

# How much does an AdSS24 core optical cable weigh

## Article Overview

A typical 24-core ADSS optical fiber cable weighs approximately 0.8 to 1.2 kg per meter, depending on the manufacturer and specific construction.

## Cable Construction and Weight Factors

The 24-core ADSS cable consists of six loose tubes with four fibers each or two tubes with 12 fibers, filled with water-resistant gel, wrapped with aramid yarns for tensile strength, and protected by a polyethylene (PE) outer sheath. The all-dielectric, self-supporting design allows the cable to span between poles without metallic support, which keeps the cable relatively lightweight compared to OPGW or metallic cables. Key factors affecting weight include:

- o Number of fibers and tubes: More fibers or tubes slightly increase weight.
- o Sheath material and thickness: PE or UV-resistant jackets add 0.1-0.2 kg/m depending on thickness.
- o Aramid yarn content: Provides tensile strength; higher content increases weight.
- o Water-blocking compounds: Gel or dry fillers add minor weight.

## Typical Weight Range

For standard 24-core ADSS cables:

- o Weight per meter: ~0.8-1.2 kg/m
- o Weight per 4,000 m drum: ~3,200-4,800 kg, depending on exact design and manufacturer. This weight range is consistent with cables designed for long spans (up to 700 m between supports) and outdoor installation in high-voltage environments.

## Practical Considerations

- o When planning installation, consider tensile strength and sag, as the cable's weight contributes to tension on poles or towers.
- o For transport and handling, drum weight is critical; drums are typically fitted with caps to prevent moisture ingress.
- o Always verify the manufacturer's datasheet for the exact weight, as variations in tube count, sheath thickness, and filler type can affect the final weight. In summary, a 24-core ADSS cable is lightweight for aerial deployment, with a typical weight of 0.8-1.2 kg per meter, making it suitable for long-span installations without additional support structures.



# How much does an AdSS24 core optical cable weigh

GL FIBER" ADSS cables offer a rapid and economical means for deploying optical fiber cables along existing aerial rights-of-way.

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

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

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

Optical fibre cables supplied in compliance with this specifications is capable to withstand the typical service condition for a period of

The ADSS Cable 24 Core stands out as a premier solution, combining cutting-edge design with unmatched durability

ADSS 24 CORE FIBER OPTIC CABLE HYU-CAB-ADSS24C002 Cable Description The fibers are positioned in a loose tube made of

Browse ADSS All Dielectric Self-Supporting Fiber Optic Cable in the American Wire Group catalog including Item #,ADS

4 1.4 Prysmian ADSS fiber optic cables meet or exceed IEEE 1222-2011 "Standard for Testing and Performance for

Related keywords: ADSS cable 48 core datasheet, all-dielectric aerial fiber optic cable, self-supporting optical cable, power line

This document provides specifications for an ADSS cable including: - The cable has 24 cores with 2 tubes containing 12 fibers each.

This document provides specifications for an all dielectric 160m span fiber optic cable with 24 fibers. Key features include a lifespan

Recommended Installation Procedures for All-Dielectric, Self-Supporting (ADSS) Fiber Optic Cable AFL-ADSS&#174; Fiber Optic Cable

## How much does an AdSS24 core optical cable weigh

All-dielectric self-supporting cable All-dielectric self-supporting (ADSS) cable is a type of optical fiber cable that is strong enough to

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

ADSS (All-dielectric Self-supporting) optical fibre cable is a type of self-supporting aerial fiber optic cable designed for

Web: <https://kremgroup.co.za>

