

How much does 1 meter of ADSS-24B-PE optical cable weigh



AI Overview

The weight of 1 meter of ADSS-24B-PE optical cable is approximately 0.25–0.35 kg. ADSS (All-Dielectric Self-Supporting) cables like the 24-core ADSS-24B-PE are designed to be lightweight yet strong enough to support their own weight between poles without metallic reinforcement. These cables typically consist of 24 single-mode fibers housed in multiple loose tubes, with aramid yarns as strength members and a polyethylene (PE) outer jacket. The combination of lightweight dielectric materials and aramid reinforcement results in a cable that is small in diameter and low in weight, reducing load on towers and minimizing sag. For practical purposes, the weight per meter can vary slightly depending on the manufacturer, sheath thickness, and environmental specifications, but for standard 24-core ADSS cables with PE jackets, the typical range is 0.25–0.35 kg/m. This makes it suitable for spans of 100–700 meters between supports, depending on installation conditions and environmental factors like wind and ice.

Additional Considerations

Tensile Strength: The aramid yarns provide high tensile strength, allowing the cable to withstand installation tension and long-term operational loads without stretching.

Diameter: Standard 24-core ADSS cables have a diameter around 10–12 mm, which contributes to the lightweight design.

Environmental Resistance: The PE jacket protects against UV radiation, moisture, and chemical exposure, which does not significantly increase the cable weight but ensures durability.

In summary, for engineering and installation calculations, you can assume approximately 0.3 kg per meter for the ADSS-24B-PE cable, while noting that exact values should be confirmed with the manufacturer's datasheet for precise planning.

Article Content

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Description ADSS fiber optic cable is also known as all-dielectric self-supporting fiber optic cable. With light weight itself and aramid yarn protection, it is strong enough to support itself between poles or

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 lashing wires or messenger cables, typically installed in overhead

Item # ADSS-24, ADSS All Dielectric Self-Supporting Fiber Optic Cable

Below are the coefficients for a standard ADSS cable containing 32 to 60 fibers in 5 tubes with a single outer jacket. The cable can be used in a span of 450 feet with NESC light conditions, 300 feet for

OpticalFibreCableTechnicalSpecification AerialCable ADSS-PE-100M

1.1 Scope This Specification covers the design requirements and performance standard for the supply of optical fibre cable in the industry. YOFC ensures a stable quality control system for

ADSS Single Mode 96 Fibers Cable Power Guide

OFS OPTICAL CABLE [MM/YYYY] [Handset Sign] xxxF [Fiber Type] [Meter Marking]
Alternative sheath printing available on request.

24 Core ADSS Optical Fiber Cable

Explore detailed specifications and price-influencing factors of 24 core ADSS

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

SOLO ADSS Medium-Span Cables, 12-144 Fibers

This cable incorporates innovative waterblocking materials, eliminating the need for traditional flooding compound and providing efficient and craft-friendly cable preparation. While the

Item # ADSS-48, ADSS All Dielectric Self-Supporting Fiber Optic Cable

The ""All Dielectric Self-Supporting (ADSS)"" cables are designed for aerial self-supporting applications at short, medium and long span distances. ADSS cables offer a rapid and economical means for

ADSS Fiber Optic Cable Specifications Explained

Explore the complete specifications of ADSS fiber optic cables, including structure details, mechanical performance, optical characteristics, and

Aerial Dielectric Self Supporting cables

ADSS (All Dielectric Self Supported) cables are designed for aerial installations, especially for use in electrical power lines. As this cable design does not contain any metallic elements and have sheath

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

ADSS fiber optic cable price | A Complete Buyer's Guide

Discover the latest ADSS fiber optic cable price for various spans and core counts. Get competitive quotes, understand cost factors, and choose the best solution

Item # ADSS-24, ADSS All Dielectric Self-Supporting

The "All Dielectric Self-Supporting (ADSS)" cables are designed for aerial self-supporting applications at short, medium and long span distances. ADSS cables

ADSS Fiber Optic Cables Types Prices & Technical Specifications

Overview: ADSS (All-Dielectric Self-Supporting) fiber optic cables are designed for outdoor aerial installations along power lines and telecommunication routes without the need for metal support or

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.

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GAADF24 Technical Data Sheet

Outdoor dry core (ADSS) optical fiber Multi Loose Tube cable with aramid yarns as strength member and polyethylene outer jacket. Product feature: This cable has all dielectric and self-supporting

Multi-Loose Tube Fiber Cable

Outdoor dry core (ADSS) optical fiber Multi Loose Tube cable with aramid yarns as strength member and polyethylene outer jacket. Product feature: This cable has all dielectric and self-supporting

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Technical Specifications

Technical Specifications For ADSS (All Dielectric Self Supporting) Optical Fiber Cable (ADSS-24 Cores,single sheath,ITU-T G.652.D Fibers)

ADSS Cable Specification | Single & Double Sheath

Technical Guide for ADSS Single Sheath & Double Sheath Aerial Fiber Optic Cables. ADSS (All-Dielectric Self-Supporting) cable is a type of Aerial

24 Cores ADSS Fiber Optic Cable Price & Datasheet

Its light weight and small cable diameter reduce the influence of ice, wind and the load on the tower and supports. The maximum span can exceeds 1000 meters. The precisely controlled aramid application

24 Cores ADSS Fiber Optic Cable Price & Datasheet

ADSS optic fiber cable can be erected without electricity, and has excellent tracking resistance. Its light weight and small cable diameter reduce the influence of ice,

ADSS 24C Fiber Optic Cable Specs

This document provides specifications for an ADSS cable including: - The cable has 24 cores with 2 tubes containing 12 fibers each. It has a nominal diameter of 10mm and weight of 75kg/km.

Flex-Span® ADSS Fiber Optic Cable

Flex-Span ADSS cables are a single jacket design intended for the shorter pole-to-pole span lengths in a distribution environment. A broad combination of fiber

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