

Loose Tube Stranded Heavy-Armored Flame-Retardant Optical Cable (GYTZA53)

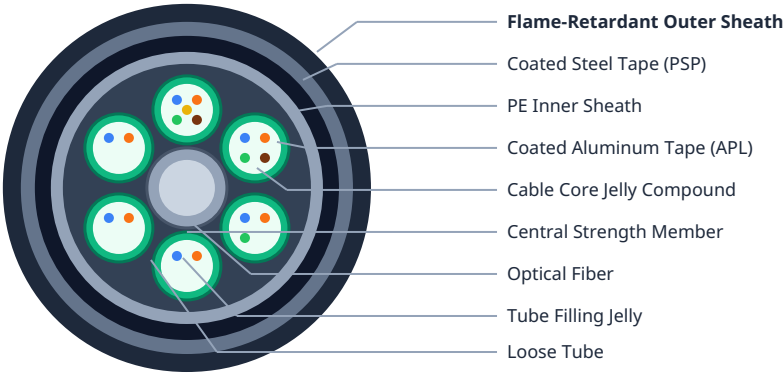
Technical Specification & Product Datasheet

Product Description

The structure of **GYTZA53** 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 coated aluminum tape (APL), an inner PE sheath is extruded. Subsequently, double-sided plastic-coated steel tape (PSP) is longitudinally applied before extruding the flame-retardant outer sheath 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 GYTZA53 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)	
					Long Term	Short Term	Long Term	Short Term	Static	Dynamic
GYTZA53-4Xn	4	1	4	175	1000	3000	1000	3000	15D	30D
GYTZA53-12Xn	12	2	3	175	1000	3000	1000	3000	15D	30D
GYTZA53-24Xn	24	4	1	175	1000	3000	1000	3000	15D	30D
GYTZA53-48Xn	48	5	0	175	1000	3000	1000	3000	15D	30D
GYTZA53-96Xn	96	9	1	230	1000	3000	1000	3000	15D	30D
GYTZA53-144Xn	144	18	0	330	1000	3000	1000	3000	15D	30D

* 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. **GYTZA53** optical cables fully comply with relevant national and industry standards for flame-retardant heavy-armored optical fiber cables.