RJ Connector

RJ Connector

Variants

RJ11 RJ45

Details

RJ11 Connector – Product Overview

> The RJ11 connector is a standardized telecommunications interface widely used for connecting telephone equipment such as telephones, fax machines, modems, and DSL routers to a telephone line. It provides a simple and reliable connection method for voice communication systems in residential and commercial environments.

Description

The RJ11 connector features a compact rectangular design with either four or six metal contacts arranged in a single row. It is smaller than an RJ45 connector and is specifically designed for telephony applications. The connector is used with flat or round telephone cables containing four or six conductors.

In typical installations, only two wires are required for basic telephone communication. However, additional wires can be used for extended functionality such as secondary lines or powering auxiliary devices. The connector ensures secure and stable transmission of analog voice signals.

Key Characteristics

Parameter	Details
Connector Type	RJ11 (Registered Jack)

Parameter	Details
Positions	4 or 6 positions
Conductors	2, 4, or 6 wires
Application	Telephone, Fax, Modem, DSL Router
Cable Type	Flat or Round Telephone Cable
Compatibility	Standard Telephone Wall Jacks
Standard	FCC Registered Jack (RJ) Standard
Typical Use	Voice Communication Line Connection

Usage & Application

RJ11 connectors are commonly used in homes, offices, and small businesses for connecting telecommunication devices to service provider lines. They are widely deployed in PSTN systems, DSL internet connections, and legacy communication infrastructure.

The connector supports reliable signal transmission and is easy to install, making it a cost-effective solution for traditional voice and low-speed data communication systems.

Color Coding

In standard telephone wiring, color coding helps identify line connections. Typically, red and green wires are used for the primary line, while yellow and black wires may be used for secondary lines or additional functions depending on the installation requirements.

Conclusion

The RJ11 connector remains an essential component in telecommunication systems, offering a simple, standardized, and reliable method for connecting voice communication devices. Its compact size, ease of use, and wide compatibility make it a fundamental part of traditional networking infrastructure.

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