

Power Cord



Components and Functions

Plug: Part with prongs that fits into an electrical socket.

Connector: End of the cord that attaches to the appliance.

Cable: Flexible insulated wire connecting the plug and connector, containing hot, neutral and ground wires.

Insulation: Protective outer coating that prevents damage and electric shock.

Types of Wires

- Hot Wire – Carries electrical current from the outlet.
- Neutral Wire – Returns current to complete the circuit.
- Ground Wire – Provides a safe path during faults to reduce electric shock risk.

Overview

A power cord is an electrical cable used to connect an appliance to a power source. It safely delivers electricity through insulated conductors, ensuring reliable operation for a wide range of electrical and electronic equipment.