

# 3000 meters of optical fiber cable



## AI Overview

3000 meters of optical fiber cable is available in various types, including single-mode, armored, direct-buried, and LSZH, suitable for long-distance data transmission and networking applications.

**Types and Construction**

**Single-Mode Optical Fiber:** Designed for long-distance communication, single-mode cables have a small core diameter that allows light to travel straight, minimizing signal loss. For example, the Hikvision DS-QFV-CKS4L/3000M features a loose tube construction with water-blocking yarns, steel tape, and an LSZH outer sheath for flame retardancy and durability.

**Direct-Buried and Armored Cables:** Cables like the GYFTY53 3000m optical cable are designed for harsh environments. They include a fiber-reinforced plastic (FRP) central strength member, steel tape armor, double polyethylene (PE) sheath, and jelly-filled tubes to prevent water ingress. These cables are resistant to rodent damage, crushing, and electromagnetic interference, making them suitable for duct or direct-buried installation.

**Bare Fiber Options:** For indoor or controlled environments, bare fiber cables such as the OMPF3000 3mm cable provide flexibility and ease of installation, often used in patch panels or short-distance connections.

**Key Features**

**Length:** 3000 meters, suitable for large-scale installations.

**Durability:** Options include armored steel tape, double PE sheath, and water-blocking materials.

**Fire Safety:** LSZH (Low Smoke Zero Halogen) jackets reduce toxic smoke in case of fire.

**Environmental Resistance:** Many cables are designed to withstand moisture, temperature variations, and rodent attacks.

**Core Count:** Available from 2 cores up to 288 cores depending on the application.

**Applications**

**Telecommunications:** Long-distance data transmission for ISPs and telecom operators.

**FTTH (Fiber to the Home):** Connecting multiple residences or buildings.

**Industrial Networks:** High-reliability connections in factories, oil fields, and railways.

**Outdoor Installations:** Direct-buried or ducted cables for urban and rural infrastructure.

**Purchasing Considerations** When selecting a 3000m optical fiber cable...

## Article Content

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Indoor/Outdoor Fiber Optic Cable, 6-fiber, multimode, OM3, LSZH,

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Fiber Optic Cable Range: Comprehensive Guide – TURNSTONE CABLES

Fiber optic cable range explained with key tips on distance, types, and setup to keep connections stable, fast, and ready for future upgrades.

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Fiber Optic Cable Distance: A Comprehensive Guide

Learn all about fiber optic cable distance and the key factors that affect it. Find out how to select the appropriate cables for your network and

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This optical fiber cable features a stranded loose tube design with 4 single-mode fibers, offering excellent flexibility and resistance to bending. The cable is direct buried rated, allowing for installation

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Direct Buried Double HDPE Sheath 3000m Optical Cable

Hongan Optical Cable took the first lead to pass the ISO9001 quality system, ISO14001 environment management system, OHSAS18001 occupational

How Far Can a Fiber Optic Cable Be Run? The

Fiber optic cables have revolutionized modern communication networks by enabling blazing-fast data transmission across vast distances.

Fiber Optic Cable Cost Guide 2026

Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for trenching, splicing, and termination. This guide presents ranges in USD and practical price

Direct Buried Double HDPE Sheath 3000m Optical Cable

GYFTY53 uses a Fiber Reinforced Plastic (FRP) as central strength member to provides anti-electromagnetic interference property. The armored structure

What Is the Maximum Distance for A Fiber Optic Cable?

The maximum distance for a fiber optic cable depends on several factors, including the type of fiber used, the data transmission speed, the quality of the equipment, and whether or not amplification or

Fiber optic cable 3000m

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Fiber Optic Cable Range: Comprehensive Guide

Fiber optic cable range varies depending on whether you're using single or multimode fiber. Learn the potential for both cable types.

Cost of Fiber Optic Cable: Pricing Guide (2026)

Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts total project costs overall.

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