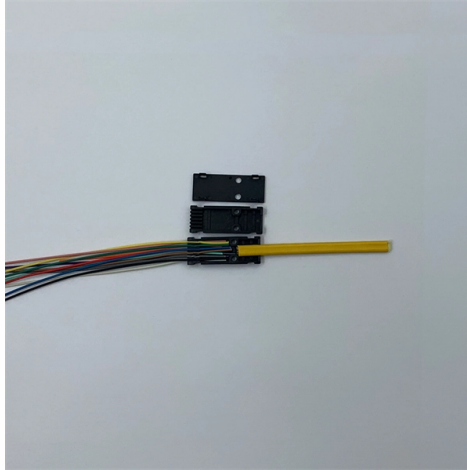


12-core optical cable reel diameter



Overview

Excellent crush and tensile resistance. Available in Single mode or Multi mode according to the demand of the customers.

Key Takeaways

The diameter of a 12-core optical cable reel typically ranges from 600 mm to 1,200 mm, depending on cable type, length, and reel construction.

The reel diameter for a 12-core optical cable depends primarily on the cable outer diameter, the length of cable on the reel, and the minimum bend radius required to prevent optical loss or damage during storage and installation . For example, a typical 12-core loose tube outdoor cable has an outer diameter of approximately 6-10 mm, while tight-buffered indoor cables may be slightly smaller .

Industry Guidelines

- Minimum bend radius: For a loaded cable, the minimum bend radius is generally 10 times the cable outer diameter, and for a stored or unloaded cable, it is 20 times the outer diameter . This ensures the cable is not stressed and prevents macrobend attenuation.
- Reel construction: Reels are commonly made from wood, metal, or heavy-duty plastic, and their diameter is influenced by the flange size and barrel width, which must accommodate the total cable length .



- Typical reel sizes: Small reels for short indoor runs may have diameters around 600–800 mm, medium reels for standard outdoor installations are often 900–1,000 mm, and large reels for long-distance backbone or outside-plant cables can exceed 1,200 mm .

Practical Considerations

- Cable length: Longer cable lengths require larger reel diameters to maintain the minimum bend radius.
- Installation environment: Indoor reels may be smaller due to space constraints, while outdoor or industrial reels are larger to handle heavier cable loads.
- Fiber type: Single-mode (OS2) and multimode (OM3/OM4) fibers have similar reel requirements, but tighter bend-sensitive fibers may require slightly larger reels to prevent stress . In summary, while there is no single fixed diameter for a 12-core optical cable reel, most standard reels fall between 600 mm and 1,200 mm, with the exact size determined by cable diameter, length, and installation requirements .

Article Content

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

Fiber optic reels are manufactured in wood, metal, or heavy-duty plastic, and are defined by three primary dimensions: flange

Cable Reel Sizing Chart | Shane Industries

Compare specific cable minimum bend radius to Minimum Cable Bend Radius for reel shown. Cable Weight may be too high for the

12 Cores Distribution Fiber Optic Cable

Excellent crush and tensile resistance. Available in Single mode or Multi mode according to the demand of the customers.

2121112-4 | O-012-CA-8M-M12NS/30G/GY | CommScope

Fiber Optic Outside Plant Cable, 12-core, ECSS (Electro Chrome Coated Steel) Armored, Loose-tube, Gel-filled, 9/125 µm, OS2,

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

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12-Core Fiber Optic Cable Specifications This document summarizes the technical specifications of a fiber optic cable. It includes

Reel Dimensions and Volumes

Cable manufacturing and cable processing machinery, wire stripping equipment is sold and serviced through our wire and cable

Reel Dimensions

Reel Dimensions Have a question? Optical Fiber Specifications Fiber Optic Cable Color Coding Reel Capacity Calculator Cable

Procedure for Cutting and Respooling Fiber Optic Cable

4.2 The take-up reel must have sufficient drum size to maintain cable minimum bend radius and to have enough capacity for the

Ribbon Fiber Optic Cable

Fiber Optic Ribbon Cable Ribbon cables offer higher fiber counts and greater fiber density than any other cable construction

12 Cores Distribution Fiber Optic Cable

Application.and Properties: SABA 12 cores distribution fiber optic cable is constructed with tight buffered fibers, aramid yarn strength

GYTY53 12-Core Fiber Cable Specs | PDF | Optical Fiber | Cable

This document provides the product specification for a 12 core steel fiber optic cable. It describes the cable's components such as

FAQ: Cable drums weights and dimensions | Eland Cables

Answering the frequently asked question: what are standard cable drum weights and dimensions. Cable drums come in many

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24 Core and 48 Core Fiber Optic Cable

24 Core and 48 Core Fiber Optic Cable Fiber optic cable is a cable containing one or multiple optical fibers that are used to transmit

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

