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Electrical Wires: Manufacturing & Market Guide

Electrical wires are conductors (primarily copper or aluminum) that safely transmit electricity from one location to another. These wires are insulated with materials such as PVC, XLPE, rubber, or halogen-free compounds to ensure safety and efficiency.



Uses of Electrical Wires



Domestic

Homes and apartments



Industrial

Manufacturing and machinery



Power

Transmission and distribution

Additional applications include automobile and EV wiring harnesses, telecommunication and data cables, and various construction and infrastructure projects.

Indian Price vs Export Price

Indian Wholesale Price

₹153.190 per meter

Varies based on:

Wire type

Copper thickness

Insulation quality

Export Price

₹1803.1400 per meter

Premium features include:

- Higher quality materials
- Flame retardant properties
- International standard compliance



Electrical Wire Products

Copper Electrical Wires

Aluminum Electrical Wires

PVC Insulated Wires

XLPE Wires

Cross-linked Polyethylene

FR/FRLS Wires

FlameRetardant,Low Smoke

Specialty Cables

Armoured&Unarmoured, Solar, EV, Data

Main Production States in India

Maharashtra

Mumbai,Pune,Nashik

Gujarat

Ahmedabad, Surat, Valsad

Delhi NCR

Faridabad,Noida, Ghaziabad

Tamil Nadu

Chennai, Coimbatore

Rajasthan

Jaipur, Alwar, Bhiwadi

West Bengal

Kolkata, Howrah

Machinery for Wire Manufacturing

- 1 Wire Drawing Machines
- 2 Annealing Furnace
- 3 Stranding Machines
- 4 Insulation Extrusion Lines
For PVC and XLPE materials
- 5 Armouring & Braiding Machines
- 6 Testing & Packaging Equipment
High voltage testing, coiling machines



Manufacturing Hubs in India

Delhi NCR
Noida, Faridabad, Ghaziabad

West Bengal
Kolkata, Howrah

Maharashtra
Mumbai, Pune, Nashik

Gujarat
Ahmedabad, Surat, Valsad

Tamil Nadu
Chennai, Coimbatore



Major Wholesale Markets



Key Markets Across India

- **Delhi:** Bhagirath Palace
- **Mumbai:** Lamington Road
- **Kolkata:** Chandni Chowk Electrical Market
- **Chennai:** Richie Street
- **Ahmedabad:** Manek Chowk
- **Bengaluru:** SP Road

Quality Grades of Electrical Wires

Economy Grade

Local/domestic wires with simple PVC insulation

Standard Grade

ISI-marked copper/aluminium wires with flame-retardant insulation

Premium Grade

XLPE, FRLS, eco-friendly halogen-free wires

Industrial/Export Grade

IEC, UL, RoHS certified heavy-duty wires for international markets





Quality Certifications & Testing

Required Certifications

- ISICertification (BIS StandardIS 694)
- IEC/UL Certification (for exports)
- RoHS & REACH Compliance (EU market)

Essential Tests

- FlameRetardant&Fire Safety
- Conductor Resistance & Voltage Drop
- High Voltage Withstand
- Durability & Insulation Resistance

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