

How many tons is one reel of 12-core optical fiber cable



Overview

Multi-Loose Tube Fiber Cable Product feature: This cable has improved rodent protection by Corrugated Steel Tape (Full Rodent Protected). Existing out of 6.

Key Takeaways

A standard 12-core armored optical fiber cable reel typically weighs between 0.5 and 2 tons, depending on cable type, length, and construction. Factors Affecting Cable Reel Weight

The total weight of a 12-core optical fiber cable reel depends on several factors:

- Cable Construction: Armored cables with steel tape or double PE sheaths are heavier than non-armored cables due to the added metal layers and protective jackets. Loose-tube, gel-filled designs with central strength members also add weight.
- Cable Length: Reels can range from 500 meters to 3 kilometers or more. Longer reels naturally weigh more, as weight is proportional to length.
- Materials: Steel-reinforced cores, polyethylene sheaths, and gel-filled tubes contribute significantly to the overall mass.

Typical Weight Estimates

- Outdoor Armored 12-Core Cable (e.g., GYTA53 type): Approximately 10-15 kg per 100 meters. A 2 km reel would weigh roughly 200-300 kg (0.2-0.3 tons).

- **Heavier Double-Armored Cables:** Some fully armored, direct-burial 12-core cables can weigh 50–60 kg per 100 meters. A 2 km reel could weigh 1–1.2 tons .
- **Smaller Indoor or Riser-Rated Cables:** Lightweight 12-core cables, such as PVC-jacketed indoor/outdoor types, may weigh 5–8 kg per 100 meters, giving a 1 km reel a weight of 50–80 kg (0.05–0.08 tons), .

Practical Considerations

- **Shipping and Handling:** Large armored reels may require forklifts or cranes due to their weight exceeding 1 ton.
- **Installation:** Heavier reels are typically unwound using cable rollers or specialized equipment to prevent damage to the fiber.

Conclusion

While the exact weight varies by manufacturer and cable type, a full reel of 12-core optical fiber cable generally ranges from 0.5 tons for lighter indoor/outdoor cables to over 2 tons for fully armored, long outdoor reels . For precise planning, always refer to the manufacturer's datasheet for the specific cable model.

Article Content

Multi-Loose Tube Fiber Cable

Product feature: This cable has improved rodent protection by Corrugated Steel Tape (Full Rodent Protected). Existing out of 6 tubes

Fiber Optic Cable Reel Sizes

Discover our Fiber Optic Cable Reels. Find out about our cable drum dimensions, weight, length, standard spool and wooden cable

Fiber Optic Cable Reel Specifications: Diameter, Weight, and Transport

Selecting the correct fiber optic cable reel is not simply a matter of ordering enough footage. Reel diameter, traverse width, flange

12-Core Fiber Optic Cable Specifications | PDF | Optical Fiber ...

This document summarizes the technical specifications of a fiber optic cable. It includes details about: - The cable structure including

Reel Calculator

Accurately calculate the amount of material wound on a reel or spool, including wire, cable, and film. This advanced reel calculator

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Technical data includes 12 fibers, 6 fibers per tube, cable diameter of 13.1mm, weight of 192kg/km, minimum bending radii,

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A Method to Calculate the Capacity of a Reel or

It is often necessary to determine how much of a given cable or wire will fit onto a spool or reel. This article provides a relatively

12 Cores Distribution Fiber Optic Cable

SABA 12 cores distribution fiber optic cable is constructed with tight buffered fibers, aramid yarn strength member, LSZH is metal

Fiber Optic Cable Sizes: A Comprehensive Analysis

Core Sizes and Performance The core is the main component of fiber cable because it's the transparent area where

Cable Reel Capacity Calculator || Drum Capacity Calculator

With our easy cable reel capacity calculator, you can calculate the maximum drum capacity or the length of a cable in a certain reel

CABLE REELS WEIGHTS & DIMENSIONS

CABLE REELS WEIGHTS & DIMENSIONS 805-002-000 Van Damme VDSP240 240mm flange plastic cable reel ... Weight (Kg)

Fiber-optic cable

A fiber-optic cable, also known as an optical-fiber cable, is an assembly similar to an electrical cable but containing one or more

How to Choose Fiber Optic Cables

Fiber, unlike copper wire, is usually purchased for a specific job direct from the factory. These can be huge – up to and exceeding

Reel Capacity Calculator

A cable reel calculator is a tool designed to determine how much wire or cable can be wound onto a reel or drum. Key aspects of a

1000ft Black 12 Fiber Outdoor Singlemode Fiber Optic Cable

Our black fiber optic cable is composed of 12 singlemode fibers (9 micron core) inside a water blocking Aramid yarn wrapped in a

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

