

# What wires should be left in the optical cable reel





## Overview

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Enough cable should be left to accommodate coupling coils on both sides of the splice points. The FCR-1000 series cable reels are designed to fit Princetel's standard FORJs and slip rings. The rotary joints are protected inside the drum for durability and seamless deployment of single or multi-channel fiber optic and/or electrical cable with uninterrupted optical and/or electrical signal. Where reels are supplied with protective material fitted over the cable, the protection should remain in place until the cable will be installed. This Applications Engineering Note (AE Note) addresses common issues regarding cable pay-off during outside plant installations known as cable squirting, cable tangling during payoff, and reel storage. The cable drums should always be kept in upright position and be tied with a Chain or Belt with wooden blocks should be kept in between the flanges of.



## What wires should be left in the optical cable reel

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### General Optical Fiber Cable Installation Considerations

Enough cable should be left to accommodate coupling coils on both sides of the splice points. See Prysmian's cable handling / installation guidelines for details.

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### Cable Handling, Storage and Installation Guide

When using a crane or other overhead lifting device to move reels, insert a steel lifting bar in the reel arbor hole and use a lifting yoke or spreader bar to prevent (1) damage to the reel flanges and (2)

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## Fiber Optic Cable Storage & Respool Guide

Fiber Optic Cable Storage & Respool Guide This document provides guidelines for storing, respooling, and shipping Berk-Tek fiber optic cables. The key points are:

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## Anixter: Cable handling do's and don'ts , Cabling

Generally speaking, in terms of fundamental cable handling best practices, the distributor notes that cable reels should be stored indoors on a hard, dry surface.

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## Cable Handling

Never store a cable reel by laying the reel on its side. This may cause wraps of cable to cascade and tangle, causing possible future cable damage when unwinding.

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## Fiber Optic Cable Reel User Manual

The cable reel must be secured to a solid surface using at least (4) M8 or 5/16" bolts, either from the top or bottom. From the top: use the (4) 8.4mm diameter holes in the chassis cross angles to secure to a

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## Wire Storage

If wire is stored in a 'cold environment', it is recommended that reels be brought into the working environment at least 24 hours prior to use to allow the tension of the wire on the reel to adjust to the

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## Optical Fiber Cable Installation Guideline



Where it is necessary to lift reels and the cable reel is too heavy to move manually, the reel must be moved upright by lifting the cable with a fork lift or reel mover.

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## **General Optical Fiber Cable Installation Considerations**

General Optical Fiber Cable Installation Considerations Some key considerations for installing optical fiber cable are highlighted below. Failure to follow these guidelines may result in damage or

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## **99\_Active\_Design\_Template\_Optical Cable Drums Handling,**

This document provides the guidelines for handling, Transportation and storage of Optical fiber cable drums. These guidelines can apply to all 'Outside Plant Optical Fiber Cables'.

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## **Best Practices in cable reel Management**

This whitepaper overviews cable reel management and discusses the critical elements of a successful cable reel management program, including handling, transportation, storage, deployment,

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## **Get Reel Before You Install!**

It's obvious why you might want to test reel of cable before you commit your time and resources to installing it. While it would be nice to think that

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## **1.0 Fiber cable reel**

Prior to paying off the cable, cut off all but one foot of the cable "tail" on the outside



flange and leave it unsecured. Stop deployment when necessary and cut the cable "tail" when excessive

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## **Technical Information Instrumentation, Power & Control**

Under no circumstances should reels be dropped from the delivering vehicle to the ground. Unloading and reel handling should be accomplished so that the equipment used does not contact the cable

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## **Cable Placing Checklist and Handling: Squirting, Tangling**

There are two common causes of cable squirting: dimensional instability of the reel and unequal tensions along the cable. Dimensional instability most often results when the flange bolts

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## **The FOA Reference For Fiber Optics -Outside Plant**

The following items are key considerations in preparation for installing the fiber optic cable when the construction is ready for cable placement. Optical fiber cable

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## **On-the-Reel Testing of Fiber Optic Cable**

How to test your cable when it is still on the reel to ensure there are no problems before it is deployed.

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## **99\_Active\_Design\_Template\_Optical Cable Drums Handling,**

General This document provides the guidelines for handling, Transportation and storage of Optical fiber cable drums. These guidelines can apply to all 'Outside Plant Optical



Fiber Cables'. This document

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## **Industrial Cable Spools and Reels: Working With a Reel**

Whether you're working with smaller cable spools or 3,000-pound reel of cable, the right equipment can make an electrician's job easier. Learn more here.

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## **RECEIVING, HANDLING, AND STORING CABLE**

To prevent deterioration of the reels and moisture seeping into the cables, it is preferable to store cable reels indoors on a hard, dry surface. If cable reels are stored outdoors they must be supported off the

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## **W& C Tech Handbook Sec 10**

A reel not matched to the weight of the cable wound on it may be damaged during shipment. All wire and cable has a minimum safe bending radius. If cable is subjected to bends sharper than the

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## **Cable Reels: Principles and Applications , IQS Directory**

Cable reels are used for on-site installations, vehicle winching, fiber optic cable transport, storage of wires, monofilaments, threads, hoses, and more across

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### **1.0 Fiber cable reel**

5.1 The fiber optic fiber reel should be stored in its upright position in an area with a flat, solid surface during storage. Do not store the cable reel on its side against one of the flanges,



## **How to Use a Reel Capacity Calculator for Cable and Wire**

Whether in construction or manufacturing, calculating reel capacity for cable and wire is critical in the efficient and accurate breakdown of costs.

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## **Standard Manual Cable Reels**

Princetel offers a complete line of manual cable reels with integrated Fiber Optic Rotary Joints (FORJ's) and/or Electrical Slip Rings in a range of sizes to fit most

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## **Procedure for Cutting and Respooling Fiber Optic Cable**



GENERAL 1.1 Improper use of a respooler (Figure 1) can cause damage to a cable jacket or result in wavy fiber in tight buffered cables due to cable crossovers or excessive tensile loading. This

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## **Cable Storage and handling**

Indoor LAN copper and OF cables are not waterproof and their jacket is not UV resistant. In no circumstances shall any indoor cable boxes or reels be stored out-side or in a harsh environment.

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## **What Is the Optical Audio Port, and When Should I Use It?**

Be it analog or digital, the signal is sent as an electrical impulse over conductive wire. Every cable, from the speaker wire on your 1970s turntable to

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## A Method to Calculate the Capacity of a Reel or

A Method to Calculate the Capacity of a Reel or Spool It is often necessary to determine how much of a given cable or wire will fit onto a spool or reel. This

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