

Function of 24-core ASS optical cable



Summary of Content

A 24-core ADSS optical cable provides high-capacity, self-supporting fiber optic communication for aerial installations, especially along high-voltage power lines, without requiring metallic support structures.

Core Function

The 24-core ADSS (All-Dielectric Self-Supporting) optical cable is designed to transmit large volumes of data over long distances while being installed in aerial environments. Its self-supporting dielectric construction allows it to be mounted directly on utility poles or transmission towers without the need for additional messenger wires or metallic components, making it safe for high-voltage areas and resistant to electromagnetic interference .

Structure and Design

- **Fiber Composition:** Contains 24 single-mode optical fibers, typically ITU-T G.652.D, arranged in loose tubes filled with water-blocking compounds to prevent moisture ingress .
- **Reinforcement:** Layers of aramid (Kevlar) yarn provide tensile strength, allowing spans of over 1 km between supports .
- **Outer Sheath:** Polyethylene or anti-tracking sheaths protect against UV, water, and environmental stress, ensuring durability in harsh conditions .
- **Lightweight:** The dielectric design reduces weight, simplifying installation and minimizing load on towers .

Applications

Article Content

24 Cores ADSS Fiber Optic Cable Price & Datasheet

Overview: The 24 Cores ADSS (All-Dielectric Self-Supporting)

Cable Optics 24 Cores: Key Features, Material Grades, and Practical ...

The primary function of a 24-core fiber optic cable is to enable high-capacity, low-latency data transmission across diverse network

ADSS 24F Cable Specifications | PDF | Optical Fiber | Electrical ...

It highlights the cable's durability, installation advantages, and optical characteristics, including attenuation and dispersion metrics.

GL FIBER 24 Core ADSS Fiber Optic Cable, G652D, 120m Span

PE single jacket with additives makes a resistant, durable and easy to strip cable, providing superior protection against UV radiation,

ADSS Fiber Optic Cable | All-Dielectric Self-Supporting Aerial Cable ...

AFL-ADSS (All-Dielectric Self-Supporting) fiber optic cable is a non-metallic cable which supports its own weight without the use of

Technical Specifications

This specification covers the construction all dielectric self-supporting Optical Fiber Cable (ADSS) properties for outdoor application.

ADSS 24 CORE FIBER OPTIC CABLE HYU-CAB-ADSS24C002

Application Adopted to indoor or outdoor distribution; Small cable size, light weight; With excellent waterproofing performance. Kevlar

Introducing the ADSS Cable 24 Core

High Fiber Capacity: With 24 cores, this cable provides ample bandwidth for high-speed data transmission, making it

24-Core ADSS Optical Fiber Cable

The 24-Core ADSS (All-Dielectric Self-Supporting) Optical Fiber Cable is an all-dielectric, self-supporting aerial fiber optic solution

ADSS 24F Cable Specification Overview | PDF | Optical Fiber

Key features include a lifespan over 30 years, spans over 1000m, installation without power shut off, high tensile strength member,

Contact Us

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