

ADSS24B110kN Optical Cable Technical Parameters



AI Overview

The ADSS24B110kN is a 24-core, all-dielectric self-supporting optical fiber cable with a rated tensile strength of 110 kN, designed for aerial installation in high-voltage environments.

General Description The ADSS24B110kN cable is an all-dielectric, self-supporting (ADSS) optical fiber cable suitable for medium to long-span aerial installations, particularly over power lines where metallic components are not allowed. It contains 24 single-mode optical fibers (6 fibers per tube) compliant with ITU-T G.652.D standards. The cable is designed to operate without external support structures, making it ideal for installation on utility poles or transmission lines.

Mechanical Properties

- Rated Tensile Strength (RTS/UTS):** 110 kN, ensuring the cable can withstand high mechanical loads during installation and operation.
- Ultimate Tensile Strength (UTS):** The actual breaking force is $\geq 95\%$ of the calculated RTS, providing a safety margin for long-span installations.
- Self-supporting Design:** Incorporates dielectric strength members (e.g., aramid yarn) to maintain structural integrity without metallic messengers.
- Span Capability:** Suitable for spans ranging from 100 m up to 600 m depending on environmental conditions and installation hardware.

Environmental and Operational Parameters

- Temperature Range:** Designed to operate over a wide temperature range typical for outdoor aerial environments.
- Water Resistance:** Cable ends are sealed with protective caps to prevent moisture ingress, and the cable meets IEC 60794-1-F5 water penetration standards.
- UV and Weather Resistance:** Outer sheath materials are selected for long-term exposure to sunlight and harsh weather conditions, ensuring a service life of 25 years or more.

Construction and Standards

- Fiber Type:** Single-mode ITU-T G.652.D
- Core Arrangement:** 24 fibers in loose tubes, color-coded for identification
- Outer Sheath:** P...

Article Content

ADSS24-core optical cable model parameters

It details optical characteristics, cable structure, mechanical and environmental tests, and packing requirements. The cable is designed for use in telecommunication and power applications, ensuring ...

ADSS Cable Specifications G652D Fiber | PDF | Optical Fiber ...

ADSS optic fiber cable 48 G652D core - Free download as PDF File (.pdf), Text File (.txt) or read online for free. This document provides specifications for an all dielectric self-supporting aerial cable (ADSS

Key Technical Parameters of ADSS Optical Cables

For existing power lines, ADSS optical cables serve as an "addition." Consequently, ADSS cables must be designed to adapt as closely as possible to the original line conditions. These

ADSS 24F Cable Specification Overview | PDF | Optical Fiber

This document provides specifications for an all dielectric 160m span fiber optic cable with 24 fibers. Key features include a lifespan over 30 years, spans over 1000m, installation without power shut off, high

ADSS-24B1.3-PE-100M Cable Specifications

This document provides specifications for an ADSS-24B1.3-PE-100M fiber optic cable. The cable contains 24 single-mode fibers within four loose tubes, with an outer sheath made of polyethylene.

ADSS (Long Span)

Fiber reinforced plastic central strength member, loose tube stranded, PE sheath all-dielectric, self-supporting aerial cable.

12/24/48 Core ADSS Optical Fiber Cable

Explore everything about ADSS fiber optic cables including the full form, core types (12/24/48 core), major brands, specifications, span length, sheath materials, and installation accessories.

Technical Specifications

This specification covers the construction all dielectric self-supporting Optical Fiber Cable (ADSS) properties for outdoor application. The optical fiber cable contains 24 cores (6cores/tube) single

Technical Parameters of ADSS Fiber Optic Cables

Therefore, the main parameters of ADSS cables are in line with the regulations of power overhead lines.

OPTICAL FIBER CABLE SPECIFICATION (ADSS-Span= 100m)

5. Optical Fiber Cable Characteristics 5.1 The Mechanical and Environmental Performance of the Cable ... 5.2 Installation Conditions

Spoke

II. Key Technical Parameters ADSS optical cables operate in an overhead configuration characterized by long-span, two-point support (typically spanning hundreds of meters, or even

ADSS Fiber Optic Cable Specifications

This document specifies the technical requirements for an ADSS (All-Dielectric Self-Supporting) fiber optic cable that can span 80 meters. It outlines the cable construction, fiber specifications, and

Ficha_AR-1NSU-ADSS-PE-50M-xxF-G652D

SPECIFICATION 1. General This specification covers the design requirements and performance standard for the supply of optical fibre cable in the industry. It also includes ARTIC premium

Fiber optic cable Catalog

Fiber Optic Cables Technical Catalogue FTTH Optic Fiber Micro Cable Sample Fiber Optic Micro Cable Optical Fiber Core Waterproof thixotropic jelly PBT Tube (Loose Tube) Non_metallic strength

Optical Fibre Cable Technical Specification

Optical fibre cables supplied in compliance with this specifications is capable to withstand the typical service condition for a period of twenty-five (25) years without detriment to the operation

ADSS optical fibre cable

These FlexTube® outdoor All Dielectric Self-Supported (ADSS) optical fibre cables are optimized for aerial installation and for blowing or pulling into ducts. Please contact your sales representative for

Multi Loose Tube ADSS fiber Cable (4-144 fibers)

Multi Loose Tube ADSS fiber Cable (4-144 fibers) Features Color coded fibers Lightweight and compact, all dielectric construction PE inner and outer jacket

24 Core ADSS Fiber Cable, ADSS-24B1-PE-100 Technical Parameters

24 core ADSS cable is widely used in power engineering, which can be directly reflected from customer demand to customer inquiry. Of course, there are many specifications of 24-core ADSS cables. Let's

ADSS-SS-200m-24/48B1

3.1 Technical Characteristics The unique second coating and stranding technology provide the fibres with enough space and bending endurance, which ensure good optical property of the fibres in the

ADSS Fiber Optic Cable Parameters

To ensure optimal performance and network durability, It is essential to understand the key parameters of ADSS fiber optic cable.

ADSS-24B1.3-PE-100M Cable Specifications | PDF

The cable contains 24 single-mode fibers within four loose tubes, with an outer sheath made of polyethylene. Key parameters include a rated tensile strength of

Loose Tube Armoured Cable, ADSS shotgun protected

These cables are normally used in medium spans with high risk of hunting shots hazard. Cable is shotgun protected. Cable must be installed with qualified fittings. All sizes and values without

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