

Length of fiber optic cable reel

Article Overview

The maximum length of a fiber optic cable reel depends on fiber count and cable type, ranging from 20,000 feet for low-count cables to 6,000-8,000 feet for high-count backbone cables.

Typical Reel Lengths by Fiber Count

- o 12-48 fibers (feeder or short distribution cables): Manufacturers commonly spool up to 20,000 feet, with some offering 25,000 feet on request, though longer reels may incur higher costs and logistical challenges .
- o 96-288 fibers (mid-count distribution cables): Practical maximum lengths are typically 10,000-15,000 feet, as larger diameters and heavier jackets increase reel weight to 2,200-2,600 lbs, requiring specialized handling equipment .
- o 432 fibers and above (high-count backbone cables): Maximum reel lengths are usually 6,000-8,000 feet, with weights exceeding 4,000 lbs for very high fiber counts, making transport and installation more complex .

Factors Affecting Maximum Reel Length

- o Cable Diameter and Jacket Weight: Thicker or armored cables reduce the amount that can be safely spooled.
- o Reel Capacity: Standard wooden, metal, or plastic reels have physical limits on diameter and width, which constrain cable length .
- o Handling and Installation: Heavier reels require cable trailers, capstans, or full cable-placing machines; otherwise, mid-route splices may be necessary .
- o Manufacturer Specifications: Standard catalog reels may be shorter than the maximum possible; longer reels often require special orders with extended lead times .

Example Specifications

- o A large fiber optic reel may have an outer diameter of 36 inches, inner diameter of 6 inches, and width of 24 inches, holding up to 4 kilometers (?13,123 feet) depending on cable type and diameter .
- o Smaller reels for portable applications may hold only a few hundred meters, while heavy-duty reels for backbone cables are designed for maximum durability and transport efficiency .

Practical Recommendation

Always confirm the maximum available reel length with the manufacturer during the design phase, as exceeding practical limits can complicate staging, transport, and installation. Planning reel lengths in advance also helps minimize unnecessary splices and ensures efficient deployment .

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Customizable to your specification - Cable reel R-105, for instance, can be tailored in terms of diameter, colour (green, black, sand),

Calculate actual total cable weight and compare to Allowable Cable Weight shown.

It has large capacity for optical fiber cables of different diameters, such as 3.0mm diameter can wind 3600M, 10.0mm diameter can

In table 2a and 2b, the maximum nominal capacity of the reels is given as a function of the cable diameter in the table below. It is not

Foss provides durable fiber optic cable reels for mobile, tactical, and industrial applications. Designed for

Learn how to plan fiber optic cable drum length, reel allocation, splice points, installation allowance, transport limits

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

Standard Manual Cable Reels *Click on the images for larger view* Princetel offers a complete line of

Fiber optic cables are composed of one or more transparent fibers enclosed in protective coverings and strength members. Fiber

With a variety of cable assembly options and configurations, flexibility is provided to meet the specific requirements of each

How fiber cable reel length affects splice count and cost -- a guide to reel planning, slack loops, and minimizing field

The ARES reels are made with a chemical and impact resistant polymer providing a rust-resistant, lightweight and durable reel for

It is available in three sizes, accommodating 100, 250, or 500 meters of cable. The specified capacity is

The OCC MARS reel can be used with simple deployable axials ("broom sticks") or with integrated A

Cable Length: Up to 4 kilometers (depending on cable type and diameter) Material: Wood or metal for



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durability

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

