



Outdoor Fiber Optic Cable GYXTW 53 Fiber Optic Cable 2-12 Core Single Mode Armored Fiber Optical Cable

Our Product Introduction

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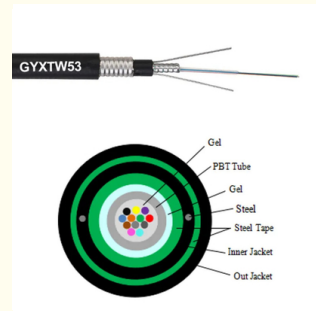
Basic Information

- 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



More Images



Product Description

GYXTW 53 Fiber Optic Cable 2-12 Core Single Mode Armored Fiber Optical Cable

Description:

The GYXTW53 armoured loose tube fiber optic Cable, constructed with a central tube filled with water blocking jelly giving it excellent water and moisture resistance. Two corrugated steel armouring and two steel wires strengthening with in the inner PE sheath and an outer PE sheath give this cable excellent tensile strength, mechanical and environmental protection. They have small diameter, light weight and installation friendly since they come in a single tube with loose tube fiber count up to 12 fibers. Their compact construction protects the loose tube from shrinking, the double armour makes it crush, rodent and impact resistance, the outer PE sheath gives it ultraviolet protection.

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
GYXTW53-2~12	2~12	12.0	165	1000/3000	1000/3000	10D/20D

Storage/Operating Temperature : -40°C to + 70°C

Features:

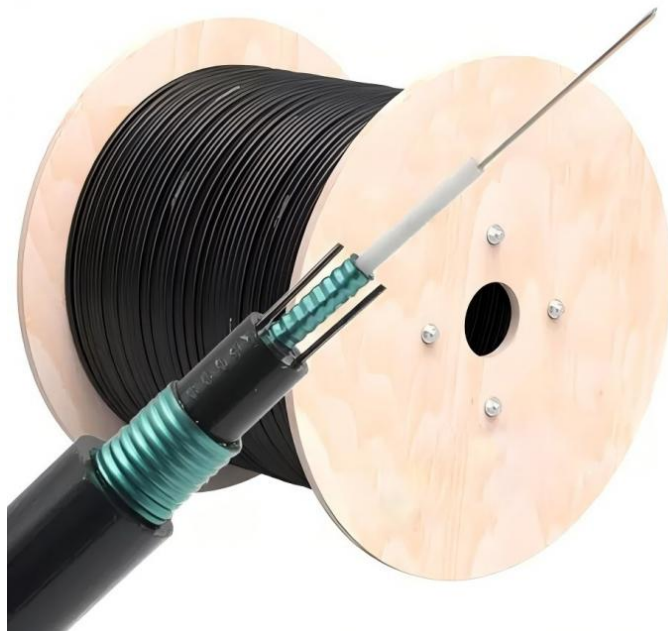
- Good mechanical and temperature performance

Our Product Introduction

- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber
- Crush resistance and flexibility
- PSP enhancing moisture-proof
- Two parallel steel wires ensure tensile strength
- PE sheath gives excellent UV protection
- Small diameter, light weight and friendly installation
- Long delivery length

Application:

1. Adopted to Outdoor distribution
2. suitable for outdoor distribution through ducts, conduits or aerial pipe lines.
3. Long distance and local area network communication
4. Used outdoor cabling



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 an **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 1550nm	μm μm
			9.2±0.4 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 _{cc} ≤1260
9	Attenuation(max.)	1310nm 1550nm 1380nm 1625nm	dB/km dB/km dB/km dB/km
			≤0.35 ≤0.21 ≤0.35 ≤0.24
10	Attenuation and wavelength	1310nm 1285-1330nm 1550nm 1525-1575nm 1550nm 1480-1580nm	dB/km dB/km dB/km
			≤0.04 ≤0.03 ≤0.05
11	Dispersion	1288-1339nm 1271-1360nm 1480-1580nm 1550nm	ps/(nm.km) ps/(nm.km) ps/(nm.km) ps/(nm.km)
			≥-3.5, ≤3.5 ≥-5.3, ≤5.3 ≤20 ≤18
12	Zero dispersion wavelength	Nm	1300-1324
13	Zero dispersion slope	ps/(nm ² ·km)	≤0.092
14	Typical value	ps/(nm ² ·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

Steel wire 0.7x2

Loose tube :2.2mm

Diameter :7.1



Cable Marking&Fibers Colors

COMPANY Fiber cable name N*cores G.652D 2024 XXXXm

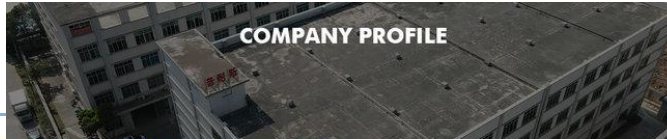
*The marking is printed every 1 meter;

***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 successively 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.



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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
- 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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