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cabling is the foundation of a network and ensures that data can be transmitted efficiently and accurately without reliable cabling network performance can suffer leading to slow data transfer speeds connectivity issues and network downtime cabling is the set of wires made of either copper or glass that is used to connect computers and other network components to enable them to communicate thus forming a network of computers what is network cabling in this lesson the various types of network media are described along with the tools used in day to day network operations lesson objectives identify network cables and connectors categorize characteristics of connectors and cables identify the appropriate networking tools to use based on a given scenario part of any network engineer s job is to understand network cabling the different types available their capabilities and optimal use cases while cabling tends to last through several generations of hardware refreshes it does evolve slowly over time this tutorial explains the types of network cables used in computer networks in detail learn the specifications standards and features of the coaxial cable twisted pair cable and the fiber optical cable the world of network cabling is vast and diverse with various types of cables designed to meet specific requirements in this article we will explore the different types of network when planning network infrastructure two primary approaches are structured cabling and point to point cabling each method has its pros and cons impacting factors like scalability maintenance and cost effectiveness let s dissect these approaches to help you make informed decisions for your network ethernet cables are a family of cable types used for connecting devices to local area and wide area networks when first introduced in the 1980s they used a coaxial cable design but that was replaced by twisted pair copper cables and fiber optic cabling in

later generations to improve reliability performance and durability the primary types of network cabling include coaxial cables fiber optic cables shielded twisted pair stp cables and unshielded twisted pair utp cables each type serves specific purposes and exhibits distinct advantages in terms of performance and reliability network cabling forms the backbone of any networked infrastructure a properly installed cabling system enables seamless data transfers and connectivity within an organization however poor cabling can lead to numerous issues that hamper productivity and business operations network cabling and standards howtonetwork com categorize standard media types and associated properties this chapter describes fiber and copper media type characteristics including media converters distance and speed limitations and related technologies learn more in our comptia network video course back to book index contents hide as the world becomes more connected one thing is clear better cable management is essential for better network performance use these tips and tools to improve the way you organize network cables and forgo spaghetti cabling forever a wired ethernet connection will give you the highest throughput speed the lowest latency and the most stable network connection you can get in your home the only problem with wired ethernet connections is that you will have to pull the cables through your house preferably through the walls

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