

ARMOURED UNDERWATER OPTICAL FIBRE CABLE

(GYTA33/333)

Technical Product Datasheet & Specifications

PRODUCT DESCRIPTION

The structure of **GYTA33/333** optical cable is formed by inserting single-mode or multi-mode optical fibers into a loose tube made of high-modulus material, filled with a waterproof compound. The center of the cable core is a metallic strength member; for optical cables with certain fiber counts, a layer of Polyethylene (PE) needs to be extruded outside the metallic strength member. The loose tubes (and filler rods) are stranded around the central strength member to form a compact and circular cable core, with the gaps inside the core filled with water-blocking compound. After the Aluminum Polyethylene Laminate (APL) is longitudinally applied and extruded with a Polyethylene (PE) inner sheath, single-layer or double-layer fine round steel wire armouring is applied, and finally, a Polyethylene (PE) outer sheath is extruded to complete the cable.

PRODUCT FEATURES

- Full cross-section water-blocking structure to ensure good water-blocking and moisture-proof performance.
- Special filling compound in loose tubes provides critical protection for optical fibers.
- Longitudinally wrapped double-sided coated corrugated aluminum tape combined with fine round steel wire wrapping armouring ensures high resistance to lateral pressure, high tensile strength, and bullet-proof properties.
- Product service life of over 30 years.
- Phosphatized steel wire central strength member features high modulus and corrosion resistance.

PRODUCT SPECIFICATIONS

Cable Model	Fiber Count	Tube Count	Filler Count	Outer Diameter (mm)	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
GYTA33-12B	12	2	4	15.7	407	3000	5000	1000	4000	12.5D	25D
GYTA33-24B	24	4	2	15.7	405	3000	5000	1000	4000	12.5D	25D
GYTA33-48B	48	4	2	16.1	450	3000	5000	1000	4000	12.5D	25D
GYTA33-72B	72	6	0	16.1	450	3000	5000	1000	4000	12.5D	25D
GYTA33-96B	96	8	0	17.5	565	3000	5000	1000	4000	12.5D	25D
GYTA33-144B	144	12	0	20.6	745	3000	5000	1000	4000	12.5D	25D

Note: The above data is for reference only; Cable storage and operating temperature range: -40°C to +70°C.

COMPLIANCE & STANDARDS

Product Standard: Manufactured by **Dongguan Huihong Fiber Optic Cable Co., Ltd.**, GYTA33/333 optical cables strictly comply with **YD/T 901** and **IEC 60794-3-30** standards.