

Layer Stranded Optical Cable (GYFTZA)

Product Description

The GYFTZA optical cable is designed by placing 250μm optical fibers into loose tubes made of high-modulus material, with the tubes filled with waterproof compound for fiber protection. The cable core features a central fiber-reinforced plastic (FRP) strength member, around which the loose tubes and filler rods are stranded to form a circular core structure. Gaps within the core are filled with water-blocking material to prevent moisture penetration. The core is sequentially wrapped with flame-retardant tape, a corrugated aluminum-plastic laminate (APL), and finally encased in a low-smoke zero-halogen (LSZH) polyolefin outer sheath, providing flame retardancy, moisture resistance, and electromagnetic shielding properties.

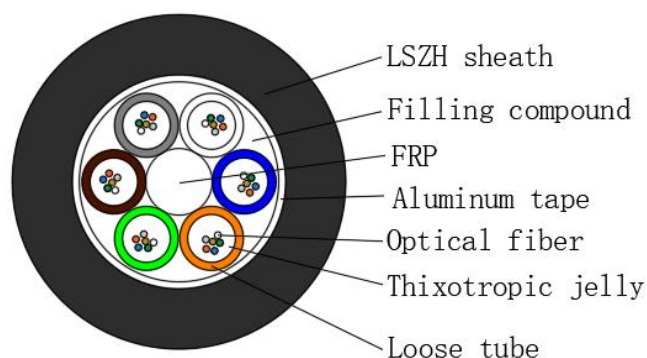
Product standard

According to IEC-60794-3-10-2015

Applications: Communication core network and access network

Product features

- High quality optical fiber is selected to ensure excellent transmission performance
- The FRP reinforcement is used to ensure that the optical cable has good tensile properties
- The loose tube material itself has good hydrolysis resistance and high strength, and the tube is filled with special thixotropic jelly to provide key protection for the optical fiber
- Full section water blocking structure, double-sided coated aluminum tape longitudinal package, to ensure good water and moisture resistance performance
- Aluminum tape is a good moisture-proof layer for optical cable
- The low smoke halogen-free flame retardant outer sheath has excellent flame retardant properties



Technical parameter

Fiber count	Element number	Max.cores in tube	Cable diameter (mm)	Weight (kg/km)
2~36	6	6	10.6	117
38~72	6	12	11.2	131

74~84	7	12	11.8	145
86~96	8	12	12.4	159
98~108	9	12	13.3	179
110~120	10	12	14.0	195
122~132	11	12	14.5	207
134~144	12	12	15	223
Tensile strength (N)	Long term		Short term	
	600		1500	
Crush resistance (N/100mm)	Long term		Short term	
	300		1000	
Bending radius	Static		Dynamic	
	≥12.5D(D is the outer diameter of optical cable)		≥25D(D is the outer diameter of optical cable)	
Operating temperature	-40℃~+70℃			
Application	Duct、Aerial			