

Article Overview

Coaxial cable assemblies range from \$20 to over \$5,000 per unit, while optical fiber equipment prices vary by type and region.

Coaxial Cable Pricing

1. Cable Assemblies:

- o Entry-Level Assemblies (\$20-\$150): Suitable for consumer electronics, small-scale industrial sensors, or basic test equipment. Typically use copper-clad aluminum or standard copper conductors, single-layer shielding, and standard connectors like BNC, RCA, or F-type. For example, a 2-meter BNC cable for a security camera may cost \$35-\$60, while a 5-meter RCA cable could range \$80-\$120 .

- o Mid-Range Assemblies (\$150-\$800): Designed for demanding applications such as 5G base stations, medical devices, or industrial control systems. These use high-purity copper or silver-plated conductors, double-layer shielding, and precision connectors like SMA, TNC, or N-type. A 10-meter SMA cable for a 5G small cell may cost \$250-\$400, and a 3-meter PTFE-insulated cable for medical ultrasound could range \$500-\$750 .

- o High-End Assemblies (>\$800-\$5,000+): Custom or specialized assemblies for aerospace, defense, or high-frequency telecommunications, with strict performance standards and extensive testing.

2. Bulk Coaxial Cables:

- o RG-6 is the most common type, often sold in 500-1,000 foot rolls. Prices vary depending on solid-core or quad-shield construction. Bulk purchases reduce per-foot cost, and suppliers like CableWholesale offer lifetime warranties and pull-box packaging for large installations .

- o RG-11 cables are thicker and more expensive, suitable for long-distance runs exceeding 150 feet due to lower signal loss .

3. Connectors and Tools:

- o Coaxial connectors (BNC, F-type, RCA) range from a few dollars each to \$20-\$50 for precision or gold-plated versions.

- o Professional tools such as compression tools (\$30-\$80), cable strippers, crimpers, and complete installation kits (\$50-\$150) are essential for reliable terminations .

Optical Fiber Equipment Pricing

- o Bare Optical Fiber: Prices vary by type (single-mode, multi-mode) and region. CRU Group provides up-to-date market assessments for bare fiber, reflecting supply-demand factors and regional differences .

- o Fiber Optic Tools and Test Equipment: Specialized tools for installation, testing, and maintenance, including fusion splicers, OTDRs, and cable testers, can range from a few hundred to several thousand dollars depending on precision and functionality .



Coaxial Optical Cable Equipment Price

Factors Affecting Prices

- o Cable Type and Quality: Higher shielding, low-loss materials, and specialized insulation increase cost.
 - o Length and Quantity: Longer runs and bulk orders affect unit pricing.
 - o Application Requirements: Industrial, medical, or aerospace applications demand stricter standards, raising costs.
 - o Installation Complexity: Wall penetration, junction boxes, and signal amplifiers add labor and material costs.
- . In summary, coaxial cable equipment prices span from affordable consumer-grade assemblies to high-end industrial solutions exceeding \$5,000, while optical fiber equipment costs depend on fiber type, tools, and regional market conditions. Proper selection should balance performance requirements, reliability, and budget.

Find versatile media converters with plug-and-play installation. Explore options for fiber, coax, and ethernet connectivity needs.

The coaxial cable is a very versatile type of cable typically used for data transmission. Learn about 11 subtypes of

Find affordable coax cable solutions for cable TV, satellite, and high-speed internet. Explore various lengths and styles.

Fibre optic delivers superior bandwidth, distance and security. Coaxial offers lower cost and

Coaxial cable transmits audio, video, and data signals between devices via radio frequencies. Also known as coax, this cable is

CableWholesale offers a variety of coax cable supplies at wholesale prices, including coaxial cables, splitters, connectors, and more.

Looking to choose between coaxial and fiber optic cables? Discover the key differences in performance, cost, and

Discover the factors that influence coaxial cable installation costs and how to budget effectively. Read our helpful

Product description Digital Coaxial audio signals and Optical Toslink Digital audio signals are two variations of the same S/PDIF

Mouser offers inventory, pricing, & datasheets for Coaxial Cables.

Coaxial Optical Cable Equipment Price

PROZOR 192K Bi-directional Coaxial Optical Converter, Optical SPDIF Toslink to Coaxial, Coaxial to Optical SPDIF Toslink,

We offer fiber optic materials from Test Equipment, Bulk Cable and Fusion Splicers to Tools, Patch Cables and Consumables.

Coaxial Preparation Tools Tools to cut, strip and prepare coaxial cables Showing the single result

Hybrid fiber-coax (HFC): A closer look As mentioned earlier, HFC, or Hybrid Fiber-Coax, is

Conclusion Each type of cable has its own unique features and is used for different purposes. Twisted Pair Cable is the

Conclusion As both Optical Fiber and Coaxial Cable are guided transmission media which transmit data signals

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