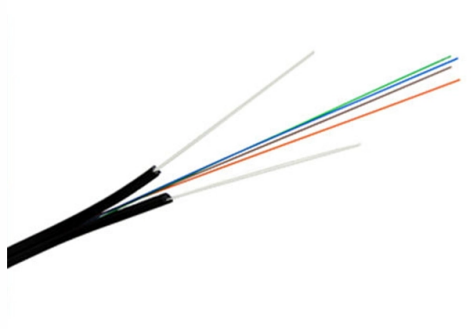


24-core ASS fiber optic cable over one meter long



Overview

Discover 24 core fiber optic cable for FTTH & aerial use. CE/ROHS certified, G652D/G657A2 fibers, armored outdoor durability.

Key Takeaways

A 24-core ADSS (All-Dielectric Self-Supporting) fiber optic cable is a self-supporting, non-metallic cable designed for aerial and outdoor installations, capable of spanning long distances without external support. Cable Construction and Features

A 24-core ADSS fiber optic cable consists of 24 single-mode or multimode fibers encased in a loose tube filled with water-blocking compound, reinforced with two layers of aramid yarn for tensile strength, and protected by a polyethylene (PE) or anti-tracking (AT) outer sheath. The cable is non-metallic, allowing it to be installed near high-voltage lines without risk of electrical conduction. Its design supports self-weight spanning, making it suitable for aerial installations across rivers, valleys, or high-voltage transmission lines.

Length and Installation



While the user specifies a cable over one meter long, ADSS cables are typically manufactured in long spans ranging from 100 meters to over 1000 meters, depending on installation requirements . The cable's tensile strength and controlled stranding ensure it can withstand environmental stresses such as wind, ice, and temperature variations. Installation does not require lashing wires or messenger cables, simplifying deployment on poles or towers .

Fiber Types and Performance

- Single-mode fibers (SMF, e.g., G.652D or G.657A1) are ideal for long-distance communication with low attenuation and high precision .
- Multimode fibers (MMF, e.g., OM3, OM4, OM5) are suitable for shorter distances, such as within buildings or campus networks .
- The cable can support high data rates and is suitable for telecom, enterprise networks, and smart city infrastructure .

Environmental and Mechanical Considerations

- Outdoor suitability: Resistant to moisture, UV, and temperature fluctuations.
- Mechanical protection: Aramid yarn reinforcement provides high tensile strength; armored variants are available for rodent or mechanical protection .
- Voltage tolerance: PE sheath for voltages $\leq 110\text{kV}$; AT sheath for higher voltages .

Pricing Factors

The cost per meter depends on:

- Fiber type (single-mode vs multimode)
- Cable construction (loose-tube, armored, aerial)
- Sheath material (PE vs AT)
- Brand and quality of fibers (e.g., Corning, YOFC, Fujikura)
- Environmental specifications and installation requirements . In summary, a 24-core ADSS fiber optic cable over one meter long is a versatile, self-supporting cable suitable for aerial and outdoor installations, offering high tensile strength, environmental resistance, and compatibility with both single-mode and multimode fibers for long-distance or enterprise network applications .

Article Content

24-Strand Fiber

24-Strand with Furcation Tubing Singlemode 9/125 Fiber Distribution Cable; Choose Connectors, Jacket Type, and Optional Pulling

24 Core Fiber Optic Cable

Discover 24 core fiber optic cable for FTTH & aerial use. CE/ROHS certified, G652D/G657A2 fibers, armored outdoor durability.

Fiber-optic communication

An optical fiber patching cabinet. The yellow cables are single-mode fibers; the orange and blue cables are multi-mode fibers:

Fiber Optic Cable Buying Guide

Fiber Optic Cable Buying Guide Understand how to choose fiber optic cable by comparing single-mode vs. multimode, network

24 Cores Distribution Fiber Optic Cable

SABA 24 cores distribution fiber optic cable is constructed with loose tube fibers, aramid yarn strength member, LSZH is metal free

Fiber Optic Cables and Extensions

Transmit data over long distances while retaining signal power with fiber optic cables. This innovative material is efficient, safe and

24 Fiber ADSS Cable, 24 Strand ADSS Fiber, 24 Fiber ADSS Aerial

American Tech Supply Can Deliver ADSS Fiber Cable, Ribbon Cable, all armored, Gel and Gel Free singlemode fiber

24 Core Fiber Optic Cable GYTY53 Outdoor Armored Double Jacket

24 Core GYTY53 fiber optic cable is used for direct buried underground, it suit for long distance and LAN fiber communications, we

Kaichuangtong Single-mode Outdoor Fiber Optic Cable GYTA-24

With 24 single-mode fiber cores, this cable delivers exceptional data transmission quality and reliability, making it ideal for outdoor

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