

Parameters of OPGW optical cable hardware vibration damper



AI Overview

OPGW vibration dampers are designed to reduce aeolian vibration with frequency ranges typically between 3-150 Hz, using clamp or Stockbridge-type structures with armor rods for stress protection.

Key Features and Components

Types of Dampers: OPGW vibration dampers include spiral, Stockbridge, and clamp types, each dissipating vibration energy differently to prevent cable fatigue and breakage .

Stockbridge-type dampers often use a tuning fork structure with multiple resonant frequencies for wide-spectrum energy absorption .

Frequency Range: Modern OPGW dampers are designed to operate effectively across a broad frequency spectrum, typically 3-150 Hz, with some models validated for 5-150 Hz. Multi-resonant designs allow the dampers to absorb vibrations at different frequencies, reducing horizontal cable movement and extending service life .

Structural Components:

Damper Weights: Often made of stranded galvanized steel wire or aluminum alloy, with different weights to target low and high-frequency vibrations .

Clamp: Aluminum alloy clamps match conductor expansion/contraction and provide secure attachment .

Armor Rods: Also called vibration damper protective rods, these distribute stress along the cable, preventing damage from concentrated forces and ensuring proper adhesion .

Design Considerations: Non-slip designs with helical clips or hammer structures ensure even force distribution and prevent slippage, which could otherwise increase cable fatigue . The dampers are tuned to the cable's natural frequencies for maximum energy dissipation .

Installation Parameters

Positioning: The low-frequency damper weight is installed closer to the pole or tower, while the number of dampers per span depends on cable strength, span length, and topography .

Armor Rod Placement: Dampers cannot be installed directly on the cable; they must be mount...

Article Content

CO-CA-1024 FIBERLIGN OPGW Product Catalog dd

FIBERLIGN® SPIRAL VIBRATION DAMPER The FIBERLIGN Spiral Vibration Damper is a motion control product used to dissipate aeolian vibration that may occur on OPGW cable spans. Using the

Galvanized Steel Vibration Damper for Opgw Cable

We are powtech manufacture and supplier, provide Galvanized Steel Vibration Damper for Opgw Cable on sale,factory price.

Fiber Optic Cable Hardware

For metric hardware, add suffix "M" to item number. Line evaluations and recommendations (including usage and placement) available upon request. Installation instructions on page 135. Vibration

Helical Opgw Cable Vibration Damper/Fr Type Spiral

FR anti-vibration hammer, optical cable anti-vibration hammer, pre-twisted anti-vibration hardware Product usage: Reduce the vibration amplitude of the wire.

Propagation of the Uncertainty in the Dynamic Behavior of OPGW Cables ...

In addition, the conditions for measuring vibrations after commissioning must be established to verify the calculations performed. In this paper, a energy balance model based on a

Vibration Damper/Armour Rod, Optical Fiber cable

Vibration Damper/Armour Rod offered by China manufacturer Zion Communication is a professional manufacturer of cables and accessories for signal and low

Spiral Vibration Dampers for ADSS Cables

Spiral Vibration Dampers Vibration dampers are used to absorb aeolian vibrations of conductor of transmission lines, as well as ground wire, OPGW, and ADSS. Wind-induced vibration of aerial

OPGW Vibration Damper

Function: Damper adopts special tuning fork type structure, it can generate four resonance frequencies which can cover actual ADSS/OPGW optical cable vibration range. After installing damper, the

TECHNICAL SPECIFICATION

The scope of supply of the optical cable includes the assessment, supply and installation of all required fittings and hardware such as Tension assembly, Suspension assembly, Vibration dampers,

OPGW Vibration Damper Conductor Accessories

Compare specifications, compatibility and options to support reliable fiber and network.

Anti-vibration Damper For OPGW Cable

Scope of application: Suitable for suppressing the vibration of wires and ground wires on overhead power lines. User guides: ①. The anti-vibration hammer

Overview of Electrical Cable Opgw Vibration Damper: Composition ...

Types of Electrical Cable OPGW Vibration Dampers & Associated Cables A comprehensive understanding of electrical cables and their protective components is essential for ensuring the

ADSS/OPGW Optical Cable Virbration Damper

Armor rods are needed when it is installed on OPGW and ADSS cable. Armor rods are also called Vibration damper protective rods. Because of the concentrated stress, vibration damper will cause

Dampers for fibre optic cable | SAPREM

This damper is especially designed for installation with ADSS fibre optic cables, improving the performance of the conventional stockbridge vibration damper when used with this kind of cables.

Analysis of the Dynamic Behavior of the OPGW Cable-Spiral Damper

This study focuses on identifying nonlinear damping characteristics through the analysis of experimental data obtained from laboratory span tests conducted on an OPGW cable system

OPGW Vibration Damper

dampers are designed for efficient transfer and dissipation of energy over a wide spectrum of frequencies. They feature all aluminum clamp construction to match expansion/contraction of

Hardware For OPGW Cable

We manufacture a wide range of hardware fittings for OPGW Optical Ground Wire, including Suspension and Tension Assemblies, Down Lead clamps, Earthing Clamps, Splice Enclosure, Reinforcing Rods,

ADSS Cable Vibration Dampers

ADSS Cable Vibration Dampers Vibration dampers are used to absorb aeolian vibrations of conductor of transmission lines, as well as ground wire, OPGW, and ADSS. Wind-induced vibration of aerial

How Do OPGW Cable Vibration Dampers Enhance... | ABPTEL

The main types of OPGW cable vibration dampers are spiral, Stockbridge, and clamp types. Each type reduces vibration by a different mechanism, ensuring that cable fatigue and

OPGW Vibration Damper

Explore AFL OPGW Vibration Damper Conductor Accessories. Compare specifications, compatibility and options to support reliable fiber and network.

OPGW Vibration Damper_Huadong Cable Group

HuaDong vibration dampers are designed for efficient transfer and dissipation of energy over a wide spectrum of frequencies. They feature all aluminum clamp construction to match

How Do OPGW Cable Vibration Dampers Enhance... | ABPTEL

Conclusion OPGW cable vibration dampers are indispensable for mitigating the damaging effects of aeolian vibration on optical ground wire cables. By reducing vibration energy,

OPGW Vibration Damper Placement Guide | PDF

The document discusses vibration damper installation guidelines for overhead power and ground wire (OPGW) cables. It provides formulas to calculate damper

All Dielectric Self Supporting Fibre Cable(ADSS)

Application: Overhead Line Damper is mainly used in ADSS optical fiber cable, OPGW cable, and overhead power lines, to eliminate or reduce the vibration of wire and cable under the action of

OPGW Cables for Reliable Power and Data Transmission

I just delved into a fascinating read from Abptel about OPGW (Optical Power Ground Wire) cables and their pivotal role in modern high-voltage power lines. It's truly impressive how these cables ...

Vibration Damper for ADSS OPGW Cables

Clamp Type Vibration Damper for ADSS/OPGW cables, with tuning fork structure of Damper Weight, is validated by China Electric Power Research Institute that

Spiral Vibration Dampers for OPGW

Spiral Vibration Dampers for OPGW Made from high impact, UV resistant, polyvinyl chloride (PVC), they are noncorrosive and do not abrade the OPGW or require

E27-TS-OPGW

The scope of supply of the optical cable includes the assessment, supply and installation of all required fittings and hardware such as Tension assembly, Suspension assembly, Vibration dampers,

Contact Us

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