

The 24-core opgw optical cable weighs one meter



Article Overview

The approximate weight of a 24-core OPGW cable is typically around 0.35-0.47 kg/m (0.24-0.32 lbs/ft), depending on design and materials.

Cable Construction and Weight Factors

A 24-core OPGW cable consists of a central stainless steel tube housing the optical fibers, surrounded by aluminum-clad steel (ACS) wires or a combination of ACS and aluminum alloy wires for mechanical strength and grounding purposes. The weight of the cable depends on:

- Number of fibers: 24 cores in this case.
- Metallic layers: Single or double layers of ACS or aluminum alloy wires.
- Overall diameter: Typically ranges from 11-13 mm for 24-core designs.
- Protective coatings: Stainless steel tube and aluminum sheath add to the total weight.

Typical Weight Range

Based on industry examples and similar OPGW designs:

- Weight per meter: Approximately 0.35-0.47 kg/m.
- Weight per foot: Approximately 0.24-0.32 lbs/ft.
- Reel weight: A standard 2-3 km reel of 24-core OPGW can weigh 700-1,400 kg, d...

Article Content

Nov 27, 2025

NT-OPGW-12S.cdr

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

Feb 05, 2026

OPGW 24 & 48 Core Specifications | PDF | Fibers | Optical Fiber

This document provides specifications for two types of OPGW fiber optic cables: a 24 core cable and a 48 core cable. Both cables

Sep 01, 2025

24 Core OPGW Cable Specifications Everything You Need to Know

The "24 core" refers to 24 individual optical fibers within the cable, typically housed in stainless steel loose tubes. This

Nov 26, 2025

FIBRE-OPTIC OVERHEAD GROUNDWIRE (OPGW)& FODP

Development of installation guides and procedures for the stringing, mechanical installation and splicing of the OPGW cable,

Apr 28, 2026

48 Core/24Cores OPGW Fiber Optic Cable

48 Core G652D Opgw Fiber Optic Cable Cable Description: OPGW fiber cable is the short form of Optical

Sep 13, 2025

Opgw Optical Cable 24 Core Single-Mode Power Communication Optical ...

Opgw Optical Cable 24 Core Single-Mode Power Communication Optical Fiber Cable Price of Per Meter, Find Details and Price

Nov 07, 2025

OPGW Conductor Specifications and Guidelines

1. The document discusses specifications for overhead power lines, including requirements for conductors, optical fibers, and

Dec 25, 2025

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

Aug 01, 2025

AlumaCore Optical Ground Wire (OPGW)

AFL's AlumaCore OPGW (Optical Ground Wire) combines lightweight aluminum construction with integrated fiber optics for

Jul 05, 2026

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

The OPGW cable contains high purity silica optical fibers with acrylate coating, and is designed and tested according to various

Mar 25, 2026

OPGW Cable With 24 Single Mode Optical Fibers

This OPGW Cable With 24 Single Mode Optical Fibers is designed especially for the purpose of fulfilling the requirements of the

Jan 13, 2026

OPTICAL GROUND WIRE (OPGW)

Both ends of OPGW shall be securely fastened to drum and sealed with a shrinkable cap. The required marking shall be printed with

Dec 14, 2025

24 Core OPGW Cable_HuaDong Cable & Wire

The Central Tube Optical Ground Wire (OPGW) is surrounded by single or double layers of aluminum clad

Sep 13, 2025

OPGW Cable Specifications by ZTT | PDF | Optical Fiber

ZTT OPGW cable 24 F 14mm - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The document is a technical

Apr 09, 2026

Product Catalog

High strength OPGW cable is available up to 96 fibers making it suitable for application is high fiber count and super-high-voltage

Aug 24, 2025

OPTICAL FIBER OPGW

The specification describes the basic design of COMCAST® OPGW with its main components: the fibers, the optical fiber unit and

Feb 19, 2026

TECHNICAL SPECIFICATION Optical Ground Wire

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

Jan 05, 2026

OPGW Cable Specifications Overview | PDF | Wire | Screw

The document provides specifications for two types of OPGW cable: 24 core and 48 core. Both types have 24 or 48 fibers, a

Jul 04, 2026

OPGW TDS Rev03.xls

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part,

Nov 14, 2025

Optical Fiber Composite Overhead Ground Wire (OPGW)

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

May 05, 2026

AlumaCore Optical Ground Wire (OPGW)

AFL AlumaCore Optical Ground Wire (OPGW) is a dual purpose cable replacing traditional shield or earth wire with the added benefit

Sep 15, 2025

Common Models of OPGW Optical Cable 24 Cores

Since the overhead ground wire and the optical cable are combined into one, compared with other optical cables, the construction

Nov 07, 2025

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

Mar 31, 2026

Specs ZTT OPGW 24 Fibers PDF | PDF | Optical Fiber

Specs-ZTT-OPGW-24-fibers.pdf - Free download as PDF File (.pdf), Text File (.txt) or read online for free.

Nov 03, 2025

Fibre Optic Overhead Ground Wire (OPGW) Standard

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

Jun 21, 2026

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

- The document provides technical specifications for an optical fiber overhead ground wire (OPGW) cable produced by

Oct 09, 2025

Fibre optic systems for OHTL

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

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

This document is for informational purposes only. Specifications subject to change without notice.

