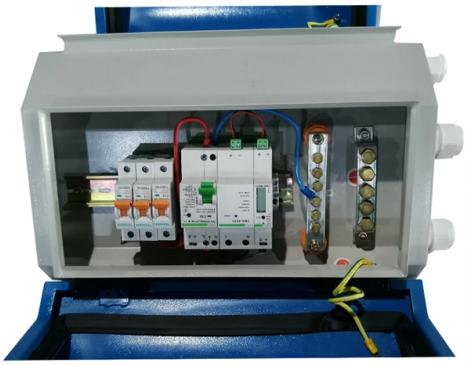
Where is the network cable splitter



Overview

Learn how to use an Ethernet splitter the right way, when it works, when it does not, and what to grab instead for faster, more reliable connections.

Key Takeaways

A network cable splitter allows one Ethernet cable to carry two separate connections, effectively sharing a single cable between two devices under specific conditions.

How It Works

An Ethernet splitter, also called a LAN splitter, divides the wire pairs inside a standard Ethernet cable into separate channels. Standard CAT5e or CAT6 cables contain four twisted pairs, but 10/100 Mbps Ethernet only uses two pairs. The splitter allocates different pairs to different ports, allowing two devices to share a single cable.

For example, one 1000 Mbps cable can be split into two 100 Mbps connections.

Key Considerations

Bandwidth Limitation: Traditional splitters do not increase total bandwidth; they share the existing connection. Each device may be limited to 100 Mbps unless using a modern Gigabit splitter.

Two-

Sided Setup: To function properly, a splitter must be used at both ends of the cable—one to split and one to recombine the connections. Not a Switch: Unlike an Ethernet switch, a splitter cannot manage traffic or provide full-duplex communication. It simply divides the cable physically.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Use Cases

Limited Ports: Useful when only one Ethernet drop is available but two devices need a wired connection. Temporary Installations: Ideal for short-term setups or low-bandwidth environments. Space Efficiency: Reduces the need for running additional cables in tight spaces.

Alternatives

Ethernet Switch: A small unmanaged switch can provide multiple ports with full bandwidth management, often a better long-term solution than a splitter.

Po

E Splitter: Separates power and data from a PoE cable to power non-PoE devices without a local adapter. Powerline or MoCA Adapters: Use existing electrical or coaxial wiring to extend network connections without running new Ethernet cables.

Popular Products

Examples include the TP-Link EH210 1-to-2 Gigabit LAN Splitter and UGREEN 1-to-2 Gigabit Ethernet Splitter, which are plug-and-play and compatible with routers, switches, and devices like PCs, TVs, and gaming consoles. In summary, a network cable splitter is a convenient tool for sharing a single Ethernet cable between two devices, but for higher speeds, multiple devices, or long-term setups, an Ethernet switch or other alternatives may be more effective.

Article Content

How to Use an Ethernet Splitter: Setup and Tips | Monoprice

Learn how to use an Ethernet splitter the right way, when it works, when it does not, and what to grab instead for faster, more reliable connections.

Splitter for Ethernet Cable: How to Use & What You Need

Learn how to use a splitter for Ethernet cable to connect multiple devices. Step-by-step guide, limitations, and essential equipment explained. Get connected now!

Ethernet Splitter 101: Everything You Need to Know

A typical Ethernet cable splitter works by separating the wire pairs inside an Ethernet cable and redirecting them into multiple ports. Standard Ethernet cables contain four twisted pairs,

How to Install & Use an Ethernet Splitter Guide – TURNSTONE CABLES

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Standard Ethernet cables contain four twisted wire pairs. A splitter separates these pairs so two devices can send data using one physical cable run. This setup is often used in rooms with

Ethernet Splitter: How to Split Ethernet?

Just use a pair of Ethernet splitters. Use splitter A and two Ethernet cables to connect to the router, and then connect this splitter to the wall plate in room A. Two Ethernet signals are

Ethernet Splitter Basics: How It Works & When to Use One

With two Ethernet splitters—one where the cable starts and one where it ends—you can carry two separate 100 Mbps connections over the same cable. However, each device still needs its

What Are Ethernet Cable Splitters (and the Best Ones to Buy)?

An Ethernet cable splitter has two Ethernet port connectors on one side and a single Ethernet port connector on the other. It works on the premise that 10 or 100 Mbps Ethernet does not

Ethernet Splitters 101: Everything You Need to Know

An Ethernet splitter is a small device that allows two Ethernet signals to travel through a single cable. It looks like a simple plastic box with one port on one side and two on the other.

Ethernet Splitter vs. Switch: What''s the Difference?

What Is an Ethernet Splitter? An Ethernet splitter is a simple device with three Ethernet ports on it. The idea is to allow you to run two Ethernet devices along a single cable without having to

UNITEK | USB Hub, Storage, Adapters & Charging Solutions

Car Charger Charging Cable Charging Station Travel & Wall Charger Wireless Charger Video & Network Accessories DP / HDMI / USB-C Switch HDMI Splitter & Extender KVM Switch Screen

White CAT6 Network Cable Gigabit Network Cable Ethernet Splitter

The gigabit network cable features fast transmission speed, ensuring a stable network with no lag or delay. Item Type: Ethernet Cable. 1 x Ethernet Cable. - The RJ45 network cable interface boasts

shopfluxpro Network cable splitter three-way tee adapter for RJ45 ...

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Split a single Ethernet cable into two outputs with this injection-moulded RJ45 network tee adapter. Suitable for LAN extension and IPTV, available in white, yellow, red, blue, or black. Pack includes

Ethernet Splitter 1 to 2 RJ45 Network Cable Adapter Review

Join me as I uncover whether the compact Ethernet Splitter 1-to-2 RJ45 adapter is a clever space-saver—or a costly compromise you should avoid.

GNSS Signal Splitters for GPS Antennas

GNSS splitters are routinely used with NTP servers Network Time Protocol (NTP) servers are responsible for synchronizing the clocks of networked computers and other devices. The NTP

HDCabling Centurion And Boksburg | Online And Walk-in Networking ...

Advice and Installation are offered on HDMI Cables and Equipment for 1080p, 4K or 8K Displays or Large Screen setups. Video/Audio Distribution via HDMI Splitters, Matrix Switches and HDMI

AshwinD24''s gists · GitHub

GitHub Gist: star and fork AshwinD24''s gists by creating an account on GitHub.

NVIDIA MFA7U40-H020 20m Fiber Optic Splitter Network Cable

The MFA7U40-H020 is an NVIDIA / Mellanox LinkX InfiniBand Twin-Port HDR Active Optical Splitter Cable spanning a length of 20 meters (65.6 feet). It functions as a breakout cable that splits a single

What is Fiber Optic Splitter and Types

What is a Fiber Optic Splitter? Fiber optic splitter is a passive optical device used to distribute optical signals, which can divide input optical signals into multiple outputs to meet the fiber

Related Video Reference

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

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Contact Us

Continue your research online:

Website: https://cgweb.co.za
Technical inquiry: https://cgweb.co.za/project-enquiry.html

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

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved