

Loose Tube Stranded Flame-Retardant Optical Cable (GYTZA/S)

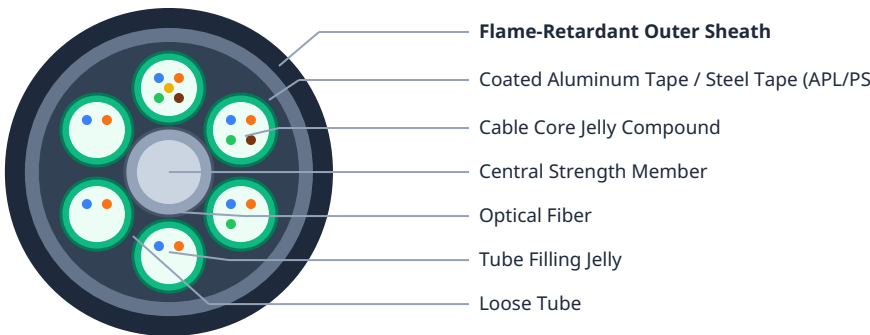
Technical Specification & Product Datasheet

Product Description

The structure of **GYTZA/S** optical cable consists of 250 µm optical fibers encased in loose tubes made of high-modulus material, filled with a waterproof compound. The center of the cable core is a metallic central strength member. For certain fiber counts, a layer of Polyethylene (PE) is extruded over the central metallic strength member.

The loose tubes (and filler rods) are stranded around the central strength member into a compact and circular cable core, with the core interstices filled with a water-blocking compound. After longitudinal application of double-sided plastic-coated aluminum tape (APL) or steel tape (PSP), a flame-retardant outer sheath is extruded to complete the cable assembly.

Cable Structure Diagram



Product Features

- Mechanical & Thermal Performance:** Excellent mechanical properties and temperature characteristics.
- Anti-Shrinkage Design:** Specially designed compact structure prevents loose tube retraction effectively.
- Hydrolysis Resistance & High Strength:** Loose tube material exhibits superior hydrolysis resistance and high strength.
- Crush Resistance & Flexibility:** Delivers good crush resistance and installation flexibility.
- Critical Fiber Protection:** Tubes filled with special waterproof jelly ensure essential protection for optical fibers.
- Custom Flame-Retardance:** Flame-retardant GYTZA/S optical cable models can be customized upon request.

Technical Parameters

Cable Model	Fiber Count	Loose Tube Count	Filler Rod Count	Cable Weight (kg/km)		Allowable Tensile Force (N)		Allowable Crush Resistance (N/100mm)		Bending Radius (mm)	
				GYTA	GYTS	Long Term	Short Term	Long Term	Short Term	Static	Dynamic
GYTZA/S-4Xn	4	1	4	76	96	600	1500	300	1000	10D	20D
GYTZA/S-12Xn	12	2	3	76	96	600	1500	300	1000	10D	20D
GYTZA/S-24Xn	24	4	1	76	96	600	1500	300	1000	10D	20D
GYTZA/S-48Xn	48	4	1	90	111	600	1500	300	1000	10D	20D
GYTZA/S-96Xn	96	8	0	136	168	600	1500	300	1000	10D	20D
GYTZA/S-144Xn	144	12	0	190	228	600	1500	300	1000	10D	20D

* Note: The above data is for reference only. Storage and Operating Temperature Range: -40°C to +70°C. ("D" represents cable diameter).

Product Compliance & Standards

Standard Conformance: Dongguan Huihong Fiber Optic Cable Co., Ltd. **GYTA/S** optical cables fully comply with **YD/T 901** and **IEC 60794-1** international/industry standards.