

Fiber Optic Cable Line Grade Classification Table and Price



Article Overview

Fiber optic cables are classified by fiber type, construction, and application, with prices ranging from \$0.05 to \$6 per foot depending on specifications and installation requirements.

Fiber Optic Cable Classification

1. Fiber Type

- Single-Mode Fiber (SMF, OS1/OS2): Small core ($\sim 9\text{ }\mu\text{m}$), supports long-distance, high-speed transmission, commonly used in campus backbones, metropolitan, and long-haul networks .

- Multimode Fiber (MMF, OM3/OM4): Larger core ($50\text{--}62.5\text{ }\mu\text{m}$), supports multiple light modes, ideal for short-reach applications like data centers .

2. Cable Construction

- Tight-Buffered: Indoor use, easier to terminate, suitable for patch cords and riser applications .

- Loose-Tube: Outdoor or long-distance use, protects fibers from environmental stress, often gel-filled for moisture resistance .

- Armored: Extra protection for harsh environments or direct burial, adds 20–50% to cost .

- Non-Armored: Standard indoor or aerial applications, lower cost .

3. Jacket Material and Environmental Rating

Article Content

Fiber Optic Cable Catalog

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

The differences between optical fiber grades A, B, C, and D

In summary, optical fiber grades A, B, C, and D differ significantly in terms of their end-face quality standards, which directly impact

Fiber Optic Cable Catalog

With a growing list of applications for category cables, many of them critical to a facility's operations, selecting a high quality cable

The differences between optical fiber grades A, B, C, and D

These grades are defined by standards that specify acceptable tolerances for various geometric parameters of the fiber end-face.

Specifications For Fiber Optic Networks

Specifications For Legacy Fiber Optic Networks A listing of many fiber optic LANs and links available in the last 30 years, with basic

Fiber Optic Cable Types: Comprehensive Guide

Explore the different types of fiber optic cables and understand which type suits your specific needs for speed, distance,

Fiber Optic Cable Types – Multimode and Single Mode

Application Fiber Optic connectors and cables are present in nearly every communications project that we might sell into, be it a DAS

OPTICAL FIBER CLASSIFICATIONS UNDER ISO 11801 & EN

DESIGNATIONS and AMD2.0 (draft) to ISO 11801 for international fibre optic EIA/TIA 568-C.3 - recently approved (2009) for North

Fibre Optic Cabling Basics

Fibre Optic Cabling Basics Fibre Optic Cabling Basics The EN 50173-1 standard describes different categories of fibre-optical cables

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables,

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

Fiber Optic Cables Selection Guide: Types, Features, Applications ...

Fiber optic cables are composed of one or more transparent fibers enclosed in protective coverings and strength members. Fiber

Comprehensive Guide to Fiber Optic Cable Pricing: Cost Analysis and ...

Explore detailed insights into fiber optic cable pricing, including cost factors, quality considerations, and long-term value benefits for

Types of Fibre Optic Cable: A Comprehensive Guide

This exhaustive work will elucidate fibre optic cable types, their uses, and benefits, leaving one capable of deciding how

Types Of Fiber Optic Network Classification

Underwater Optical Fiber Cable Categories There are three main types of underwater optical fiber cables: Marinized Terrestrial

Cost of Fiber Optic Cable: Pricing Guide (2026)

Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts

Classification of Optical Fiber (The Complete Guide 2020)

Now optical fiber communication has become the mainstream method of communication transmission. The market is full of all kinds

Optical Fiber Explained and Demystified

FDDI-grade: This type was among the first types of fiber cables that became widely deployed for LAN use. OM1: Supports slightly

Fibre optic cable selection guide

This fibre optic cable selection guide explains the differences between the different types and the commonly available construction

Contact Us

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