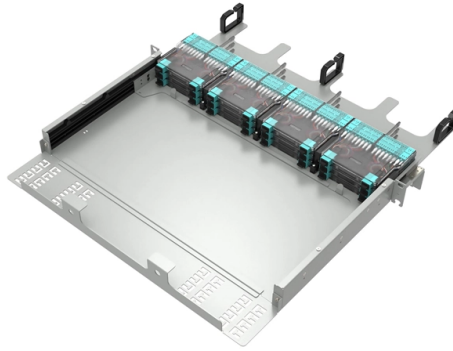


How many meters is one reel of optical fiber cable



Overview

Overview The Stran Technologies Shane™ RFO-300 cable reel holds 300 meters of 6mm overall diameter cable.

Key Takeaways

The length of optical fiber cable on a reel typically ranges from 230 meters to 1500 meters, depending on cable diameter and reel type. Typical Reel Capacities

- Small-diameter cables (3.0mm): Reels can hold up to 600-1000 meters, with some specialized reels accommodating 1500 meters for outdoor or long-distance applications (UnitekFiber) .
- Medium-diameter cables (5.0mm): Reels generally store around 230 meters due to the larger cable thickness (UnitekFiber) .
- Larger tactical or broadcast cables (6-9mm): Industrial reels like the Shane RFO-500 and RFO-1000 can hold 500-1000 meters of 6mm cable, while the RFO-3-2000 can store 1300 meters of 9mm cable (Shane Industries) .

Factors Affecting Reel Capacity

- Cable Diameter: Thicker cables occupy more space, reducing the total length per reel.
- Reel Size and Design: Full steel or heavy-duty reels can accommodate longer lengths safely, while portable reels are optimized for ease of handling.



- Application: Outdoor or long-distance deployment reels often have higher capacities and features to prevent tangling, whereas small patchcord reels are designed for short-term or indoor use.

Practical Considerations

- Always check the manufacturer's specifications for the exact reel and cable type.
- Ensure the reel design supports the intended deployment environment (e.g., rugged outdoor use, tactical operations, or data center cabling).
- Proper winding and handling prevent fiber damage and maintain signal integrity. In summary, optical fiber cable reels can range from a few hundred meters to over 1500 meters, with the exact length determined by cable diameter, reel design, and intended use .

Article Content

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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

RFO-100-5

The RFO-100-5 cable reel holds 100 meters of 7mm overall diameter cable. The full steel construction offers strength and durability

Corning Optical Bare Fiber (singlemode, OM1, OM2, OM3, OM4)

Corning SMF-28e+LL singlemode bare optical fiber in custom length, MOQ: 1001m, Maximum length: 50.4km (in reel) G-SMF

Fiber Optic Selection Guide

Singlemode fiber optic cables are best suited for high bandwidth and long-distance applications, while multimode is used for shorter

What's the length of a typical reel of OSP cable?

I'm trying to understand how many splices I should expect (roughly) in a "typical" length of OSP fiber for a utility type pull (144 OS2,

Fiber Optic Cable Buying Guide

Fiber Optic Cable Buying Guide Understand how to choose fiber optic cable by comparing single-mode vs. multimode, network

The FOA Reference For Fiber Optics -Outside Plant Construction ...

If the cable and reel look undamaged, a sampling of one fiber per buffer tube or ribbon may be adequate. Pre-test the cable with a

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High Performance Fiber Optic Ready Cable Reel-by-TecNec

About this item JackReel-F4 is the super rugged, super lightweight high impact broadcast cable reel that's fiber ready. Holds up to

Military Cable Reel, 1000 Meter | Shop | Cables Plus USA

Overview The RFO-1000 cable reel holds 1000 meters of 6mm overall diameter cable. The full steel construction offers strength and

Calculate the number of meters in a roll of fabric or reel of cable

In industry, sometimes we look at a roll of fabric or a reel of cable and we need to get an idea of how many meters

How Far Can a Fiber Optic Cable Be Run? The Practical Limits

The Theoretical Limits of Fiber Optic Range In a perfect, lab-like setting without signal degradation, fiber optics could

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