

STRANDED FIG. 8 STYLE OPTICAL FIBER CABLE

PRODUCT SPECIFICATION SHEET | GYTC8S

PRODUCT DESCRIPTION

GYTC8S optical cable structure features 250μm optical fibers inserted into loose tubes made of high-modulus material, filled with waterproof compounds. The center of the cable core consists of a metallic central strength member. The loose tubes (and fillers) are stranded around the central strength member into a compact circular cable core. After a layer of Corrugated Steel Tape (PSP) is longitudinally applied around the core, it is integrated with stranded steel wires as a messenger wire into a figure-8 polyethylene (PE) sheath.

PRODUCT FEATURES

- **Full Cross-Section Water-Blocking Structure:** Ensures excellent moisture and water-proofing performance.
- **Special Tube Filling Compound:** Provides critical protective buffering for optical fibers.
- **Longitudinal Steel Tape (PSP):** Enhances the side-crush resistance and mechanical robustness of the cable.
- **Long Service Life:** Designed for an operational lifespan exceeding 30 years.
- **Self-Supporting Fig. 8 Structure:** High tensile strength, convenient for aerial installation, significantly reducing installation costs.



GYTC8S 3D Structural Illustration

PRODUCT PARAMETERS

Cable Model	Fiber Count	Cable Dia. (mm)	Weight (kg/km)	Messenger Spec.	Web Dimensions H×W (mm)	Allowable Tensile Force (N)		Allowable Crush (N/100mm)		Bending Radius (mm)	
						Long	Short	Long	Short	Static	Dynamic
GYTC8S-12Xn	12	9.0×17.0	218	φ1.0mm×7 Steel Strand	3.0×2.5	4000	7500	500	1000	15D	30D
GYTC8S-24Xn	24	9.0×17.0	218	φ1.0mm×7 Steel Strand	3.0×2.5	4000	7500	500	1000	15D	30D
GYTC8S-72Xn	72	10.0×18.3	240	φ1.0mm×7 Steel Strand	3.0×2.5	4000	7500	500	1000	15D	30D
GYTC8S-96Xn	96	11.5×19.3	280	φ1.0mm×7 Steel Strand	3.0×2.5	4000	7500	500	1000	15D	30D
GYTC8S-144Xn	144	13.5×21.3	350	φ1.0mm×7 Steel Strand	3.0×2.5	4000	7500	500	1000	15D	30D

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

Product Standards: Dongguan Huihong Fiber Optic Cable Co., Ltd. GYTC8S optical fiber cable complies with YD/T 1155 and IEC 60794-1 standards.