

Article Overview

D-type bus connectors, commonly known as D-subminiature connectors, are versatile electrical connectors widely used in various applications, particularly in industrial and electronic systems.

What are D-Type Connectors?

D-type connectors are characterized by their distinctive D-shaped metal shell, which provides mechanical support and ensures correct orientation during connection. They typically feature two or more parallel rows of pins or sockets, which can vary in number and configuration depending on the specific type of D-sub connector .

Types and Variants

- o Standard D-Sub Connectors: These include the commonly used 9-pin (DE-9) and 25-pin (DB-25) connectors, which were historically used for serial communication in computers .
- o High-Density D-Sub Connectors: These connectors offer more pins in a smaller footprint, making them suitable for applications where space is limited .
- o Mixed D-Sub Connectors: These connectors can combine different types of signals, such as power and data, within a single connector housing .
- o Specialized D-Sub Connectors: Variants designed for specific applications, such as military or high-frequency use, often include additional features like EMI shielding and ruggedized designs .

Applications

D-type connectors are used in a wide range of applications, including:

- o Industrial Automation: For connecting sensors, actuators, and control systems .
- o Computer Systems: Historically used for serial and parallel ports, they are still found in various computing applications .
- o Telecommunications: Used for data transmission in networking equipment .
- o Medical Devices: Employed in diagnostic and monitoring equipment due to their reliability and durability .

Conclusion

D-type bus connectors are a reliable and versatile choice for many electronic and industrial applications. Their various configurations and robust design make them suitable for demanding environments, ensuring effective signal transmission and connectivity. For specific needs, it is essential to select the appropriate type based on the application requirements, such as pin count, size, and environmental considerations .

D-type bus connector

D-SUB connectors take their name from their characteristic D-shaped shell, which protects both sides of

Explore the different types of D-Sub connectors, their benefits, and diverse applications. Read on to deepen your knowledge and

D-Sub connectors When using HARTING's D-Sub connectors for the PCB however, you are not limited to only transmitting bus

For many years, the D-Sub (also referred to by its full name, the D-subminiature connector) has provided a proven solution for bus

TruConnect D Type Connector TruConnect D Type Connectors are reliable and cost-effective solutions for various connectivity

D-SUB series is specifically designed for use in CAN systems. Under field conditions, it enables the quick and easy connection of the

The D-type connector is the recommended connector for IP20 installations (in the switch cabinet).

CONEC D-SUB connectors are available in five standardized housing sizes in the variants D-SUB

D-subminiature or D-sub connectors are sturdy electrical connectors with a mating face shaped like the letter D. The connection has

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The standard density D-Subminiature series are widely used for numerous applications in many market segments. Amphenol offers

Find the D-sub connectors you need. Designed for multiple applications, our products meet the rugged

Manufactured using original Deutsch DT Series connectors. Encapsulated, plug & play design.

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