



GUANGDONG CHANGCHENG COMMUNICATION TECHNOLOGY CO., LTD

TECHNICAL SPECIFICATION
FOR
(GYXTW) SM Armored outdoor
optical fiber cable

★**Products:** Fiber optic cable

★**Customer:**

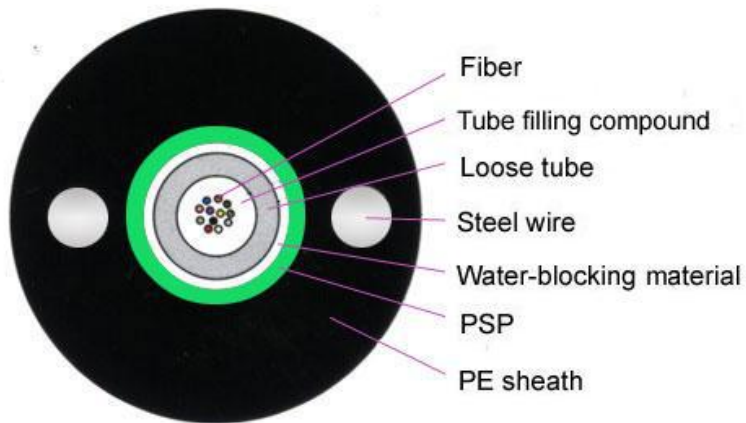
★**Date:** January 27, 2020

★**Authorized by:** Miya Gao

★**Address:** No.1 Foling Road, Liaobu Town, Dongguan city, Guangdong Province China 523000



• **Product physical structure:**



• **Product physical Map:**



• **Description**

The fibers, 250 μ m, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a waterresistant filling compound. The tube is wrapped with a layer of PSP longitudinally. Between the PSP and the loose tube waterblocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape. The cable is completed with PE/LSZH sheath and UV protection.

• **Characteristics**

1. Good mechanical and temperature performance
2. High strength loose tube that is hydrolysis resistant
3. Special tube filling compound ensure a critical protection of fiber
4. Crush resistance and flexibility
5. PSP enhancing moisture-proof
6. Two parallel steel wires ensure tensile strength
7. Small diameter, light weight and friendly installation
8. Long delivery length



• Standards

IEC 60793-1	Optical fiber : Generic specifications
IEC 60793-2	Optical fiber : Product specifications
IEC 811-1	Water Absorption
IEC 1034	Smoke Emission
IEC 754-1	ACID GAS EMISSION
ITU-T G.652	Characteristics of a single-mode optical fiber and cable
EIA/TIA 598	Color code of fiber optic cables
ROHS/CE	Complies with standard CE&ROHS
ISO	ISO9001:2015
Test Standard	IEC 60794-1-2 E1/IEC 60794-1-2 E3/IEC 60794-1-2 E4

• Optical Characteristics

		G.652	G.655	50/125μm	62.5/125μm
Attenuation (+20℃)	@850 nm			≤3.0 dB/km	≤3.0 dB/km
	@1300 nm			≤1.0 dB/km	≤1.0 dB/km
	@1310 nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550 nm	≤0.22 dB/km	≤0.23dB/km		
Bandwidth (Class A)	@850 nm			≥500 MHz·km	≥200 MHz·km
	@1300 nm			≥1000 MHz·km	≥600 MHz·km
Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
Cable Cut-off Wavelength λ _{cc}		≤1260nm	≤1480nm		



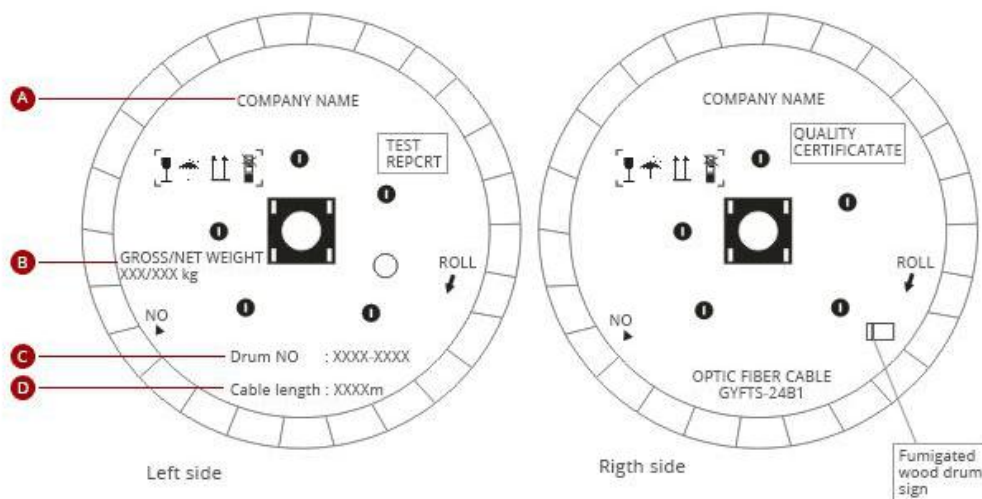
• Technical Parameters

Cable Type	Fiber Count	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/Short Term N	Crush Resistance Long/Short Term N/100mm	Bending Radius Static /Dynamic mm
GYXTW-2~12	2~12	7.0	90	600/1500	300/1000	10D/20D
GYXTW-2~12	2~12	7.0	92	1000/3000	1000/3000	10D/20D
GYXTW-14~24	14~24	7.0	92	1000/3000	1000/3000	10D/20D
GYXTW-26~36	26~36	7.0	95	1000/3000	1000/3000	10D/20D
GYXTW-38~48	38~48	8.0	100	1000/3000	1000/3000	10D/20D

Storage/Operating Temperature : -30℃ to + 70℃

• Packing and Marking

- 1、Standard wooden drum.
- 2、Cable length per drum: 2000m/drum
- 3、Cable end sealed.
- 4、Drum diameter > 30 time of cable diameter.





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