



guangzhou fiber cablepuls co ltd  
fiberoptical-cables.com



## Outdoor Fiber Optic Cable Underground Directly Buried Central Outdoor Loose Tube Cable GYXTW53

Our Product Introduction

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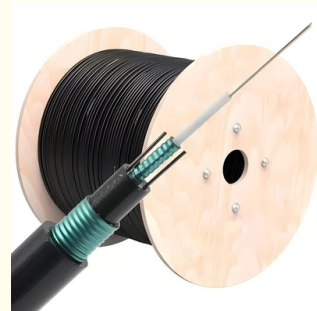
### Basic Information

- Place of Origin: GUANGZHOU/CHINA
- Brand Name: PUNAISGD/CABLEPULS
- Certification: ISO/CE/ROSH
- Model Number: GYXTW53
- Minimum Order Quantity: 2km
- Price: negotiate
- Packaging Details: Wooden Spool /drum
- Delivery Time: 5-25days
- Payment Terms: 30%TT as deposit,70%Balance before shipping.
- Supply Ability: 100km



### Product Specification

- Model No: GYXTW53
- Use: Underground
- Samples: Free
- Fiber Grade: G652D/ G657A1
- Waterblocking Material: Water Blocking Tape Or Filling Compound
- Steel Wire: 0.7\*2mm
- Cable Color: Black
- Highlight: Underground Outdoor Fiber Optic Cable, Central Outdoor Fiber Optic Cable, GYXTW53 Outdoor Fiber Optic Cable

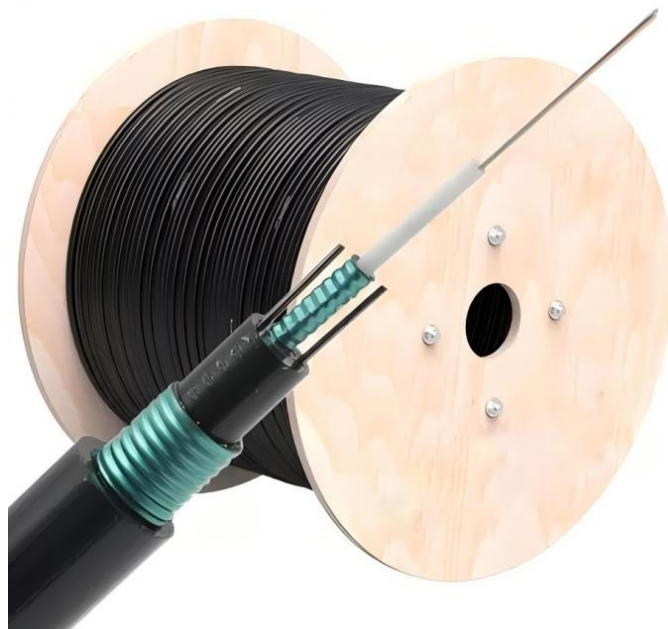


### Product Description

#### Outdoor Fiber Optic Cable Underground Directly Buried Central Outdoor Loose Tube cable GYXTW53

The **GYXTW53** cable is a type of optical fiber cable designed for outdoor and industrial use, typically used for long-distance data transmission. It is a **dry core, loose tube**, and **armored** cable with features suitable for use in harsh environments.

Our Product Introduction



## APPLICATION



### Typical Features of GYXTW53 Cable:

#### Core Construction:

The cable is usually a **loose tube** design, where optical fibers are housed in individual protective tubes, allowing them to expand and contract without strain.

**Water-blocking material** may be included around the fibers to prevent water ingress.

#### Fiber Types:

The cable often includes **single-mode (SM)** or **multi-mode (MM)** optical fibers.

The most common fiber count can range from 4 to 24 fibers, but higher fiber counts are also available.

#### Armored Design:

The "TW" in GYXTW53 typically stands for the **armored** feature of the cable. It is designed with an **armored steel wire** (often referred to as a **steel tape armoring**) to provide mechanical protection against rodent damage and external impacts.

#### Outer Sheath:

The outer sheath of the cable is often made from **LSZH (Low Smoke Zero Halogen)** or **PE (Polyethylene)**, providing fire resistance and protection against UV rays and other environmental factors.

The sheath is typically designed for **outdoor use** in underground or aerial applications.

#### Water-Blocking Features:

The cable may include **gel** or **water-blocking tape** to prevent water from traveling along the cable in case of a breach in the sheath.

#### Applications:

Typically used in outdoor installations, such as:

**Aerial and underground installations**

**Telecommunication networks**

**Fiber-to-the-Home (FTTH) or Fiber-to-the-Building (FTTB) deployments**

**Data centers, campuses, and industrial networks**

#### Temperature Range:

The cable is typically rated for operation within a temperature range of **-40°C to +70°C**.

#### Fire Rating:

Depending on the sheath material, the cable can be rated for **low-smoke, zero-halogen** fire safety, or be compliant with certain flame-retardant standards.

#### Common Standards:

IEC 60794-1 (General cable specifications)

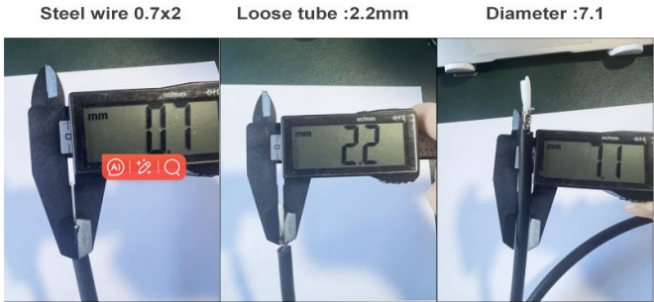
RoHS (Restriction of Hazardous Substances)

CE and UL Certifications (depending on the region and the application)

Model Number	GYXTW53
Fiber count	2-24 Cores
Fiber Type	G652D or as your need
Structure	Central loose Tube
Jacket material	PE
Armored	corrugated steel tape/Aluminium tape
strength member	Two parallel steels
Certification	CE/ROHS/ISO9001
Strength member	Steel Wire
Application	Buried
1310nm	≤0.34dB
1550nm	≤0.21dB
Package	Wooden Reel
Operating environment:	- 40 ~ 60 °C

#### Fiber Parameters

No.	Items		Unit	Specification
				G.652D
1	Mode Field Diameter	1310nm	μm	9.2±0.4
		1550nm	μm	10.4±0.8
2	Cladding Diameter		μm	125.0±1.0
3	Cladding Non-Circularity		%	≤1.0
4	Core-Cladding Concentricity Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0
8	Cable Cutoff Wavelength		nm	λ <sub>cc</sub> ≤1260
9	Attenuation(max.)	1310nm	dB/km	≤0.35
		1550nm	dB/km	≤0.21
		1380nm	dB/km	≤0.35
		1625nm	dB/km	≤0.24
10	Attenuation and wavelength	1310nm 1285-1330nm	dB/km	≤0.04
		1550nm 1525-1575nm	dB/km	≤0.03
		1550nm 1480-1580nm	dB/km	≤0.05
11	Dispersion	1288-1339nm	ps/(nm.km)	≥-3.5, ≤3.5
		1271-1360nm	ps/(nm.km)	≥-5.3, ≤5.3
		1480-1580nm	ps/(nm.km)	≤20
		1550nm	ps/(nm.km)	≤18
12	Zero dispersion wavelength		Nm	1300-1324
13	Zero dispersion slope		ps/(nm <sup>2</sup> ·km)	≤0.092
14	Typical value		ps/(nm <sup>2</sup> ·km)	0.04
15	Largest individual fiber		Ps/√ km	0.2
16	Link design values		Ps/√ km	0.1
17	Two way average		1310nm-1550	≤0.01dB



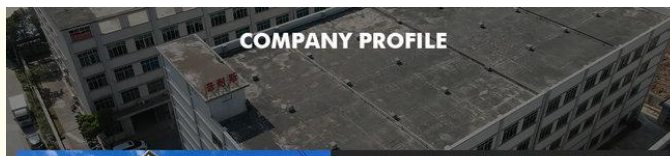
**Cable Marking&Fibers Colors**  
COMPANY Fiber cable name N\*cores G.652D 2024 XXXXm

\*The marking is printed every 1 meter;  
\*\*\*G.652D\* means ITU-T Rec. Low Water Peak (LWP) G.652 single mode optical fiber..


Also can according to client cable marking.



**Production Supplier Profile**



## COMPANY PROFILE



### ABOUT FIBER

Guangzhou fiber cablepuls co.,ltd

Fiber cablepuls is one of the high-tech fiber optic cable factories in China that can produce the most complete series of fiber optic cables, equipped with the most advanced fiber optic cable manufacturing, and have the most advanced fiber optic connector production and testing equipment in China.

The factory has obtained SGS ISO9001-2015, ISO14001-2004 and GB/T28001-2001 successfully obtained international system certification.

Over the past 12 years, we have provided optical cable products and comprehensive solutions to more than 90 countries and regions around the world, and have received unanimous praise from customers, such as foreign telecom departments of the United States, Mexico Telecom, Thailand Telecom, Philippines Telecom, etc.; domestic customers include: China Mobile, the General Administration of Radio, Film and Television, Lenovo, and many other large national enterprises.



### OUR PRODUCTION CAPACITY AND QUALITY CONTROL SYSTEM



#### How do I place an OEM or customized order?

- 1) Send your purchase intention to our email: [cotton@fibercablepuls.com](mailto:cotton@fibercablepuls.com)
- 2) Our sales team will contact you to confirm the product specification, packaging, printing, quantity, and other specific information.
- 3) Sign the contract or Proforma Invoice.
- 4) After receiving your deposit, we will start to arrange the production.
- 5) 2 weeks before the completion of production, we will notify you to start contacting shipping.

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