

How much does a 48-core optical cable weigh per kilometer

Article Overview

A kilometer of 48-core optical fiber cable typically weighs between 60 kg and over 200 kg, depending on whether it is outdoor, armored, or OPGW type.

Typical Weight Ranges

- Indoor cables: Usually lighter, around 10–30 kg per kilometer due to minimal protective layers .
- Outdoor cables: Heavier because of water-blocking, UV-resistant jackets, and additional strength members, typically 60–200 kg per kilometer .
- Armored cables: Include metal armoring for mechanical protection, often exceeding 200 kg per kilometer .
- OPGW (Optical Ground Wire) 48-core cables: Designed for overhead power lines, these cables are lightweight relative to their strength, but exact weight depends on construction (aluminum-clad steel, stainless steel tube, or hybrid designs) and can vary significantly .

Factors Affecting Cable Weight

- Cable Construction: Single-layer vs. double-layer OPGW, armored vs. non-armored, and the type of strength members (steel, aluminum, or hybrid) influence weight .
- Protective Layers: Outdoor and armored cables include additional jackets, water-blocking materials, and UV protection, increasing mass .
- Fiber Type and Core Count: While 48 cores are standard, the fiber type (single-mode or multi-mode) and coating thickness slightly affect weight

Article Content

Feb 21, 2026

96 & 48 Core Fiber Cable Specifications | PDF | Optical Fiber

The document contains specifications for 96 core and 48 core fiber optic cables including parameters like fiber counts, tube

Nov 09, 2025

Cable Weight Per Meter Calculator

Calculate cable weight from length and weight per meter, or estimate total weight by cable size, material, core count,

Dec 04, 2025

Fiber-optic cable

A TOSLINK optical fiber cable with a clear jacket. These cables are used mainly for digital audio connections between devices. A

Sep 01, 2025

Opti-Core Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144

Opti-Core™ Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144-Fibres, EuroClass Cca and B2ca for EMEA A T A S H E E T

Jun 11, 2026

Technical Specifications for 24fiber/48fiber armoured Underground ...

6. Cable drums, Marking, Packaging and Transport All optical fibre cable shall be supplied on strong wooden drums provided with

Sep 21, 2025

24 Core and 48 Core Fiber Optic Cable

Starting custom your ideal cable size by E-mail: sales@huadongcablegroup Get Price 24 and 48 core optic fiber cable

Aug 26, 2025

Item # ADSS-48, ADSS All Dielectric Self-Supporting Fiber Optic Cable

Below are the coefficients for a standard ADSS cable containing 32 to 60 fibers in 5 tubes with a single outer jacket. The cable can

Dec 01, 2025

PRODUCT SPECIFICATIONS

PRODUCT DESCRIPTION Fiber Optic Cable - OM4 Multimode Fiber, Plenum or Riser Rated cable that is offered in 48, 60, 72, or 96

Jun 10, 2026

Opti-Core® Fiber Optic Distribution Cable

to provide high-density connectivity and ease of installation. Applications include intra building backbones, routing between

Feb 26, 2026

Introduction to Optical Fibers, dB, Attenuation and Measurements

This document is a quick reference to some of the formulas and important information related to optical technologies.

Mar 08, 2026

Fibre Optic Cable Catalogue

Horizontal Double Jacket Multi Loose Tube Cable - 24-144 Fibres Outer Sheath Fibre Count Outer Diameter (mm) Weight (per km)

Feb 17, 2026

Cable Weight Per Meter Calculator

Understanding how to calculate the cable weight per meter is essential for optimizing material management, reducing

Dec 12, 2025

Cable Weight Per Meter Calculator Online

A cable weight per meter calculator is an instrumental digital tool designed to calculate the weight of a cable over a

Mar 29, 2026

Fiber Optic Cable Reel Sizes

Discover our Fiber Optic Cable Reels. Find out about our cable drum dimensions, weight, length, standard spool and wooden cable

Nov 23, 2025

Cable Weight Per Meter Calculator

The cable weight per meter is vital for engineers and architects in the planning and design phase of projects. It is used

Feb 23, 2026

760154633 | D-048-LA-CM-F12NS/8W024/5K024 | CommScope

Fiber OSP cable, TeraSPEED® Single Jacket/Single Armor, Gel-Free, 48 fibers, Stranded Loose Tube, Composite OM4 and

Sep 03, 2025

FIBER OPTIC CABLES

Characteristics Cable Diameter : 1,3 mm for 2-4F / 1,6 mm for 8F / 1,7 mm for 12F
Cable Weight : 1,5 kg/km 2-4F / 2,3 kg/km 8F / 2,4

Apr 20, 2026

Detailed reference table for electrical cable weight

1. What is an electric cable weight table? An electric cable weight table is a specification

Mar 30, 2026

Fiber-optic communication

An optical fiber patching cabinet. The yellow cables are single-mode fibers; the orange and blue cables are multi-mode fibers:

May 30, 2026

48 Core Ultra Light Weight Singlemode G657-A1 ADC Overhead

This PIA approved ultra light weight fibre optical drop cable has been designed for aerial installations into the fibre access network.

Dec 30, 2025

Calculation of cable weight by section and length

There are two options for calculating weight: Do it manually. To do this, use the tables where the weight of a particular brand of cable

Feb 26, 2026

How much does fiber optic cable weight?

Armored Fiber Optic Cables: These cables, which include metal armoring for enhanced protection against physical damage, can

Mar 08, 2026

OPTICAL FIBRE CABLES

OPTICAL FIBRE CABLES SILEC CABLE REFERENCES AND KNOW-HOW Since 1983, Silec Cable has successfully supplied the

Aug 14, 2025

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

Jan 17, 2026

ULW-Overhead-Optical-Fibre-Cable-12-24-48F_FT-EN01559x_2503

CABLE MARKING 12/24/48F SM G.657A1 ULW AERIAL OPTICAL CABLE MMYYYY Length Code Meter Marking

Dec 30, 2025

Fiber Optic Cable Pricing Guide: Factors That Affect

Fiber optic cables are essential components in today's broadband, FTTx, and data center

Jun 29, 2026

Basics of Fiber Optics

Fiber optics provides many advantages over copper conductors including higher bandwidth, transmission of signals over longer

Mar 26, 2026

48 Core Optical Fibre Cable| LUL Approved

Buy online Brand Rex LUL section 12 compliant, non-metallic armoured Singlemode 48 fibre cable 2km. Multi loose tube cable with

Jul 20, 2026

FIBER OPTIC CABLE PRODUCTS

Optical Ground Wire, Aluminum Tube, Non-metallic Tubes Fiber Cable versatile design combines easy splicing and fiber handling,

Jun 04, 2026

FIBRE OPTIC CABLES GENERAL SPECIFICATIONS

FIBRE OPTIC CABLES GENERAL SPECIFICATIONS ... * All attenuation values are valid for cabled fibres ** Zero Water Peak

Feb 02, 2026

The FOA Reference For Fiber Optics

As fiber optic communications systems are expanded to accommodate rapidly growing communications

Jan 03, 2026

Underwater Steel Wire Armored SWA Fiber Optic Cable

This is an underwater fiber optic cable which adopts a steel wire armor, it is also known as SWA. And the fiber cable sheath and

Jan 28, 2026

Fiber-Optic Cable Bandwidth: Complete Guide

Fiber-optic cable bandwidth determines how much data your network can handle, directly impacting business

Jun 06, 2026

Guidelines On What Loss To Expect When Testing Fiber Optic Cables

Guidelines On What Loss To Expect When Testing Fiber Optic Cables To be able to judge whether a fiber optic cable plant is good,

Apr 07, 2026

Enbeam OS2 G.657.A1 Fibre Cable Multi Loose Tube 48 Core HDPE

Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 48 Core 9/125 HDPE Fca Black, part of a huge range of OS2

Jul 05, 2026

Enbeam OS2 Armoured CST Fibre Optic Cable Loose Tube 48 Core

The singlemode fibre is G.652.D compliant low water peak grade and offers OS2 performance and OS1 backwards compatibility.

Jul 28, 2025

Calculator Gallery

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

May 02, 2026

How much does fiber optic cable weight?

Indoor cables can weigh anywhere from 10 to 30 kg per kilometer (6.6 to 19.8 pounds per 1000 feet). Outdoor Fiber Optic Cables:

Contact Us

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

Website: <https://iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,
2196, South Africa

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

