Optical Fiber Cable 24 core FRP

Variants

GYFXY 6.2mm-CH GYFXY 8mm-CH GYFXY 7mm-CH

Details

24 CORE • SINGLE MODE • G.652D

Outdoor Single-Mode Fiber Cable • PBT Loose Tube • FRP Strength Member • 2400D Yarn • MDPE Outer Sheath

Product Overview

The **24 Core Optical Fiber Cable** is designed for reliable outdoor optical transmission in ISP, telecom, backbone, enterprise and fiber infrastructure networks.

It uses **ITU-T G.652D single-mode optical fiber**, **PBT loose tube construction** , **FRP strength members**, **2400D reinforcement yarn** and an **MDPE outer sheath** for dependable mechanical and environmental performance.

FIBER COUNT

24 Core

FIBER STANDARD

G.652D

STRENGTH MEMBER

FRP

STANDARD LENGTH

2000M

Key Features

? 24 Core Single-Mode Optical Fiber

? ITU-T G.652D Fiber Standard

? PBT Loose Tube Construction

? Non-Metallic FRP Strength Member

? 2400D Reinforcement Yarn

? Durable MDPE Outer Sheath

? Low Optical Attenuation

? Suitable for Outdoor Fiber Networks

Fiber Color Code

Standard 12-color fiber identification sequence. For 24-core construction, the color sequence is repeated according to the cable's loose-tube arrangement.

1. Blue
2. Orange
3. Green
4. Brown
5. Gray
6. White
7. Red
8. Black
9. Yellow
10. Violet
11. Pink
12. Aqua

Cable Construction

Component	Parameter	Specification
Optical Fiber	Fiber Standard	Single Mode ITU-T G.652D

Component	Parameter	Specification
Loose Tube	Material	PBT
Loose Tube	Diameter	1.9 mm
Strength Member	Material	FRP
FRP	Diameter	0.8 mm
Reinforcement	Yarn	2400D Yarn
Outer Sheath	Material	MDPE
Cable Diameter	Nominal	7 / 8 mm (±0.3 mm)

Mechanical Performance

TENSILE LOAD

400 / 1000 N

CRUSH RESISTANCE

300 / 1000 N

per 100 mm

STATIC BEND

10 × OD

INSTALLATION BEND

20 × OD

G.652D Optical Performance

Parameter	Specification
Fiber Material	Doped Silica
Attenuation @ 1310nm	? 0.36 dB/km
Attenuation @ 1383nm	? 0.32 dB/km
Attenuation @ 1550nm	**? 0.22 dB/km**
Attenuation @ 1625nm	? 0.30 dB/km
Point Discontinuity	? 0.05 dB
Cable Cut-Off Wavelength	? 1260 nm
Zero-Dispersion Wavelength	1300 – 1324 nm
Zero-Dispersion Slope	? 0.093 ps/(nm²·km)
Chromatic Dispersion @ 1288–1339nm	? 3.5 ps/(nm·km)
Chromatic Dispersion @ 1271–1360nm	? 5.3 ps/(nm·km)
Chromatic Dispersion @ 1550nm	? 18 ps/(nm·km)
Chromatic Dispersion @ 1625nm	? 22 ps/(nm·km)
PMDQ	? 0.2 ps/km$^{1/2}$
Mode Field Diameter @ 1310nm	9.2 ± 0.4 ?m

Parameter	Specification
Core / Cladding Concentricity	? 0.5 ?m
Cladding Diameter	125.0 ± 0.7 ?m
Cladding Non-Circularity	? 1.0%
Primary Coating Diameter	245 ± 10 ?m
Proof Test	100 kpsi (0.69 GPa), 1%

Environmental Performance

OPERATING

-40°C to +60°C

INSTALLATION

-20°C to +50°C

STORAGE / TRANSPORT

-50°C to +70°C

Packing & Delivery

Parameter	Details
Packing Type	Wooden Drum / Coil Type
Standard Length	**2000 m ±5%**

Parameter	Details
Drum Protection	Plastic buffer sheet with strong protective wooden battens
Testing Reserve	Minimum 1 m cable end reserved for testing
Permitted Single Length	Not less than 90% of standard length where applicable

Applications

ISP Networks | Telecom Backbone | FTTx Networks | Enterprise Fiber | Campus Networks | Outdoor Fiber Distribution | Backbone Infrastructure

24 Core Cable Configuration

The supplied specification contains a conflicting entry showing **“12”** in the optical-fiber core field while the product is identified as **24 Core**. Confirm the exact loose-tube arrangement and fibers per tube before publishing that specific construction value.

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