

Price of male and female cable connector connection method

Article Overview

Male and female cable connectors typically range from a few cents to over \$50 per unit depending on type, material, and application, and they connect via pin-and-socket or plug-and-receptacle designs.

Pricing Overview

The cost of male and female connectors varies widely based on type, quality, and quantity:

- o Basic wire-to-wire connectors can cost \$0.10-\$2 per piece when purchased in bulk .
- o Industrial-grade or multi-contact connectors may range from \$10 to \$50 or more per unit .
- o Online retailers like Mouser and Amazon provide unit pricing with quantity discounts, and tariffs may apply depending on shipping location .
- o Specialized connectors, such as MC4 solar connectors, have region-specific pricing, e.g., in Nigeria, prices vary depending on supplier and delivery options .

Connection Methods

Male and female connectors are designed to form a secure electrical connection:

- o Male connector: Features a protruding pin or blade.
- o Female connector: Contains a socket or receptacle that accepts the male pin.
- o When mated, they create a stable electrical path that resists vibration, maintains conductivity, and prevents accidental disconnection .

Common Types of Connection

- o Plug-and-socket: Standard for most electronics and automotive wiring; the male plug inserts into the female socket.
- o Soldered connections: Pins or sockets are soldered to wires for permanent, high-reliability connections .
- o Crimped connections: Wires are mechanically crimped to the connector terminals, common in industrial and automotive applications .
- o Field-attachable connectors: Allow assembly on-site with screw or push-fit mechanisms, useful for modular or outdoor installations .

Applications

- o Automotive wiring harnesses
- o LED lighting and home electronics

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o Industrial machinery and control panels

o Audio/video systems Selecting the right connector depends on current rating, environmental resistance, and mechanical durability. Bulk purchasing is recommended for large projects to reduce cost while ensuring consistent quality .

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How to Use MC4 Connectors and MC4 Extension Cables NOTE: There are multiple types of interlocking PV connectors. This article

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Mouser Electronics is an authorized electronic component distributor offering online ordering and no minimum orders.

Schematic symbols for male and female connector pins In electrical and mechanical trades and

Male vs female connectors explained - explore design, function, uses, interchangeability,

The plug-type connectors are typically divided into two parts as male and female, commonly referred to as the gender of the

In connector terminology, "female connector" and "male connector" are commonly used to

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The female connector is usually found on the end of a cable, and it slips inside of a plastic shell which surrounds the male pins on the

Male and female connectors are mating components in electrical and electronic systems. A

Real-Life Examples USB: Your USB cable has a male connector plugged into your

Understanding the Difference Between Male and Female Adapters and Connectors

Web: <https://in-au.co.za>

