optical cable is to sheath 125 μ m fiber into PBT loose tube with water-resistant compound filled. The Loose tube is wrapped with a layer of double-side plastic coated steel tape (PSP) longitudinally. The water blocking material is filled between PSP and the loose tube to ensure the compactness and longitudinal water blocking. Two parallel steel wires are placed at the two sides of the steel tape. The cable is completed with the outer sheath.

Fiber Parameter

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

Cable Cutoff Wavelength (λ_{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
	1300nm	MHz·km	≥ 500	≥ 500	≥ 500

Cable Parameter

Items		Specifications
Fiber Count		4~24
Bare Fiber	OD	$0.25\pm 0.015\text{mm}$
	Color	Blue, orange, green, brown, grey, white, red, black, yellow, purple, violet, aqua
Loose Tube	OD	$1.8\pm 0.05\text{mm}$

	Material	PBT
	Color	Natural
Strength Member	OD	0.7mm±0.1mm
	Material	Steel
Outer Jacket	OD	8.0±0.3mm
	Material	PE
	Color	Black

Mechanical & Environmental Characteristics

Item		Parameter
Tension Resistance (N)	Long Term	600
	Short Term	1500
Crush Resistance (N/100mm)	Long Term	1000
	Short Term	3000
Min. Bend Radius (mm)	Dynamic	20D
	Static	10D
Environment (°C)	Installation	-20 ~ +60
	Operating	-40 ~ +70
	Storage	-40 ~ +70