

# Layer Stranded Optical Cable(GYTAH58)

## Product Description

The GYTAH58 optical cable is constructed by placing 250μm optical fibers into loose tubes made of high-modulus material, with the tubes filled with waterproof compound for fiber protection. A metallic central strength member is embedded at the core to ensure high tensile strength. The loose tubes and filler rods are SZ-stranded around this reinforcement to form a circular cable core, with gaps filled with water-blocking material to prevent moisture ingress. The core is longitudinally wrapped with a corrugated aluminum-plastic laminate (APL) tape for moisture resistance, followed by an outer low-smoke zero-halogen (LSZH) sheath that provides flame retardancy and minimizes toxic smoke emission during combustion.

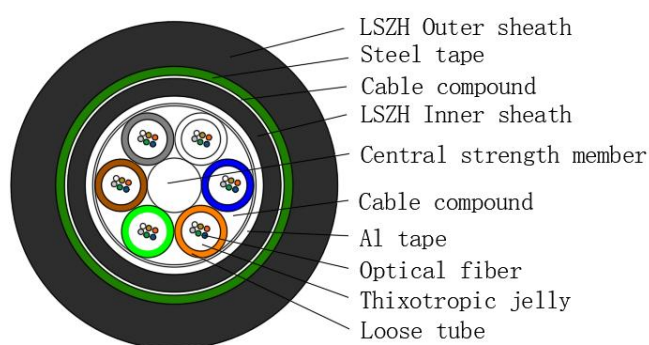
## Product standard

According to IEC-60794-3-10-2015

Applications: Direct buried

## Product features

- High quality optical fiber is selected to ensure excellent transmission performance
- Accurate control of fiber surplus length to ensure that the fiber has good tensile properties and temperature characteristics
- The loose tube itself has good hydrolysis resistance and high strength, and the special thixotropic jelly filled in the tube provide the key protection for the optical fiber
- Full section water blocking structure, double-sided coated aluminum tape longitudinal package, to ensure good water resistance and moisture resistance performance
- The central strength member is made of corrosion-resistant and high Young's modulus phosphated steel wire
- Longitudinal cladding with double-sided corrugated steel tape armor can effectively improve the lateral pressure resistance of optical cable
- Low smoke halogen-free flame retardant polyolefin sheath ensure excellent flame retardant performance of optical cable



## Technical parameter

Fiber count	Element number	Max.cores in tube	Cable diameter (mm)	Weight (kg/km)
2~36	6	6	11.8	217

38~72	6	12	12.4	234
74~84	7	12	13.0	245
86~96	8	12	13.8	272
98~108	9	12	14.4	290
110~120	10	12	15.0	302
122~132	11	12	15.6	315
134~144	12	12	16.2	358
Tensile strength（N）	Long term		Short term	
	1000		3000	
Crush resistance (N/100mm)	Long term		Short term	
	1000		3000	
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	Direct burial			