GYXTW-12B1.3 Outdoor Fiber Optic Cable 12 Core G652D Aerial

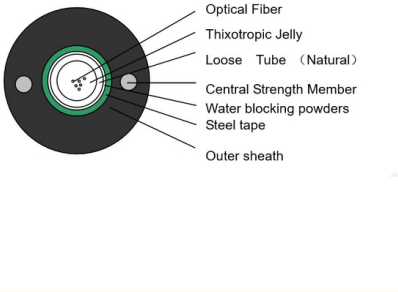
Our Product Introduction

Basic Information

- Place of Origin: GUANGZHOU/CHINA
- Brand Name: PUNAISGD/CABLEPULS
- Certification: ISO/CE/ROSH
- Model Number: GYXTW-6B1.3
- 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: GYXTW-12B1.3
- Use: Aerial
- Loose Tube Material: PBT With Jelly
- Cable Diameter: 8mm
- Samples: Free
- Fiber Grade: G652D
- Waterblocking Material: Water Blocking Tape Or Filling Compound
- Steel Wire: 1.0*2mm
- Cable Color: Black
- Highlight: **8B1 Outdoor Fiber Optic Cable**, **GYXTW-8B1 Outdoor Fiber Optic Cable**, **Outdoor Fiber Optic Cable GYXTW-8B1**



Product Description

Outdoor Fiber Optic Cable GYXTW-8B1

Product Attributes

Model No	GYXTW-12B1.3
Use	Aerial
Loose Tube Material	PBT with Jelly
Cable Diameter	8mm
Samples	free
Fiber Grade	G652D
Waterblocking Material	Water Blocking Tape Or Filling Compound
Steel Wire	1.0*2mm
Cable Color	Black

The cable structure consists of single-mode or multi-mode optical fibers in a loose tube made of high modulus polyester material, filled with waterproof compound. The loose tube features a layer of double-sided chrome-plated plastic coating longitudinally, with water blocking material between the strip and loose tube to ensure compactness and longitudinal water blocking. Two parallel wires are placed on both sides, covered with a polyethylene (PE) jacket. This cable is primarily used for outdoor small core fiber optic communication installations, with a maximum core count of 12 per cable.

GYXTW Fiber Optic Cable Technical Specifications

Cable Type	GYXTW
Fiber Type	G652D Single-Mode Fiber
Number of Cores	12 Cores
Outer Diameter	8 mm
Cable Structure	Central strength member, loose tube, steel wire armoring, PE sheath

Fiber Core Parameters

Mode Field Diameter	8.6 - 9.5 µm @ 1310 nm
Cladding Diameter	125.0 ± 0.7 µm
Core/Cladding Concentricity	≤ 0.5 µm
Coating Diameter	245 ± 5 µm
Attenuation	≤ 0.36 dB/km @ 1310 nm, ≤ 0.22 dB/km @ 1550 nm
Dispersion	≤ 3.5 ps/(nm*km) @ 1288-1339 nm, ≤ 18 ps/(nm*km) @ 1550 nm
Zero Dispersion Wavelength	1300 - 1324 nm
Cable Cutoff Wavelength	≤ 1260 nm
Bend Radius	20x cable diameter (static), 10x cable diameter (dynamic)

Mechanical Properties

Tensile Strength	600 N (short-term), 1500 N (long-term)
Crush Resistance	3000 N/100 mm

Impact Resistance	1 N*m (1 kg, 1 m drop)

Environmental Properties

Operating Temperature	-40°C to +70°C
Storage Temperature	-50°C to +80°C
Water Resistance	Passes IEC 60794-1-F5B water penetration test
Standards Compliance	ISO 9001, RoHS, IEC 60793, IEC 60794

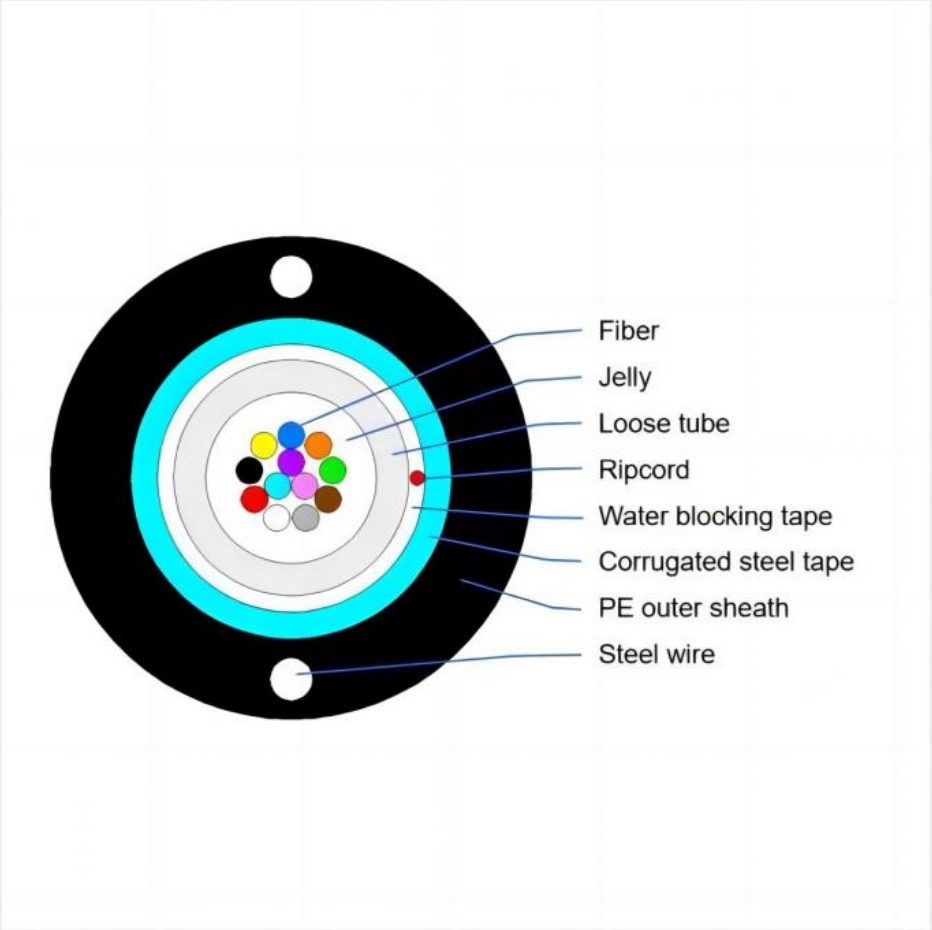
Key Features

G652D Fiber: Ideal for long-distance, high-bandwidth applications with low attenuation and excellent dispersion characteristics.

Steel Wire Armoring: Provides superior mechanical protection and tensile strength.

PE Sheath: Ensures durability and resistance to environmental factors such as UV, moisture, and abrasion.

GYXTW Cable Order Information



Cable Data

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	CSM diameter/pad diameter (mm)	Nominal Thickness of outer jacket (mm)	Cable diameter/ Height (mm)	Cable weight (kg/km)
2	1	2	1.7±0.1	1.0/1.0	1.6	8.0±0.2	57
4	1	4	1.85±0.1	1.0/1.0	1.6	8.0±0.2	58
6	1	6	1.9±0.1	1.0/1.0	1.6	8.0±0.2	58
8	1	8	2.0±0.1	1.0/1.0	1.6	8.0±0.2	60
12	1	12	2.2±0.1	1.0/1.0	1.6	8.0±0.2	60

Fiber Parameters

No.	Items	Unit	Specification
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	λcc≤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/(nm2•km)	≤0.092
14	Typical value	ps/(nm2•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

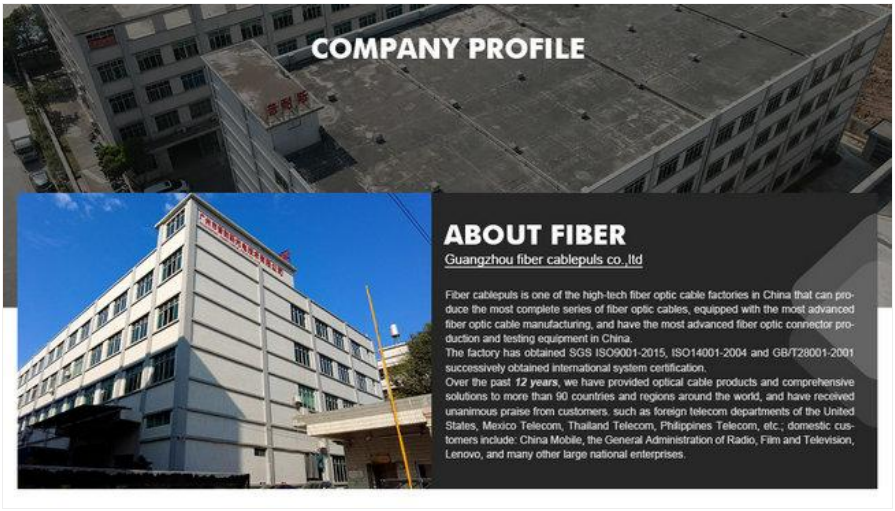
Cable Marking & Fibers Colors

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



How to Place an OEM or Customized Order

Send your purchase intention to our email:**cotton@fibercablepuls.com**

Our sales team will contact you to confirm the product specification, packaging, printing, quantity, and other specific information.

Sign the contract or Proforma Invoice.

After receiving your deposit, we will start to arrange the production.

2 weeks before the completion of production, we will notify you to start contacting shipping.

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