

# Suspension wire to fix optical cable

## Article Overview

Suspension wires and kits are used to securely support optical cables, such as OPGW or fiber optic cables, while minimizing stress and maintaining cable integrity.

## Types of Suspension Systems

**Mechanical Suspensions:** These are lightweight assemblies designed to support optical ground wire (OPGW) across spans and line angles. They handle vertical, transverse, and longitudinal loads without damaging the cable or affecting optical performance. Breakaway bolts ensure proper torque during installation, eliminating the need for specialized tools, and the system allows fast, cost-effective deployment (AFL Mechanical Suspension) . **Double Layer Formed Wire Suspensions:** Suitable for OPGW cables, these suspensions can be configured as single or double layers. They provide robust support for long spans and are designed to distribute loads evenly across the cable, reducing stress on the fibers . **FIBERLIGN(R) Suspensions:** These use structural reinforcing rods, outer rods, housing halves, and resilient inserts to reduce compression, clamping, and bending stresses on the cable. While some components are reusable, rods typically are not, ensuring optimal protection for the optical fibers . **Suspension Sets:** Standard suspension sets include shackles, twisted or eye chain links, armour grip suspension clamps, parallel groove clamps, and earthing connectors. These components allow secure attachment to poles or towers while providing grounding and mechanical stability . **Wire Suspension Kits for Indoor or Non-OPGW Applications:** For lighter applications, such as suspending fiber optic cables indoors or in trade show setups, wire suspension kits include ceiling brackets, wire ropes, and cable grippers. These kits are adjustable, easy to install, and can support single or multiple cables .

## Installation Considerations

- o **Load Distribution:** Ensure the suspension system can handle vertical, transverse, and longitudinal loads without overstressing the cable.
- o **Cable Protection:** Use clamps and inserts that minimize compression and bending to prevent fiber damage.
- o **Span Length and Angle:** Select single or double suspensions based on span length and line angle changes.
- o **Reusability:** Some hardware components can be reused if in good condition, but structural rods often cannot.
- o **Grounding:** For OPGW, include earthing connectors to maintain electrical safety.
- o **Ease of Installation:** Systems with breakaway bolts or pre-assembled kits reduce installation time and the need for specialized tools.

## Summary

Choosing the right suspension wire or kit depends on the cable type, span length, environmental conditions, and load requirements. Mechanical suspensions and double layer wire systems are ideal for outdoor OPGW installations, while wire suspension kits are suitable for indoor or lighter applications. Proper installation



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ensures cable integrity, optical performance, and long-term reliability.

The preformed fiber optic suspension hardware kit is used to fix the conductor in the insulating cord of the straight line tower, or to

Wire suspension hanging kits from Carl Stahl Technocables are reliable, variable, easy to install and available as single elements or

buy FTTH fittings, hardware for aerial ADSS, drop cables. dead end anchoring clamps, J hooks, suspension clamps for long-time

The FIBERLIGN Suspension uses a combination of structural reinforcing rods (SRR), outer rods, housing

SAPREM offers you all the accessories for fibre optic cables with all the elements that make up the

The Stainless Steel Fiber Drop Cable Clamp, model ODWAC-22, is a premium solution designed for securing FTTH (Fiber to the

Product Features optical cable fitting fiber optic J hook suspension clamp Hook clamps are designed to provide a suspension for 5 to

ZMS group have an independent department specializing in custom-designing ADSS optic fiber cable and OPGW optic fiber cable

ADSS Accessories ADSS Accessories include Tension Assembly (Clamp), Suspension Assembly (Clamp), Optical Distribution

ADSS fiber cables demand site surveys, route planning, and correct mounting hardware.

The Adss suspension clamp PS-SSM is used to connect and fix the optical cable wires. The PS-SSM

Overhead fiber optic cable should adopt a galvanized steel strand with the specification of 7/2.2mm as the

TTF is a manufacturer and supplier of overhead suspension clamp for ADSS, OPGW and ABC cable, protects conductor and optical

We manufacture a wide range of hardware fittings for OPGW Optical Ground Wire, including Suspension and Tension Assemblies,



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Double Layer Formed Wire Suspension for OPGW and available in the Double Layer delivers high-performance engineering,

Explore the essential ADSS cable installation accessories for safe and reliable overhead fiber optic deployment. Learn

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