



ATTA METALS



ABOUT US



Atta Metals (Pvt.) Ltd. is a family-owned business trusted by leading manufacturers and end-users across Pakistan for its commitment to delivering quality products with integrity and dependability. As one of Pakistan's leading electrical conductor and winding wire manufacturers along with being an ISO 9001 certified company, we have continued to set the standard for excellence and innovation over the last 5 decades.

At Atta Metals, we invest in state-of-the-art equipment and innovative production techniques, ensuring that we consistently meet and exceed the expectations of our valued customers.

OUR PRODUCTS

We supply a wide range of electrical conductors

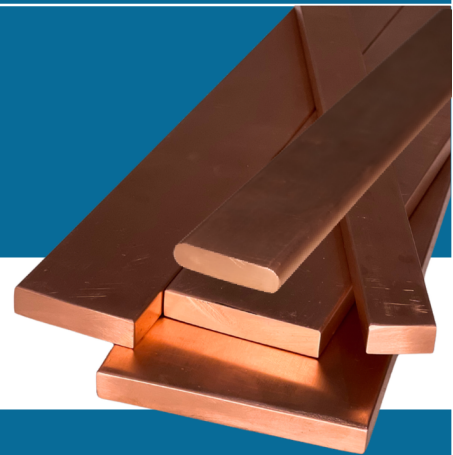
**Oxygen Free
Copper Rod**



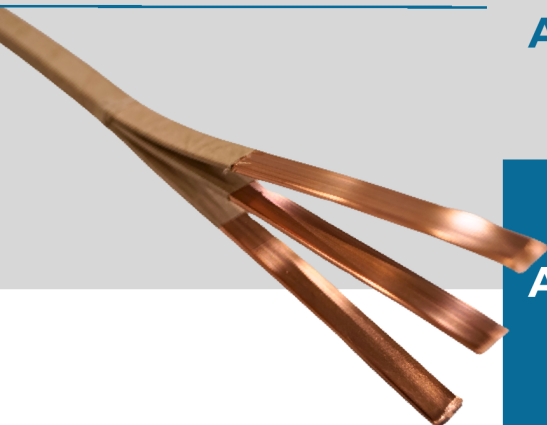
**Enamelled Copper /
Aluminium Wire**



**Electrolytic Grade
Copper Busbars**



**Paper Insulated Copper /
Aluminium Conductor**



**Bare Copper /
Aluminium Conductor**



ATTA METALS

OXYGEN-FREE COPPER ROD

Unmatched Purity and Conductivity

Our Oxygen-Free Copper Rod, made from 99.99% pure A-Grade Copper Cathodes and adhering to ASTM B49-98 standards, typically delivers over 101% IACS conductivity — perfect for demanding applications.

Our OFC rod ensures long-term reliability by eliminating hydrogen embrittlement, making it perfect for high-performance, precision applications.



Key Features

Excellent Electrical Conductivity: Minimum 100% conductivity, ideal for high-performance electrical applications.

Low Oxygen Content: Max 10ppm, ideal for enameled wires, superfine wires, data communication wires, strips, and shaped wires.

Premium Raw Material: Casted from LME registered A-grade Copper Cathodes.

Capacity: 5,000 tonnes annually, sizes from 8.0 mm to 20.0 mm diameter.



ENAMELLED COPPER / ALUMINUM WIRE

High Dielectric Precision Insulation

Our Enamelled wires, made from Oxygen Free Copper, eliminate oxidized impurities, saving space while ensuring high breakdown voltage. Widely used in motor and transformer windings, they are essential in the electrical industry.

Key Specifications

Conductivity: Electrolytic Grade, minimum 100% IACS.

Thermal Class and Insulation: Insulation classes range from 120°C to 200°C for specific temperature needs.

International Standards: Adherence to IEC 60317

Chemical Resistance: Customizable to meet application-specific needs.

Diameter Range: From 0.5 - 2.5mm

Applications

Enamelled Copper & Aluminium wires are essential in

- **Transformer Windings:** Offers excellent electrical insulation and efficient space utilization.
- **Motor Windings:** Provides reliable operation and extended lifespan.



COPPER BUSBAR

Precision and Quality to International Standards

Our Oxygen-Free Electrolytic-Grade Copper Busbars conforming to **ASTM B187 / EN 13601** specifications are crucial for efficient power distribution, offering excellent conductivity, reliability and mechanical properties for handling high current in electrical systems.

Types of Busbars

Flat Bars: Ideal for compact, efficient designs.

Square Bars: Perfect for applications requiring uniform cross-sectional strength.

Round Bars: Commonly used in power distribution systems.

Flexible Bars: Connecting where Busbars are unable to.

Key Specifications

Dimensions: Available in various sizes
From 3 - 10 mm thickness and 10 - 100mm width

Electrical Conductivity: Minimum 100% IACS ensuring high efficiency and minimal energy loss.

Standards: Adheres to **ASTM B187 / EN13601**

Temper: Soft / Half Hard / Hard



Applications

Copper busbars are essential in

Switchgear: Ensuring reliable operation and minimal power losses.

Power Distribution: Facilitating stable and reliable power transfer

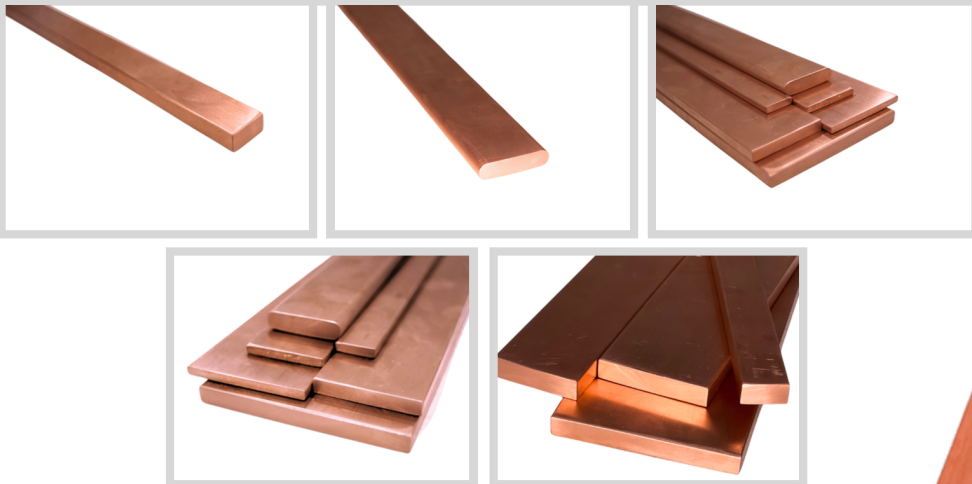
Transformers: Ensuring reliable, efficient connections

Electrical Motors and Generators: For crucial connections of high current paths

Earthing Protection: Offering robust grounding of electrical systems

Why Choose Us?

Atta Metals is a trusted partner delivering high-quality, custom-shaped copper products with precise cuts to desired lengths and tailored packaging. Our efficient production process guarantees competitive delivery times and flexible batch sizes to meet fast-paced customer demands.



ATTA METALS

PAPER INSULATED COPPER / ALUMINUM CONDUCTOR

Insulated for Exceptional Reliability

Our insulated Conductors are designed to comply with IEC 60317 standards, offering excellent performance. This makes them ideal for use in transformers, motors, and generators. The type and thickness of the insulation covering can be customised to meet specific requirements, ensuring optimal performance based on the thermal, chemical, and mechanical properties of various insulation materials.



Strength and Durability

Paper-insulated Copper / Aluminum conductors are renowned for their strength and tear resistance, ensuring long-term durability in various demanding applications.

Dimensions

Flat Strip: Available in various dimensions
Thickness (0.6 - 8mm), Width (3 - 20mm)

Round Wire: Available in various diameters
From 2 - 20mm.



Custom Manufacturing to Your Specifications

We manufacture to exact dimensions, providing insulation to your preferred wrapping configurations:

- **Wrapping Options:** Choose from butt wrapped, overlapped, or customised Paper-wrapping configurations.
- **Paper Types:** We offer a variety of paper options including Kraft, Nomex, Kapton, and Mica.
- **Conductor Types:** We offer both Copper and Aluminum conductors in single, twin and triple configurations along with flexible conductors

Applications

Paper Covered Conductors are essential in

- **Oil-Filled Transformers:** Providing reliable insulation and durability.
- **Dry-type Transformers:** High dielectric strength, Effective cooling and Insulation for high thermal reliability.
- **Motors & Generators:** Advanced insulation ensures peak performance, thermal stability and lasting durability.



BARE COPPER / ALUMINIUM CONDUCTOR

Connecting Where Busbars are Unable to.

Bare copper and aluminum conductors, including flexible options, ensure efficient electrical transmission. Copper offers high conductivity, while aluminum provides a lighter, cost-effective choice.



Dimensions

Solid (Round / Flat): Round (0.5 - 8mm) / Flat (0.5 x 3mm) - (5 x 15mm)

Flexible (Round / Flat): Round (15 - 300mm²) /
Flat (0.5 x 10mm) - (1 x 100mm)

Applications

- **Solid:** Overhead Transmission, Grounding and Special Applications
- **Flexible:** Industrial Equipment, Transformers, Switchgear and Custom Requirements



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