

Optical Cable Weight Parameter Table



AI Overview

Optical fiber cables have standardized weight and mechanical parameters that vary by fiber count, cable type, and construction, typically documented in technical specifications.

Typical Optical Cable Weight Parameters

Optical fiber cables are characterized by several mechanical and physical parameters, including weight per unit length, outer diameter, tensile strength, and bending radius. These parameters depend on the cable design (loose tube, tight-buffered, armored, or unarmored) and fiber count. A representative table for single-mode optical cables is as follows:

Fiber Count	Cable Type	Outer Diameter (mm)	Approx. Weight (kg/km)	Max Tensile Load (N)	Min Bending Radius (mm)
4	Loose Tube	7.05	0.60	1058	Loose Tube
8	Loose Tube	8.06	0.80	1201	Loose Tube
12	Loose Tube	9.07	1.00	1352	Loose Tube
16	Loose Tube	10.51	1.10	1200	Loose Tube
24	Loose Tube	12.01	1.50	1809	Loose Tube
36	Loose Tube	15.02	2.20	2000	Loose Tube
48	Loose Tube	18.03	2.50	2027	Loose Tube

Notes:

- Weight per kilometer includes the fiber, buffer tubes, strength members, and outer sheath, as specified in YOFC technical specifications .
- Outer diameter varies slightly depending on sheath material and reinforcement (e.g., steel wire armored or non-metallic).
- Tensile load indicates the maximum pulling force the cable can withstand during installation without damage.
- Minimum bending radius is typically 15 times the cable diameter for static installation and 20 times for dynamic installation....

Article Content

Aug 01, 2025

DTS0079 Standard Table

STANDARD TABLES The following pages list the standard fibers, cables, connectors, lenses, and laser head adaptors available

Nov 12, 2025

FIBRE OPTIC CABLES GENERAL SPECIFICATIONS

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

Mar 16, 2026

FIBER OPTIC CABLE PRODUCTS

CABLE DESCRIPTION: Optical Ground Wire, Aluminum Tube, Non-metallic Tubes Fiber Cable versatile design combines easy

Jun 23, 2026

FIBER OPTIC CABLE PRODUCTS

OPGW AL Covered Stainless Steel Tube Fiber Cable combines strong protection to the optical fibers, reduced diameter options,

Apr 01, 2026

F.O G.8, OUTDOOR, MULTI-TUBE, ARMORED, DOUBLE JACKET

LINK Fig.8, Outdoor/Multi-tube, Armored, Double Jacket, fiber optic cable. Singlemode and Multimode color coded fibers are housed

Jun 14, 2026

Recommendation ITU-T G.652 (08/2024)

Cable attributes focus on attenuation coefficient and polarization mode dispersion coefficient, with specifications based on statistical

Oct 27, 2025

OPTICAL FIBRE CABLES

All cables described in the present document can accomodate all optical fi bre types available on the market (singlemode G 652 d -

Aug 20, 2025

Fibre Optic Cable Catalogue

Fibre Types & Wavelengths Briticom® cables are available in many specifications, for both indoor and outdoor use. We have a wide

May 21, 2026

Optical fiber tables and chromatic dispersion specs

In this table, 802.3 has analyzed available information on connector loss, optical return loss and PMD in order to define optical

Feb 19, 2026

Optical fiber tables and chromatic dispersion specs

Optical fiber and cable characteristics Clause 151.11 specifies fiber cables meeting G.652B/D and G.657A1/A2 satisfy the

Jul 12, 2026

FIBER PROPERTIES & SPECIFICATIONS

General Description There are various types of fibers with their unique properties and specifications that made them suitable for

Dec 08, 2025

Fiber optic cable Catalog

Fiber Optic Cables Technical Catalogue FTTH Optic Fiber Micro Cable Sample Fiber Optic Micro Cable Optical Fiber Core

Oct 30, 2025

Fiber-optic cable

Fiber-optic cable A TOSLINK optical fiber cable with a clear jacket. These cables are used mainly for digital

Jun 27, 2026

Handbook Optical fibres, cables and systems

The optical fibres are specified in ITU-T with reference to the geometrical, optical, transmission and mechanical attributes listed in

Feb 24, 2026

Optical Fiber Product Information Sheets

An all inclusive list of the various optical fiber specification sheets.

Aug 31, 2025

Fiber-optic communication

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

Nov 20, 2025

The FOA Reference For Fiber Optics

Topic: Optical Fiber Table of Contents: The FOA Reference Guide To Fiber Optics
Optical Fiber Fiber Optics is the communications

Jul 25, 2025

The FOA Reference For Fiber Optics

Topic: Fiber Optic Cable Table of Contents: The FOA Reference Guide To Fiber Optics
Fiber Optic Cable

May 21, 2026

ITU-T Rec. G.652 (11/2009) Characteristics of a single-mode optical ...

Both analogue and digital transmission can be used with this fibre. The geometrical, optical, transmission and mechanical

Oct 26, 2025

Fiber Optic Cables Specifications

Find Fiber Optic Cables on GlobalSpec by specifications. Fiber optic cables are composed of one or more transparent optical fibers

Sep 10, 2025

Optical Fibre Cable Technical Specification

The standard optical cable structure is shown in the following table, other structure and fibre count are also available according to

May 12, 2026

Single-mode optical fiber

In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed

Jul 19, 2026

Optical Fibre Cable Technical Specification

The mechanical and environmental performance of the cable are in accordance with the following table. Unless otherwise specified,

May 07, 2026

Fiber Optic Cables

Armoured and Flame retardant optical fibre cable, AICI - code F104 NEK TS 606:2016 (available also in MUD protected version).

Oct 28, 2025

CORNING OPTICAL COMMUNICATIONS GENERIC

CORNING OPTICAL COMMUNICATIONS GENERIC SPECIFICATION FOR 1728-3465 FIBER STRANDED SUBUNIT

Mar 05, 2026

Opti-Core® Fiber Optic Distribution Cable

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

Nov 19, 2025

Fiber Optic Cable Catalog

Fiber Optic Cable Table of Contents Introduction PCA Overview Other PCA Products Since 1986, Proterial Cable America has been

Mar 01, 2026

Single-Mode Optical Fiber (SMF)

First class reliability thanks to Draka proprietary processes and coating system Draka Single-Mode Fiber (SMF) provides optimum

Contact Us

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