

# Optical Fiber Cable 12 core FRP

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## Variants

6MM (Drum) 6.2MM (Coil) GYFXY-12Core 6.2mm 8MM (Coil)

## Details

The 12-Core FRP 6mm Optical Fiber Cable is a high-performance solution designed for efficient and reliable data transmission in various networking applications. Its construction features 12 single-mode fibers compliant with G.652D standards, ensuring low attenuation and high-speed data transfer.

Technical Parameters:

Fiber Type: Single Mode Fiber G.652D

Number of Fibers: 12

Cable Diameter: Approximately 6mm

Attenuation:

@1310nm: ≤0.36 dB/km

@1550nm: 0.22 dB/km

Strength Member: Fiber Reinforced Plastic (FRP)

Outer Sheath Material: High-Density Polyethylene (HDPE), Black

Standard Length: 3000 meters  $\pm 10\%$

### Key Features:

**High Fiber Count:** Contains 12 fibers, facilitating multiple data channels within a single cable.

**Robust Construction:** Incorporates FRP as a central strength member, enhancing durability and resistance to physical stresses.

**Environmental Resilience:** The HDPE outer sheath offers protection against moisture, temperature variations, and UV radiation.

**Low Signal Loss:** Engineered for minimal attenuation, ensuring efficient long-distance data transmission.

### Product Advantages:

**Enhanced Durability:** The FRP strength member provides superior tensile strength,

reducing the risk of cable damage during installation and operation.

**Versatile Applications:** Suitable for various installations, including aerial and duct applications, due to its lightweight and flexible design.

**Cost-Effective:** Combines high performance with durability, offering a cost-efficient solution for expanding network infrastructures.

**Ease of Installation:** The cable's design facilitates straightforward handling and installation, reducing labor costs and time.

This optical fiber cable is ideal for telecommunications, data centers, and other high-speed network environments requiring reliable and efficient data transmission.

#### Product Overview of Optical Fiber Cable 12 core FRP 6MM (Drum):

Acrylate primary coated fiber placed loosely in a jelly-filled uni-tube, HDPE jacketed, steel wire embedded in HDPE jackets as strength member, fiber optic cable for CATV application.

#### Optical Characteristics of G 652D Fibers

Attenuation (dB/Km) @1310nm@1550nm

fiber cut off wavelength

Mode Field Diameter @1310nm < 9.3+-0.5mm

Mode Field Diameter @1310nm < 9.3+-0.5mm

Mode Field Diameter @1550nm < 10.4+-0.5mm

Cable Construction Details of Optical Fiber Cable 12 core FRP 6MM (Drum):

No. of Fibers in Tube : 2/4/6/12 fibers per tube as per fiber count

Loose Tube: PBT Loose Tube Filled in Thixotropic Jelly

Strength Member: Fiber Reinforced Plastic

Outer sheath: High density polyethylene - Black Color -1.8mm Nominal

Standard Length: 3000m+- 10

Additional Information of Optical Fiber Cable 12 core FRP 6MM (Drum):

Item Code	6F_FRP_OFC
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Delivery Time	As per market Demand
Production Capacity	500 Km
Packaging Details	Roll And Drum

Our 12 Core FRP (Fiber Reinforced Plastic) cable is the preferred choice for ISPs in Nepal looking for a non-metallic aerial solution. The 6mm diameter makes it lightweight for stringing across poles in Kathmandu and hilly regions, while the FRP member provides anti-lightning protection, essential for the Himalayan climate.