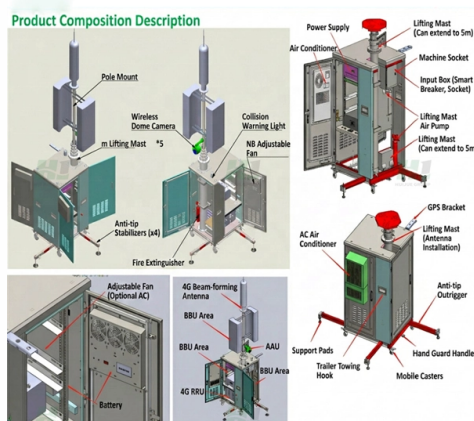


Kenya OPGW Fittings OS2



Overview

Kenya Power and Lighting Company VI 4.1.6 The OPGW installation shall include all cable fittings (tension and suspension spirals, vibration dampers, earth.

Key Takeaways

OPGW fittings in Kenya are designed to support OS2 single-mode fiber in overhead power line installations, including joint boxes, clamps, and termination accessories for reliable long-distance transmission. Overview of OPGW and OS2 Fiber

OPGW (Optical Ground Wire) combines grounding and fiber optic communication in a single cable, typically installed on high-voltage transmission lines. In Kenya, OPGW is commonly used for telecommunication links on new 66kV lines, supporting 48-core fiber or more, and is designed for continuous operation under harsh climatic conditions. The fiber type used is OS2 single-mode, optimized for long-distance, low-attenuation transmission, with a core size of 9 microns, suitable for high-speed data networks and telecommunication backbones.

Key Fittings and Accessories

- Joint Boxes and Termination Hardware
- OPGW cables are terminated in optical joint boxes located above anti-climbing devices for easy access.
- Joint boxes are equipped with pre-molded neoprene gaskets for sealing and protection against moisture and environmental exposure.
- They allow for fusion splicing of OS2 fibers and secure mounting to transmission towers using galvanized steel clamps.

- Clamps and Anchoring Fittings
 - Galvanized steel or stainless steel clamps are used to anchor OPGW cables to towers, ensuring stability under mechanical stress and lightning fault currents .
 - Fittings are designed to accommodate stranded aluminum-clad steel (ACS) or galvanized steel wires, providing both mechanical support and electrical grounding.
- Fiber Pigtails and Connectors
 - SC/UPC fiber pigtails are used for terminating OS2 fibers inside ODFs, patch panels, or distribution boxes, offering low-loss, high-precision connections .
 - These pigtails are compatible with fusion splicing and structured cabling systems, ensuring reliable network performance.
- Outdoor OS2 Fiber Cables
 - OS2 cables for OPGW applications are designed for outdoor installation, resistant to UV, moisture, and temperature variations .
 - They are available in various core counts (e.g., 8-core, 48-core) and can be purchased per meter for custom installations.

Suppliers and Availability in Kenya

- GL Fiber Technology supplies a full range of OPGW cables, fittings, and accessories, including OEM options for stranded, central, or loose tube fiber types with 12–144 cores .
- Local suppliers like Wavetech Kenya provide SC/UPC pigtails and other OS2 fiber accessories suitable for OPGW terminations .
- Kenya Power and Lighting Company specifications outline the required fittings and installation standards for OPGW on new transmission lines .

Installation Considerations

- Fittings must ensure mechanical protection during installation and operation, preventing damage from environmental factors or human activities.
- Proper earthing of joint boxes and fittings is essential to prevent high-induced voltages.
- All components should comply with IEC 61232 and other relevant standards for fiber optic earthwire and OPGW installation . In summary, Kenya OPGW fittings for OS2 fiber include joint boxes, clamps, termination hardware, and fiber pigtails, all designed to support long-distance, high-speed communication while providing mechanical and electrical protection on overhead transmission lines. These components are available from both international and local suppliers, following KPLC specifications for reliable and low-maintenance operation.

Article Content

Kenya Power and Lighting Company VI 4.1.6

The OPGW installation shall include all cable fittings (tension and suspension spirals, vibration dampers, earth connection etc.), joint

Fibre Optic | Kenya Electricity Transmission Co. Ltd

In the construction of electricity transmission lines, we incorporate Optical Ground Wire (OPGW) technology for operations. The

FIBRE OPTIC SYSTEMS FOR OHTL

To ensure that the OPGW cables will operate successfully in a high-voltage network, all aspects associated with the implementation

OPGW Fittings

Main Application The Hardware Fittings and Accessories are designed as the connection among the optical fiber cable and tower. It

Hardware For OPGW Cable

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

Fibre optic systems for OHTL

Prysmian's aluminium-clad stainless steel OPGW provides a compact design without sacrificing corrosion resistance. It is best suited

Fiber Optical Cable Manufacturer, Supplier | Sopto

Sopto manufactures and supplies a series of Fiber Optical Cable, including indoor fiber optical cable, outdoor fiber optical cable,

Fibre optic systems for OHTL

OPGW fittings Downlead clamp The downlead clamps are used to fix the cable to the tower in the downlead to the joint box.

Recommendation ITU-T L.151 Installation of optical ground wire

3.2.3 hardware: Attachments or fittings that are in direct contact with the cable, and which are used for stringing and clipping of

What Are the Specifications and Standards for... | ABPTEL

OPGW cables are specialized cables that combine the functions of a ground wire for electrical protection and a fiber

Complete Guide to OPGW Hardware Fittings and Uses

OPGW hardware fittings serve as the backbone for any fiber optic installation, providing necessary support while safeguarding

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

