

Coaxial fiber optic cable speed



AI Overview

Coaxial cables typically support internet speeds up to 1 Gbps, with practical speeds often ranging from 100–400 Mbps for downloads and around 35 Mbps for uploads.

Overview of Coaxial Cable Speed

Coaxial cables transmit data using electrical signals through a copper core, which makes them susceptible to interference and signal degradation over long distances, unlike fiber optic cables that use light for transmission. Modern coaxial networks using DOCSIS 3.1 technology can theoretically reach downstream speeds up to 10 Gbps and upstream speeds up to 1 Gbps, though real-world performance is often limited to 500–1000 Mbps due to shared bandwidth and network congestion. Typical residential coaxial internet speeds are 100–400 Mbps for downloads and around 35 Mbps for uploads.

Factors Affecting Speed

- Cable quality and type: RG-6 and RG-11 are common coaxial variants, with RG-11 supporting longer runs with slightly lower signal loss.
- Network infrastructure: Shared bandwidth among multiple users can reduce effective speeds during peak hours.
- Distance from ISP: Longer cable runs can experience attenuation, reducing speed and reliability.
- Technology standard: DOCSIS 3.0 vs DOCSIS 3.1 significantly impacts achievable speeds.

Comparison with Fiber Optic Cable



Article Content

Twisted Pair vs. Coaxial vs. Fiber Optic Internet Cables

We dig into the difference between twisted pair, coaxial, and fibre internet cables. The differences in how

Coaxial Cable vs. Fiber Optic: Speed and Performance

Fiber optic internet can achieve speeds up to 1 Gbps or higher, with both download and

Coaxial Cable Vs Fiber Optic Cable: Differences Pros & Cons

Compare coaxial cable vs fiber optic cable to choose the right infrastructure. Learn about speed, EMI resistance, and

Types of Data Network Cable: STP, UTP, Coax, Fiber Optic

Learn the advantages and disadvantages of common types of data cable including UTP cable, STP cable, coax cable, and fiber optic

What's the Difference Between Copper, Coax, and Fiber-Optic Cables?

Confused about the difference between copper, coax, and fiber internet? Learn how each cable type affects your

Hybrid Fiber-Coax vs FTTH: Key Differences in Speed, Reliability

Compare hybrid fiber-coax (HFC) and fiber-to-the-home (FTTH) internet in 2025. Learn about speed, reliability, costs,

Coax vs Fiber: A Comprehensive Comparison Guide

While fiber optics uses light pulses passed through the glass and plastic fibers. The speed of data transmission via

Coaxial Cable vs Fiber Optic: Key Differences & Benefits

Coaxial cables use copper to send electrical signals, while fiber optic cables use light

Fiber vs. Cable Internet: Compare Options and Providers ...

Fiber vs. Cable: Compare the benefits and differences between fiber optic and cable internet. Explore speed, reliability,

Difference between Optical Fiber and Coaxial Cable

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

Coax vs Fiber: What Is Actually in Your Wall and Why It Matters

Physical comparison of coaxial cable vs fiber optic internet. Learn what each cable carries, how data travels

Debunking the Fiber is Faster than Coax Myth

That's right, RF signals move through coaxial cable at about 87% the speed of light. So, the correct response to the

What's Different Between Fiber Optic and Coaxial Cables?

Coaxial vs fiber optic cables: which is right for you? Compare bandwidth, latency, cost, and reliability to optimize your

Which Telecom Cable Is Best for You Fiber Optic vs Coaxial vs

Compare fiber optic, coaxial, and twisted pair telecom cable types to choose the best option for your internet, TV, or

A thorough comparison of the differences between

The differences between coaxial cable and optical fiber are explained in the following three

Data Communication Cable Types Explained: Cat, Fiber, Coaxial

Share this Data Communication Cable Types: From Cat to Fiber-Optic & Coaxial by Dawn Bertman on Jul 23, 2024

Coaxial Cable Internet Speed | Real-World Speeds Explained

Coaxial cable internet typically delivers real-world download speeds of 100–400 Mbps, with most residential plans capping at 1 Gbps

Cable Data Transmission Speeds: A Comparative Analysis

Ethernet copper and fiber optic cables are compared in many different ways. Here is the look into data transmission

Fiber Optic vs Coaxial Cable: Key Differences Explained

When comparing fiber vs. coax, there are several crucial factors to consider, including speed, reliability, scalability, and cost. Let's

Hybrid Fiber-Coax vs FTTH: Key Differences in Speed,

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

Network Cable Maximum Lengths: Ethernet, Coaxial, and Fiber Optic ...

This guide dives deep into the maximum length constraints of the three most common network cables—Ethernet,

Throughput vs. Speed

When choosing between copper and fiber optic cables for your applications, understanding the differences for superior

Fiber Optic vs Twisted Pair vs Coaxial Cable 2026 Comparison

Explore 2026 comparison of fiber optic, twisted pair, and coaxial cables. Learn differences in speed, distance, EMI,

Fiber-Optic Cable Vs. Coaxial Cable Which is Better?

Sustainability – Fiber is future-proof with its capability to handle the introduction of new devices and

Coaxial Cable vs. Fiber Optic Cable

What's the Difference? Coaxial cable and fiber optic cable are both types of transmission mediums used to carry data and signals.

Fiber Optic Cable vs Twisted Pair Cable vs Coaxial Cable

Compare fiber optic, twisted pair, and coaxial cables. See differences in speed, distance, installation, and cost to pick

Coaxial Cable Vs Fiber Optic Cable: Comprehensive

ii) What is fiber Optic Cable? fiber optic cable is a type of cable which is different from

Fiber Optic vs Coaxial Cable: Key Differences Explained

Fatbeam breaks down the differences between fiber optic vs. coaxial cable, including pros, cons, and practical applications, to help

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