

# Optical Fiber Cable 12 core Steel

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## Variants

6MM (Coil) 6MM( Drum)

## Details

## Product Description

The **Optical Fiber Cable 12 Core (2 Steel)** is a high-strength, durable fiber optic cable designed for demanding environments. With **two steel strength members**, it provides superior tensile strength and crush resistance, making it ideal for **aerial, duct, and direct burial installations**. The **12 single-mode fibers** ensure high-speed, long-distance data transmission with minimal signal loss.

## Key Features

- 12 Fiber Cores** – Supports high-capacity data transfer for telecom, FTTH, and enterprise networks.
- 2 Steel Strength Members** – Enhances mechanical durability and resistance to tension.
- Single Mode Fiber (G.652D)** – Optimized for long-distance, low-loss transmission.
- Robust Outer Jacket (HDPE)** – Weather-resistant, UV-protected, and suitable for outdoor use.
- Compact & Lightweight** – Easy to install in ducts, conduits, or aerial deployments.

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## Technical Specifications

Category	Parameter	Specification
General	Number of Cores	12 Core
	Outer Diameter	6 mm (may vary)

Category	Parameter	Specification
	Cable Length	1 km (standard)
	Voltage Rating	12V (if applicable)
	Coil Length (if supplied)	2000 m (customizable)
<b>Fiber Details</b>	Fiber Type	Single Mode Fiber (G.652D)
	Fibers per Loose Tube	6F or 12F (depending on construction)
	Fiber Colors	Blue, Orange, Green, Brown, Grey, White
<b>Fiber Attenuation</b>	@ 1310 nm	?0.36 dB/km
	@ 1550 nm	?0.22 dB/km
<b>Strength Members</b>	Material	<b>2 Steel Wires</b> (for high tensile strength)
	Diameter	1.0 mm (typical)
<b>Loose Tube</b>	Quantity	1 or 2 (depending on design)
	Material	PBTP (or LSZH for flame-retardant options)
	Nominal Diameter	1.9 mm
	Color	Natural
	Filling Compound	Thixotropic Jelly (water-blocking)
<b>Outer Jacket</b>	Material	HDPE (UV-resistant for outdoor use)
	Color	Black
	Nominal Thickness	2.1 mm
<b>Tensile Strength</b>	Max Load	?1000 N (depends on steel gauge)
<b>Cable Dimensions</b>	Nominal Diameter	6 mm (may vary)
	Nominal Weight	~50 kg/km (heavier due to steel)
<b>Standard Length</b>	Available Lengths	2000–5000 meters (customizable)
<b>Printing Details</b>	Manufacturer/Supplier	[Your Company Name]

## Applications

? **Telecommunication Networks** (FTTx, backbone lines)

? **Aerial & Underground Deployments** (steel wires for support)

? **Data Centers & Enterprise Networks**

? **Industrial & Harsh Environments** (crush-resistant)

## Advantages

- ? **Superior Tensile Strength** – Steel reinforcement prevents stretching/snapping.
- ? **Weather & Rodent Resistant** – HDPE jacket protects against moisture and damage.
- ? **Long-Distance Performance** – Low attenuation for high-speed data transfer.
- ? **Easy Installation** – Flexible yet strong for duct, aerial, or direct burial.