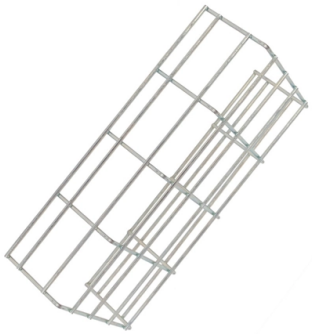
Fiber Optic Cable Reel Loading and Unloading



Overview

When a reel of fiber cable is shipped from the manufacturer, it is structurally sound and will protect the fiber cable during transporting and the payout installation.

Key Takeaways

Proper unloading of fiber optic cable reels requires upright handling, controlled lifting, and careful storage to prevent damage to the cable and ensure operator safety.

Pre-

Unloading Inspection

Before unloading, inspect the reel for any transport or storage damage and ensure the cable is dry and intact. Check that the wooden flanges and slats are in good condition, as these protect the cable during handling and storage. Avoid laying the reel on its side, as this can loosen the cable layers and cause tangling or kinking.

Forklift Handling

Fork width adjustment: Adjust the forklift forks to match the reel width to prevent sliding or misalignment. Upright lifting: Always lift the reel in an upright position; do not insert forks through the center of the reel. Single drum handling: Unload one reel at a time to maintain control and prevent damage.

Forklift positioning: Tilt the mast slightly to keep the reel stable on the forks and raise the forks at least 6–8 inches from the ground before moving.

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Ramp and Manual Handling

If unloading via a ramp: Controlled rolling: Roll the reel slowly and maintain control using a winch, come-along ratchet, or sufficient manpower to prevent runaway movement. Spreader beams: When using chains or wire ropes, a spreader beam prevents the lifting equipment from damaging the reel flanges.

Storage After Unloading

Upright storage: Store reels upright on a flat, solid surface to prevent flange deformation and cable loosening. Indoor environment: Preferably store indoors to protect from moisture, rain, and environmental degradation. Spacing: Maintain sufficient space between reels to avoid contact damage and allow easy access for future handling.

Securing cable ends: Secure the outside end of the cable to keep layers tight for future use.

Additional Precautions

Avoid forklift sliding: Do not slide the reel on the forklift; always lift and move carefully. Follow roll direction: Only roll the reel in the direction indicated by the arrows on the flange to prevent cable damage. Periodic checks: Tighten flange bolts periodically during handling to prevent expansion or loosening.

By following these procedures, fiber optic cable reels can be unloaded safely, minimizing the risk of cable damage, flange deformation, and operator injury while ensuring the cable remains ready for installation.

Article Content

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When a reel of fiber cable is shipped from the manufacturer, it is structurally sound and will protect the fiber cable during transporting and the payout installation.

99_Active_Design Template_Optical Cable Drums Handling,

These guidelines can apply to all ''Outside Plant Optical Fiber Cables''. This document provides information for handling of various reels/drums at various places from receiving in stores till shipment

Handling, Transportation and Storage procedure for Optical Fiber

This procedure shows the complete information of how to handle, transport and store the “Optical Fiber Cable Drums”. These guidelines can apply to all types of Optical Fiber Cables.

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TRANSPORT, HANDLING AND STORAGE PROCEDURES FOR

Lower drums gently onto the ground or transport. Avoid impact force loadings. Never drop drums. Always protect cable from rubbing or damage. Adjust load or use separators. Never let drum flanges

Optical Fiber Cable Optical Fiber Cable In

All Fiber Optic Cable reels should be stored upright Laying the reel on its side may cause damage to the reel flange and/or cause the cable layers to shift – This may cause cable to snag during de-reeling.

Fiber Optic Cable Reel User Manual

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

Fiber Optic Cable Transportation Handling Guidelines

This guideline outlines the recommended procedures for the safe and effective loading and unloading of fiber optic cables, packaged on wooden reels.

Wire and Cable Components Part II – Takeups and

Learn about takeups and payoffs in wire and cable production, essential for winding and unwinding processes. Explore various machine types

GENERAL FIBRE OPTIC CABLE INSTALLATION INSTRUCTIONS

Operators can choose from FO direct buried cable, Aerial FO cable, FO cable-in-duct, blown fibre cable, pulled FO cable, or pushed deployments – their determination will be based on landscape, cost and

Procedure for Cutting and Respooling Fiber Optic Cable

Check the inside of the reel flanges for objects that could damage the cable as it pays off. Changes in temperature and humidity can cause the wooden components of the reel to swell and contract

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

How to Load & Secure a Spool Safely on a Reel Trailer

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Properly loading and securing a spool on a cable reel trailer is essential for ensuring safety, preventing damage, and complying with transportation regulations. Whether you''re hauling

How to load and unload iron or wooden reels and handling on site

Loading and unloading operations and precautions for the handling of iron or wooden reels on the installation sites.

Handling and Storage Procedures for Plywood Reels

Figure 5 4.5 Ensure that all flange bolts are tight prior to loading a reel for respooling or cable cutting (Figure 6). ct allowing the flange bolts to loosen over time. Loose flange bolts may cause the cable to

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

Unloading and Moving Fibe

Unloading and Moving Fiber Optic Cable Fiber optic cable reels are typically delivered on a substantially heavier reel than coaxial cable. Therefore, they must be loaded and unloaded using a crane, special

Inspecting and Unloading Fiber Optic Cables

Suspect cable should be set aside for a more detailed inspection before the shipping documents are signed. Reels of fiber optic cable are shipped on their rolling edges, not stacked flat

Fiber Optic Cable Storage Tips

Fiber optic cables are sensitive to excessive pulling, bending, twisting, crushing and other impact forces, which may alter the fiber property and may pose threats to its performance. Therefore,

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