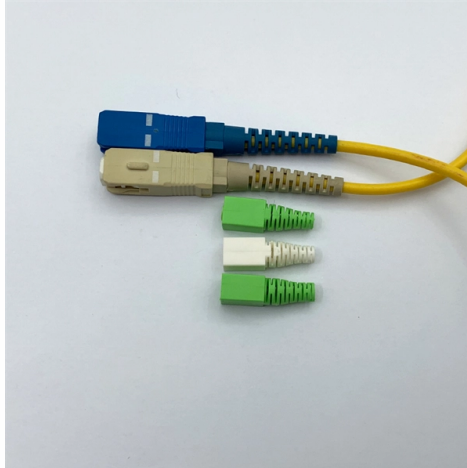


What is the normal weight of a 12-core optical cable



Overview

12-Core Fiber Optic Cable Specs Technical data includes 12 fibers, 6 fibers per tube, cable diameter of 13.1mm, weight of 192kg/km, minimum bending radii.

Key Takeaways

The typical weight of a 12-core optical fiber cable ranges from approximately 50 to 150 kilograms per kilometer, depending on construction and materials. Weight Factors

The weight of a 12-core optical cable depends on several factors:

- Cable Type: Indoor cables with a compact structure and LSOH (Low Smoke Zero Halogen) jacket are lighter, usually around 50–70 kg/km, while outdoor or armored cables with additional protective layers can weigh 120–150 kg/km .
- Fiber Type: Single-mode or multimode fibers have similar weights, but multimode cables may include additional buffer tubes or gel filling, slightly increasing weight .
- Reinforcement Materials: Aramid yarn or steel strength members add tensile strength but also contribute to overall weight .
- Jacket Material: LSOH, PVC, or PE jackets differ in density, affecting the cable's mass per unit length .

Typical Specifications

- Diameter: 6–12 mm for indoor cables; 8–15 mm for outdoor or armored cables .
- Tensile Strength: 1,500–2,500 N/100 mm for standard 12-core cables .

- Installation Considerations: Lighter cables are easier to handle in indoor duct or backbone installations, while heavier armored cables are designed for direct burial or harsh outdoor environments .

Summary

For most indoor 12-core optical cables, expect a weight of 50–70 kg per kilometer, while outdoor or armored variants can reach 120–150 kg per kilometer. Always check the manufacturer's datasheet for precise weight, as it varies with cable design, jacket type, and reinforcement materials .

Article Content

Fibre optic cable selection guide

The optical fibre elements are typically individually coated with plastic layers, usually colour coded for identification. 4, 8, 12, 16 or 24

Fiber Optic Cables Specifications

Duplex cables are fiber optic cables with two optical fibers. Multifiber Cable Multifiber cables are fiber optic cables with several optical

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://alfa-pro.co.za>

Technical inquiry: <https://alfa-pro.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

