

Article Overview

8-core OPGW cables with aluminum PBT loose tube construction are available with full fittings and accessories for aerial installation, compliant with IEEE and IEC standards.

Cable Specifications

- o Core Configuration: 8 optical fibers, suitable for small-scale communication networks on high-voltage transmission lines .
- o Construction: Central aluminum PBT loose tube containing the fibers, surrounded by single or double layers of aluminum-clad steel (ACS) or mixed ACS and aluminum alloy wires for mechanical protection .
- o Mechanical Properties: High tensile strength, good resistance to vibration fatigue, and low additional load on towers .
- o Electrical Properties: Designed to withstand short-circuit currents and provide lightning protection without affecting optical transmission .
- o Environmental Resistance: Excellent anti-corrosion performance, suitable for outdoor aerial installation in harsh environments .

Fittings and Accessories

- o Anchoring and Clamps: Galvanized steel clamps for tower attachment, ensuring compatibility with various tower types .
- o Splice Boxes and Jointing: Stainless steel or aluminum splice boxes to protect fiber ends, with proper excess fiber management for installation and maintenance .
- o Installation Hardware: Full range of aerial fittings, including suspension clamps, dead-end clamps, vibration dampers, and grounding accessories .

Standards and Testing

- o Compliance: IEEE 1138, IEC 60794-4, IEC 60793, TIA/EIA 598 A .
- o Testing: Optical attenuation measured via back-scattering (OTDR), type tests per IEC 60794-4-10 or IEEE Std 1138; certificates from independent laboratories can be provided .

Quotation Considerations

- o Customization: OPGW cables are often custom-designed to match project-specific optical, electrical, and mechanical requirements .
- o Supplier Options: GL FIBER and other manufacturers provide OEM support, factory pricing, and rapid quotation responses, typically within 24 hours .



Project Quotation OPGW Fittings 8 Cores

o Project Scope: Include cable length, number of fittings, tower types, and installation conditions to obtain an accurate quotation. For a complete project quotation, it is recommended to contact suppliers like GL FIBER directly with your project specifications, including 8-core OPGW cable length, tower details, and required fittings, to receive a detailed price and delivery schedule .

Fittings and accessories of OPGW usually include: tension clamp, suspension clamp, special earth wire, vibration damper, armor

OPGW is mainly applied in communication line of newly constructed high voltage transmit electricity system with 35 KV or above, or

After the installation of OPGW, fittings and accessories, downlead clamp and cable tray are

OPGW (Optical Ground Wire) is an integrated overhead cable designed for power transmission lines,

The fittings and accessories described herein are indicative of installation hardware typically used of OPGW installations and will be

We customize 2, 4, 6, 12, 24, 48 cores of OPGW optical fiber cable. Meanwhile, the price of our OPGW

Fiberon has developed technical expertise in fiber optic cables and proven its capabilities in manufacture of energy efficient bare

The OPGW comprises an inner core containing optical fibres for data transmission, and an outer layer(s) of conductor strands to

1.1 SCOPE This specification covers Optical Ground Wire Cables (OPGW) for the installation on high voltage overhead power lines.

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It is best suited to applications where the ground wire will be replaced by an identical cable due to tower limitations. Because of this,

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

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We also offer a range of OPGW fittings and accessories such as suspension and dead-end fittings, vibration dampers, splice

OPGW FITTINGS Download clamp The download clamps are used to fix the cable to the tower in the download to the joint box.

Web: <https://www.supremeacademicresearch.co.za>

