

Iron plate on the optical cable reel



Overview

Iron Wood Cable Reel Drum Spool for Optical Fibre Cables & Power The addition of steel skeleton enhances the mechanical strength and durability of the cabl.

Key Takeaways

Iron or steel plates in optical cable reels provide mechanical strength, durability, and stability during storage, transport, and deployment of fiber optic cables.

Purpose of Iron Plates

Iron or steel components, often integrated as side plates or internal skeletons, are used in optical cable reels to enhance mechanical strength and durability. These plates help the reel withstand the stresses of handling, lifting, and transportation without deforming, which is critical for protecting the delicate fiber optic cables inside. The iron plate ensures that the reel maintains its shape under load and prevents damage to the cable during unwinding or rewinding.

Construction and Design

Many modern optical cable reels combine steel and wood or aluminum to balance strength and weight. For example, iron wood reels feature a steel skeleton inside a wooden drum, providing excellent mechanical properties while keeping the reel lighter and easier to transport. In fully metal reels, anodized aluminum or stainless steel drums with iron or steel side plates are common, offering IP-65 rated protection and resistance to environmental factors like moisture and temperature extremes.



Benefits

Mechanical Stability: Iron plates prevent bending or warping of the reel under heavy cable loads. **Durability:** Steel reinforcement extends the service life of the reel, especially in outdoor or industrial environments. **Safe Handling:** Reinforced reels reduce the risk of cable damage during deployment, respooling, or storage.

Compatibility: Iron plates allow reels to support additional features like spring rewind, adjustable tension brakes, or multi-channel fiber optic rotary joints.

Practical Considerations

When using reels with iron plates, it is important to ensure: The drum diameter is sufficient to maintain the minimum bend radius of the fiber optic cable. The side plates are securely fastened to prevent wobbling during rotation. The reel is compatible with handling equipment, such as respoolers or payoff stands, to avoid excessive stress on the cable.

In summary, the iron plate on an optical cable reel is a structural reinforcement that protects both the reel and the fiber optic cable, ensuring safe, efficient, and durable cable management during storage, transport, and installation.

Article Content

Iron Wood Cable Reel Drum Spool for Optical Fibre Cables & Power

The addition of steel skeleton enhances the mechanical strength and durability of the cable reel, while the use of wood makes the cable reel lighter, easier to transport and install

OPGW Installation Manual

The bending radius of optical cable during laying process should be effectively guaranteed to avoid “gold hooks” and avoid too much tension, abrasion and too many times of twists and turns.

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

Wooden Cable Drums, Reels

Wooden cable drums produced for communication cables, fiber optic cables and energy cables are the main products of Sanmak Makara. Their flange diameters

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

CableTransportationAndHandling Issue2 Aug 2023

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.

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

Brief video tutorial on loading and unloading operations and precautions for the handling of iron or wooden reels on the installation sites.

Cable reel

In most cases, the cables on these reels carry mains electricity, though a similar mechanism is used for air hoses. Retractable cable reels are particularly useful

Steel/Iron Cable Drums

Steel and iron drums are significantly more durable than wooden alternatives, making them ideal for heavy-duty operations and continuous use. Their robust

BX-05 Portable Industrial Metal Fiber Optic Cable Reel

It supports fiber optic cables ranging from 100 to 1500 meters in length, making it ideal for use in field communications, emergency response, broadcast, military

Full text of "NEW"

Full text of "NEW" See other formats Word . the, > < br to of and a : " in you that i it he is was for - with) on (? his as this ; be at but not have had from will are they -- ! all by if him one your or up her there

Cable Placing Checklist and Handling: Squirting, Tangling ...

AEN165, Revision 5 This Applications Engineering Note (AE Note) addresses common issues regarding cable pay-off during outside plant installations known as cable squirting, cable

PDF document

PDF document PDF document Read this PDF document online, download the original file, and browse related details on device.report. Additional coding instructions can be found in the Article File chapter

Iron Wood Cable Reel Drum Spool for Optical Fibre

Iron wood cable reel is a cable reel that combines steel and wood structures, with excellent mechanical properties and service life. The characteristic is that its

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: Storage & Handling Tips

Before de-reeling cable, the reel should be visually inspected for possible damage caused during storage. Considerations for Handling Fiber Optic Cable

Steel/Iron Cable Drums

Steel/Iron Cable Drums: Durable Solutions for Heavy-Duty Applications Sanmak Makara is a leading manufacturer of steel and iron cable drums, designed for

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.

Contact Us

Continue your research online:

Website: <https://artduferoger.fr>

Technical inquiry: <https://artduferoger.fr/contact.html>

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

