

RIVO MULTITRADE OPTICAL SYSTEMS

How much does zero-buoyancy optical cable cost



Overview

The Fathom Tether is a high quality tether cable designed specifically for ROVs and other subsea applications.

Key Takeaways

Zero-buoyancy optical cables for ROVs and subsea applications range from approximately \$0.20 per meter to \$279.60 per unit, depending on length, type, and manufacturer.

- Blue Robotics Fathom Tether: Neutrally buoyant tethers designed for ROVs range from \$30 to \$279.60 depending on length and configuration. Standard tethers are available up to 300 meters, while slim tethers are limited to 200 meters. These tethers include pre-installed connectors and are optimized for low drag and deep-water operations .
- HobbyWater Zero-Buoyancy Underwater Cable: Offers options such as 60 meters or 260 meters with 2-core or 4-core watertight connectors. Pricing is not explicitly listed on the site, but these are typically sold as premium subsea cables suitable for ROVs and underwater robotics .
- Amazon Zero-Buoyancy Optical-Electric Hybrid Cable: A 100-foot (approximately 30 meters) hybrid cable for subsea robotics and offshore applications is available, with prices varying based on seller and specifications. This cable is designed for long-distance tether management and continuous underwater operation .

- Accio and Other Industrial Suppliers: Bulk or high-performance fiber-optic ROV tethers can cost as low as \$0.20 per meter for large-volume projects (e.g., Rovmaker Umbilical Cord Cables) or around \$0.80 per meter for single-mode fiber-optic tethers with high data throughput .

Factors Affecting Price

- Length of Cable: Longer cables significantly increase cost due to material and manufacturing complexity.
- Connector Type: Watertight connectors (e.g., MCIL, MCBH, Binder 770) add to the price.
- Cable Type: Hybrid optical-electric cables are more expensive than purely electrical zero-buoyancy tethers.
- Performance Specifications: Tensile strength, abrasion resistance, and seawater durability influence cost.
- Volume and Supplier: Bulk orders or industrial suppliers may offer lower per-meter pricing compared to retail or hobbyist suppliers.

Summary

For small-scale or hobbyist ROVs, expect to pay \$30-\$280 per tether depending on length and connectors. For industrial or research applications, prices can range from \$0.20 to \$0.80 per meter for high-performance fiber-optic zero-buoyancy cables. Always consider the required length, connector type, and operational environment when budgeting for these cables .

Article Content

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

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Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for trenching, splicing, and

Fiber Optic Cable Run Cost Guide 2026

The main cost drivers include material type, run length, trenching or aerial work, and any required permits or

Fathom ROV Tether (by the meter)

The Fathom Tether is a high quality tether cable designed specifically for ROVs and other subsea applications. It is neutrally

ROV Underwater Robot Cable – Zero Buoyancy Floating Optical

Its zero-buoyancy floating design makes it an excellent choice for long-distance tether management, continuous underwater

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Discover the true cost of optical cables in 2024. From \$0.30 per foot to high-end industrial fiber, learn how to budget for your next

How Much Does Fiber Optic Cable Installation Cost?

How Much Does Fiber Optic Cable Installation Cost? The price of fiber cable depends on the number of strands, jacket

Floats Strong Neutrally Buoyant

Our lightweight, buoyant designs are customized to your needs. From neutrally buoyant designs to cable that will float on water we

ROV zero buoyancy cable | multi-core single mode fiber plus power

Derul Zero Buoyancy Optical Ribbon Optoelectronic Composite Cable (underwater cable) | Product Application: DeRu Zero

Wholesale fiber optic cable price and 4 way to save cost

How much does fiber optic cable cost? In general, fiber optic cable price can vary from \$0.3 to \$5 \$0.3 to \$5 per

ROV Neutral buoyancy tether cable – Huadong Cable Group

ROV Neutral buoyancy tether cable ROV cables may have different constructions, depending on the job they will perform. These

Price of Zero-Buoyancy Optical Cable

ROV zero buoyancy floating cable plus power optical fiber network cable RS485 combination cable from Chinese supplier, Shanghai

Fiber Optic Cable Price Per Foot Guide 2026

Buyers typically pay a range for fiber optic cable per foot depending on fiber type, jacket, and shielding, plus

Fiber Optic Cable Cost Guide 2026

Buyers typically pay for fiber optic cable by length, fiber type, and installation complexity. Main cost drivers include

Cost of Fiber Optic Cable Per Foot – 2026 US Installation Guide

Updated 2026 cost of fiber optic cable per foot. Get material + installation prices, per-foot breakdown for singlemode/multimode, and

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