

OPGW Optical Cable Weight Table



Article Overview

The weight of OPGW cables typically ranges from 0.8 kg/m to 2.5 kg/m depending on fiber count, metallic layers, and overall construction.

Weight Factors

The weight of an OPGW cable depends on several factors:

- **Fiber Count and Core Design:** Cables with more optical fibers (up to 48 or more) require larger central stainless steel tubes and additional protective layers, increasing weight .
- **Metallic Layers:** OPGW cables include layers of aluminum-clad steel (AS) and aluminum alloy (AA) wires for mechanical strength and conductivity. Double or triple layers of these metals significantly increase the cable mass .
- **Diameter and Armor:** Larger diameters and additional armor layers for high-tension or high short-circuit current applications add to the weight .
- **Material Choice:** Stainless steel tubes, aluminum alloy, and galvanized steel wires have different densities, affecting the overall weight per meter .

Typical Weight Ranges

- **Lightweight OPGW:** 0.8–1.2 kg/m, usually for low fiber count (up to 24 fibers) and single-layer metallic protection.
- **Standard OPGW:** 1.2–1.8 kg/m, for medium fiber counts (24–48 fibers) with double-layer metallic protection.
- **Heavy-duty OPGW:** 1.8–2.5 kg/m, for high fiber counts (48–144 fibers) and double...

Article Content

Jun 09, 2026

OPGW Optical Ground Wire

OPGW cable is suited for installation on new power lines with double function of a ground wire and a communication wire, especially

Oct 13, 2025

OPGW Technical Specifications Overview | PDF | Optical Fiber | Cable

This document provides technical specifications for OPGW fiber optic cables and associated hardware. It defines requirements for

Aug 05, 2025

OPGW Specifications for High Voltage Lines

This document outlines specifications for an optical pilot ground wire (OPGW), including: - The applicable IEC recommendation for

Dec 22, 2025

AR-1-CT-OPGW-xxF-G652D_G655_AR-1-LT-OPGW-xxF-G652D_G655

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

May 14, 2026

OPGW OPTICAL FIBRE

INTRODUCTION Overhead ground wire with optical fiber cable forms an integral part of City Power transmission network; it's used

Apr 10, 2026

OPGW Cable Specifications and Data | PDF | Optical Fiber | Materials

The document provides specifications for an optical ground wire (OPGW) cable including its cross section, structure, standards,

Jul 14, 2026

TECHNICAL SPECIFICATION Optical Ground Wire

OPGW tests shall be in accordance with applicable standards or agreements between purchaser and manufacturer. As a general

Mar 27, 2026

Specification_24fiber_OPGW_11

The OPGW cable shall be packaged in steel reels according to the best commercial practices. Each length of cable shall be wound

Jul 14, 2026

Composite fiber optic overhead ground wire (OPGW-95)

Definition of OPGW OPGW (optical ground wire) is a type of conductor that is used in the construction of electric power transmission

Sep 22, 2025

Fibre Optic Overhead Ground Wire (OPGW) Standard

1 General 1.1 Purpose To define the technical specifications for the supply of Fibre Optic Overhead Ground Wire (OPGW) for

Feb 06, 2026

AR-1-CT-OPGW-xxF-G652D_G655_AR-1-LT-OPGW-xxF-G652D_G655

The specification describes the basic design of an OPGW-cable with its main components: the fibers, the optical fiber unit and the

Apr 02, 2026

Product Catalog

This is designed for splicing ADSS, OPGW cables and the normal cables to house the fiber core splices to outdoor intermediate

Oct 26, 2025

Product Catalog

Optical Ground Wire (OPGW) Cable Fiberon OPGW is one of the most reliable fiber optic mediums for the telecom service providers,

Apr 23, 2026

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

May 08, 2026

OPTICAL GROUND WIRE (OPGW)

OPGW shall be accordance with applicable standard of OPGW and requirement of customer. The following test items shall be

Oct 15, 2025

OPGW cables

Features and advantages Prysmian Group provide tailor made and complete full OPGW system (fittings, boxes, ODF, installation

Jul 16, 2026

Different Types of OPGW Cable Code Naming Rules | OPGW

Learn the naming rules of different OPGW cable types, including fiber count, structure codes (B1, B2, D), and technical

Sep 03, 2025

Optical Fiber Composite Overhead Ground Wire (OPGW)

Two or three stainless steel optical tubes are helically stranded in the inner layer of a multiple-layer cable. The multi loose tube type

Nov 23, 2025

OPGW and ADSS Fiber Cable

Optical Power Ground Wire for Transmission Applications Overview Prysmian's PureCore™ OPGW cables are typically custom

Oct 20, 2025

CentraCore Optical Ground Wire OPGW | AFL EMEA

AFL CentraCore OPGW (Optical Ground Wire) is preferred for its compact size and ability to house up to 72 fibers in a diameter

Jul 02, 2026

Optical Fibre Composite Overhead Ground Wire (OPGW)

Optical Fibre Composite Overhead Ground Wire (OPGW) Optical fibre composite overhead ground wire (OPGW)

Oct 14, 2025

TECHNICAL SPECIFICATION

The type tests to be conducted on the OPGW cable are listed in Table 2-2 Type Tests for OPGW Cables. Unless specified otherwise

Feb 12, 2026

Fibre optic systems for OHTL

Introducing fibre optic systems for OHTL Overhead optical fibre cable systems have become a key factor in telecommunications

Nov 08, 2025

Packed with energy and fibre.

Packed with energy and fibre. OPGW cables provide the elements that sustain winners. Packed with energy and fibre. Our Optical

Nov 21, 2025

NT-OPGW-12S.cdr

Application: OPGW optical cables are mainly used in 500KV, 220KV and 110KV voltage lines. They are affected by factors such as

Feb 05, 2026

OPGW Specifications and Testing Standards | PDF | Optical Fiber ...

This document provides specifications for an optical fiber overhead ground wire (OPGW) cable. It lists general requirements

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

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