

Function of Optical Cable Suspension Fittings



Summary of Content

Optical cable suspension fittings are essential for safely supporting aerial optical cables, distributing mechanical loads, and protecting fibers from stress and environmental factors.

Purpose and Function

Suspension fittings, also known as suspension clamps or hanging fittings, are used to suspend optical cables from towers or poles, transferring vertical loads from the cable to the supporting structure while maintaining line geometry and tension distribution. They also protect the cable from mechanical damage, reduce stress concentrations, and work with vibration dampers to minimize wind-induced oscillations and galloping, which can otherwise cause fatigue or fiber breakage .

Types of Suspension Fittings

Suspension fittings vary depending on the cable type, span length, and environmental conditions:

- Helical or preformed clamps: These distribute forces evenly over the cable surface, preventing localized stress and damage. They are often tool-free and allow easy inspection .
- OPGW suspension clamps: Designed for optical cables with metal reinforcement, typically made of high-strength aluminum alloy or stainless steel. They provide stability under high-voltage transmission lines and harsh weather conditions .

Article Content

Suspension Fittings Guide: Functions, Types, Selection

Definition: Suspension Fittings (also known as Suspension Clamps or Hanging Fittings) are a set of fittings used to

What Are The Main Types Of Fiber Optic Cable Fittings?

Function: Protects the optical cable splicing point, providing waterproof, moisture-proof, tensile, and mechanical

Your Ultimate Guide to ADSS/OPGW Fittings

Cable Protection: A well-designed fitting distributes stress evenly across the cable surface. Poorly designed fittings can

Components and Functions of a Preformed Suspension Clamp

A preformed suspension clamp is mainly used to suspend and secure optical cables or conductors on transmission

What Is the Function of Suspension Clamp?

From the point of view of the functional nature, the main role of suspension clamp for OPGW cable is to realize the

Types And Characteristics Of Fiber Optic Cable

Its main technical parameters are the clamp breaking force (kN) and cable diameter (mm),

Fiber Cable Fitting, Fiber Cable Fitting Products, Fiber Cable Fitting ...

Prioritize sealed splice closures (IP68 rated) and stainless steel suspension clamps to withstand salty air and humidity. Ensure

Hardware For OPGW Cable

The hardware provided is designed to meet both the construction and performance requirements such that the ground wire function,

Fiber Optic Cable Hardware Fittings: Suspension Clamps, Armor Rods ...

Support the cable at intermediate poles along the span, transferring vertical gravitational load to the pole structure

What are the main functions of optical cable fittings?

1) Suspension fittings, also known as support fittings or suspension clips. This kind of hardware is mainly used to hang

Types And Characteristics Of Fiber Optic Cable Suspension Fittings

Its main technical parameters are the clamp breaking force (kN) and cable diameter (mm), and the basic configuration

Contact Us

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