ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Dimensions of a 48-core optical cable reel



Overview

Fiber optic cable is a cable containing one or multiple optical fibers that are used to transmit the signal.

Key Takeaways

A 48-core optical cable reel typically ranges from 800 mm to 1,200 mm in diameter and 400 mm to 600 mm in width, depending on the cable type and reel material.Standard Reel Types and Sizes

Fiber optic cable reels are commonly available in polymer, wooden, or steel constructions. For a 48-core optical cable, which is often armored and designed for indoor/outdoor use, the following dimensions are typical:

• Outer Diameter (OD): 800 mm to 1,200 mm

• Width: 400 mm to 600 mm

• Spindle Bore Diameter: 25 mm to 50 mm for polymer reels; reinforced steel bushings for wooden reels

• Maximum Cable Capacity: Depends on cable diameter; for a 48-core armored cable (~12–15 mm diameter), reels can hold 1,000–2,000 meters of cable
Material Considerations
• Polymer Reels: Lightweight, suitable for smaller cable lengths, often recyclable.

• Wooden Reels (Series K or P): Stronger, suitable for heavy loads and outdoor storage, heat-treated to meet international shipping standards .

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• Steel or Corrugated Reels: Used for high mechanical protection or very heavy armored cables.
Practical Notes
• The exact reel dimensions depend on the cable diameter and length. For example, a 48-core armored cable with a 12 mm diameter may require a reel with a 1,000 mm OD and 500 mm width to accommodate 1,500 meters of cable .

• Reels are often selected based on maximum winding diameter and weight limits to ensure safe handling and transport.

• For installation, ensure the reel type matches the deployment environment (indoor, outdoor, or direct burial) and that the spindle bore is compatible with handling equipment. In summary, a 48-core optical cable reel is generally around 1 meter in diameter and 0.5 meters wide, with variations depending on cable construction and length. Choosing the correct reel ensures safe storage, transport, and deployment of the fiber optic cable .

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

Reel Dimensions

Have a question?

Cable Reel Sizing Chart | Shane Industries

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

IWG Reel Dimensions

IWG Reel Dimensions- Internet Catalog.xls International Wire Reel Dimensions

Product Specifications Armored Indoor/Outdoor Plenum Fiber

Cable Core: Sub-units and fillers are stranded around the CSM, using reverse oscillation. A water blocking tape is applied over the

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 the signal. The

Reel Dimensions and Anatomy Guide | PDF | Manufactured Goods

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A diagram shows the key parts of a reel including the flange, inside traverse, drum diameter, and overall width. A table then lists

Fiber Optic Selection Guide

Fiber optic cables can be custom cut by Proterial Cable America or distributor to match your required lengths for each cable run.

Cable Reel Size and Dimensions: How to Choose the Right Fit

Learn how to choose the right cable reel size and dimensions. Avoid costly sizing mistakes with our guide to core

Reel Dimensions

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

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Fiber OSP cable, TeraSPEED® Single Jacket/Single Armor, Gel-Free, 48 fibers, Stranded Loose Tube, Composite OM4 and

The Ultimate Fiber Optic Cable Size Reference Chart

How to Use This Chart Understanding fiber optic measurements doesn''t have to be overwhelming. Our

Wooden Cable Reel Dimensions for Wire and Cable Orders

The drum core is the circular center of the cable reel. Larger drums provide a wider safe bending radius, necessary

Reel Calculator

Reel Calculator: Determine Length, Volume, and Weight on a Spool Accurately calculate the amount of material wound on a reel or

Outside Plant Fiber Optic Cable

Outside Plant Fiber optic cables for outdoor applications are engineered to withstand the more demanding conditions seen outside,

FSSL048NG Technical Data Sheet

Technical Specifications Product Overview ... Fiber Specifications ... Cable Construction ... Outer Jacket Specifications ... Optical

reel

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reel in a reels of fiber optic cable in all inside plant applications, such as collocation data centers and wireless projects. This

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Wood Reels

Dimensions: Reel sizes range from 24” to 96” in diameter. Wooden flange thicknesses typically range from

48 Core Cable CST Loose Tube Armoured Fibre Optic

HOC 48 core cable CST armoured fiber cable has 4 loose tube and 2 filler, fiber glass yarn, corrugated

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

neer Reel Anatomy

Reel Dimensions and Capacity Reel Dimensions and Capacity

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Deployable Fiber Optic Cable Reel Datasheet | FS

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The fiber optic cable reel is made of ABS and PC material, which is ideal for using in communication, broadcast and pro audio

WOOD REELS SPECS

WOOD REELS SPECS - Northern Cables ... 44"

Reel Calculator

Reel Capacity Calculator When placing an order, it''s important to know how many reels you can expect. To know how much wire or

OPTICAL FIBER CABLE SPECIFICATION (ADSS-Span= 100m)

1. General 1.1 The specification covers the construction and properties of single mode optical fiber cable.

Sumitomo optical fiber 48 core

Sumitomo 48-core fiber optic cable is a completely standard cable that is suitable for terrestrial environments. This fiber optic cable

Reel Capacity Calculator

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

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Scope This document establishes the specification requirements for a 48 (forty-eight) indoor/outdoor distribution armored fiber optic

Product Catalogue Fibre Optic Cable

The 5 -12 element multi loose tube cable construction consists of 24 to 144, optical fibres in 12 fibre gel filled loose tubes, SZ

Fiberhome CFOA-SM-AS80-S Cable Specs | PDF

This document provides specifications for an outdoor fiber optic cable including: The cable has a cross-section with an outer sheath,

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

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

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