



LAHOTIRAJ METALS PRIVATE LIMITED

Product Catalogue

Copper wire rod · fine wire · bunched conductor · poly wire
submersible cable · house wire · ingots · strips

COPPER PURITY

99.99%

PRODUCT LINES

8

EXPERIENCE

40+ years

EDITION

2026



Manufacturer and exporter of copper wire, rod and cable.

Lahotiraj Metals Private Limited manufactures and exports copper wire rod, fine wire, bunched conductor, poly wire, submersible flat cable, house wire, ingots and strips — backed by more than 40 years in the metal trade.

What we do

Copper is melted, cast, drawn, bunched, taped and extruded on our own floor in Bhilwara, Rajasthan. Because every stage is in-house, conductivity and finish are controlled end to end rather than inherited from a supplier.

All sizes and gauges listed in this catalogue are available. Sizes outside the tables are manufactured to customer requirement.

Quality

- 99.99% pure copper cathode stock
- Electrical conductivity $\geq 101\%$ IACS
- Oxygen content ≤ 10 ppm (OFC grade)
- ISO 9001:2015 certified quality system
- Qualified engineers and operators on every line

The range at a glance

PRODUCT	SIZE RANGE	DESCRIPTION
Copper Wire Rod	12.50 mm – 0.8 mm	Continuous-cast rod drawn down through our own RBD lines.
Fine Wire	0.180 mm – 0.254 mm	Precision fine-drawn and bright-annealed copper wire supplied on bobbins, ready for bunching.
Bunched Copper Conductor	0.50 – 6.00 sq mm	Multi-strand bunched copper rope, twisted on our own bunching machines to a uniform lay.
Poly Wire / Poly Cable	0.8 mm – 2.0 mm	Polyester-taped copper wire for submersible pump and motor winding applications.
Flat / Submersible Cable	1.50 – 6.00 sq mm	Three-core flat submersible cable extruded in-house, in 8, 9 and 10 gauge constructions.
House Wire	0.50 – 6.00 sq mm	PVC-insulated single-core house wire in five standard colours, extruded on our own lines.
Copper Ingots	Cast to order	Cast copper ingots from our own furnace — the same raw material that feeds our rod line, also sold directly to outside buyers.
Copper Strips	Rolled to order	Flat rolled copper strip in coil and cut lengths, made from the same 99.

Copper Wire Rod

12.50 mm – 0.8 mm

Continuous-cast rod drawn down through our own RBD lines. The starting point for every conductor we make.

Produced in-house on our upcaster from 99.99% pure copper, then reduced through rod-breakdown drawing. Available in bundle weights from 2–4 tonne coils down to 30 kg spools.

- Cable manufacturing
- Transformer windings
- Busbar & earthing
- Onward drawing



TECHNICAL SPECIFICATION

Product	Oxygen-Free Copper Rod
Material Grade	OFC
Copper Content	≥ 99.99% Cu
Oxygen Content	≤ 10 ppm (high-purity OFC)
Electrical Conductivity	≥ 101% IACS
Electrical Resistivity @ 20°C	≤ 0.01707 Ω·mm²/m
Tensile Strength	As per customer / specification
Elongation	As per customer / specification
Density	Approx. 8.94 g/cm³
Manufacturing Process	Continuous casting
Drawability	Excellent, suitable for fine wire drawing

COPPER WIRE ROD – SIZES & BUNDLE WEIGHTS

SIZE	SINGLE BUNDLE WEIGHT
12.50 mm	2 – 4 ton
8.00 mm	1.5 – 3.5 ton
5.30 mm	100 – 250 kg
3.70 mm	100 – 200 kg
2.00 mm	30 – 100 kg
1.90 mm	30 – 100 kg
1.80 mm	30 – 100 kg
1.70 mm	30 – 100 kg
1.60 mm	30 – 100 kg
1.50 mm	30 – 100 kg
1.40 mm	30 – 100 kg
1.30 mm	30 – 100 kg
1.20 mm	30 – 100 kg
1.10 mm	30 – 100 kg
1.00 mm	30 – 100 kg
0.90 mm	30 – 100 kg
0.80 mm	30 – 100 kg

Fine Wire

0.180 mm – 0.254 mm

Precision fine-drawn and bright-annealed copper wire supplied on bobbins, ready for bunching.

Drawn on our fine-wire lines down to 0.160 mm. Bright annealing gives high ductility and a clean, oxide-free surface for consistent stranding.

- Flexible conductors
- Winding wire
- Braiding & shielding
- Precision cable cores

All sizes below are available.



TECHNICAL SPECIFICATION

Material	Oxygen-Free Copper (OFC)
Copper Purity	≥ 99.99% Cu
Oxygen Content	≤ 10 ppm
Electrical Conductivity @ 20°C	≥ 101% IACS
Resistivity @ 20°C	≤ 0.01707 Ω·mm ² /m
Wire Diameter	From 0.18 mm, as per customer requirement
Diameter Tolerance	As per customer / specification
Surface Finish	Smooth, clean, bright; free from cracks, pits, scratches and oxidation
Tensile Strength	As per customer / specification
Elongation	As per customer / specification

FINE WIRE – SIZES & BOBBIN WEIGHTS

SIZE	WEIGHT PER BOBBIN
1/0.180	5 – 7 kg
1/0.192	5 – 7 kg
1/0.210	5 – 7 kg
1/0.220	5 – 7 kg
1/0.234	5 – 7 kg
1/0.254	5 – 7 kg

Bunched Copper Conductor

0.50 – 6.00 sq mm

Multi-strand bunched copper rope, twisted on our own bunching machines to a uniform lay.

Strand counts from 16 to 84 wires. Consistent lay length and tension across the bunch mean predictable resistance and flexibility batch after batch.

- Flexible cable cores
- Automotive harnesses
- Appliance wiring
- Panel wiring

All sizes below are available.



TECHNICAL SPECIFICATION

Product	Bunched Copper Conductor
Material	Oxygen-Free Copper (OFC)
Copper Purity	≥ 99.99% Cu
Oxygen Content	≤ 10 ppm
Electrical Conductivity @ 20°C	≥ 101% IACS
Resistivity @ 20°C	≤ 0.01707 Ω·mm²/m
Construction	As per customer requirement
Strand Diameter	As per customer requirement
No. of Strands	As per required cross-sectional area
Bunch Lay	As per required cross-sectional area
Cross-Sectional Area	As specified
Diameter / Tolerance	As per customer specification
Tensile Strength	As per strand diameter and temper
Elongation	As per applicable standard
Electrical Resistance	As per cross-sectional area and applicable standard
Packing	Coil / spool / drum as required

BUNCHED CONDUCTOR – SIZES

SIZE	CONDUCTOR CONSTRUCTION
0.50 sq mm	16/0.200
0.75 sq mm	24/0.200
1.00 sq mm	32/0.200
1.50 sq mm	30/0.250
2.50 sq mm	50/0.250
4.00 sq mm	56/0.300
6.00 sq mm	84/0.300

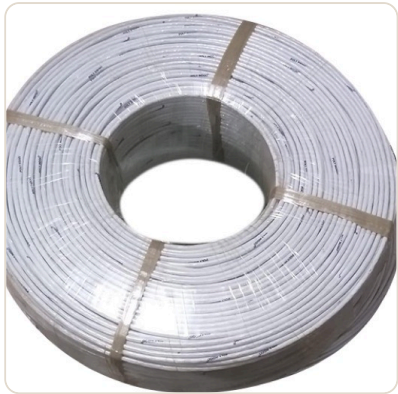
Poly Wire / Poly Cable

0.8 mm – 2.0 mm

Polyester-taped copper wire for submersible pump and motor winding applications.

Taped on our own taping lines directly after drawing. Supplied in bundles of 8–15 kg depending on gauge.

- Submersible pump winding
- Motor winding
- Transformer coils



TECHNICAL SPECIFICATION

Product	OFC Grade Poly Winding Wire
Conductor Material	Oxygen-Free Copper (OFC)
Copper Purity	≥ 99.99% Cu
Oxygen Content	≤ 10 ppm
Electrical Conductivity	≥ 101% IACS
Conductor Resistivity @ 20°C	≤ 0.01707 Ω·mm ² /m
Conductor Shape	Round
Insulation	Polymeric / polyamide-imide based insulation, as required
Insulation Thickness	0.35 mm
Overall Diameter	As per specified conductor size + insulation
Surface Finish	Smooth, uniform and free from pinholes, cracks and mechanical defects
Heat Resistance	Suitable for submersible motor operating temperature
Moisture Resistance	Excellent
Flexibility	Excellent

POLY WIRE – SIZES & BUNDLE WEIGHTS

SIZE	WEIGHT PER BUNDLE
0.8 mm	8 – 12 kg
0.9 mm	8 – 12 kg
1.0 mm	10 – 15 kg
1.1 mm	10 – 15 kg
1.2 mm	10 – 15 kg
1.3 mm	10 – 15 kg
1.4 mm	10 – 15 kg
1.5 mm	10 – 15 kg
1.6 mm	10 – 15 kg
1.7 mm	10 – 15 kg
1.8 mm	10 – 15 kg
1.9 mm	10 – 15 kg
2.0 mm	10 – 15 kg

Flat / Submersible Cable

1.50 – 6.00 sq mm

Three-core flat submersible cable extruded in-house, in 8, 9 and 10 gauge constructions.

Built on our own extrusion lines from conductor we bunched ourselves — so the copper content is verified at every stage, not taken on trust from a supplier.

- Submersible pumps
- Borewell installations
- Agricultural pumping
- Industrial drives

All sizes available in both blue and black.



TECHNICAL SPECIFICATION

Product	Submersible Flat Cable
Conductor Material	Oxygen-Free Copper (OFC)
Copper Purity	≥ 99.99% Cu
Oxygen Content	≤ 10 ppm
Electrical Conductivity @ 20°C	≥ 101% IACS
Conductor Type	Multi-strand flexible copper conductor
No. of Cores	3 core
Conductor Sizes	2.5, 4, 6 mm ² and as required
Voltage Rating	1100 V
Temperature Rating	As per applicable standard
Water / Moisture Resistance	Excellent
Flexibility	Excellent
Abrasion Resistance	High
Flame Retardancy	As per applicable standard
Surface	Smooth, uniform and free from defects
Standard	IS 694 / applicable IS/IEC requirements
Packing	Coil / drum as required

FLAT / SUBMERSIBLE CABLE – CONDUCTOR CONSTRUCTION BY GAUGE

SIZE	8 GAUGE	9 GAUGE	10 GAUGE
1.50 sq mm	21/0.205	21/0.234	21/0.254
2.50 sq mm	35/0.205	35/0.234	35/0.254
4.00 sq mm	55/0.205	55/0.234	55/0.254
6.00 sq mm	84/0.205	84/0.234	84/0.254

House Wire

0.50 – 6.00 sq mm

PVC-insulated single-core house wire in five standard colours, extruded on our own lines.

Flexible bunched copper conductor with PVC insulation, produced end-to-end in our plant from rod through to finished coil.

- Domestic wiring
- Commercial buildings
- Panel & control wiring
- Conduit installations



TECHNICAL SPECIFICATION

Product	OFC Grade House Wire
Conductor Material	Oxygen-Free Copper (OFC)
Copper Purity	≥ 99.99% Cu
Oxygen Content	≤ 10 ppm
Electrical Conductivity @ 20°C	≥ 101% IACS
Conductor Type	Fine-stranded / flexible copper conductor
Insulation Material	FR grade PVC
Insulation	Flame-retardant PVC
Voltage Rating	450 / 750 V
Heat Resistance	Suitable for electrical installation service conditions
Available Sizes	0.75, 1.0, 1.5, 2.5, 4, 6, 10 mm ² and as required
Standards	IS 694 / applicable IEC requirements

HOUSE WIRE – SIZES, CONDUCTOR & COLOURS

SIZE	CONDUCTOR SIZE	COLOURS
0.50 sq mm	16/0.200	Red, Yellow, Green, Blue, Black
0.75 sq mm	24/0.200	Red, Yellow, Green, Blue, Black
1.00 sq mm	32/0.200	Red, Yellow, Green, Blue, Black
1.50 sq mm	30/0.250	Red, Yellow, Green, Blue, Black
2.50 sq mm	50/0.250	Red, Yellow, Green, Blue, Black
4.00 sq mm	56/0.300	Red, Yellow, Green, Blue, Black
6.00 sq mm	84/0.300	Red, Yellow, Green, Blue, Black

Copper Ingots

Cast to order

Cast copper ingots from our own furnace — the same raw material that feeds our rod line, also sold directly to outside buyers.

Scrap is sorted by grade, charged into our furnace, melted and skimmed, then poured into moulds on our own floor. Because we cast for our own rod production, every ingot we sell comes off the same melt discipline we hold ourselves to.

- Foundry remelt
- Rod & billet casting
- Alloy production
- Onward manufacturing



Specification

Purity, ingot weight and dimensions are confirmed per order — tell us your requirement and we will quote against it.

Tell us the specification you need and we will quote against it.

Copper Strips

Rolled to order

Flat rolled copper strip in coil and cut lengths, made from the same 99.99% cathode-grade copper as our rod.

Rolled down from our own cast copper, with clean edges and an even gauge along the full length of the coil. Because the melt and the rolling both happen on our floor, the conductivity and finish are controlled end to end rather than inherited from a supplier.



- Busbars & earthing strip
- Transformer windings
- Switchgear & panel work
- Electrical components

Specification

Thickness, width, temper and coil weight are rolled to order — send us your specification and we will quote against it.

Tell us the specification you need and we will quote against it.

Registrations we hold.

CERTIFICATE	ISSUED BY	REFERENCE
Certificate of Incorporation	Ministry of Corporate Affairs	U46699RJ2024PTC096339
Udyam (MSME) Registration	Ministry of MSME	UDYAM-RJ-07-0091781
Importer-Exporter Code	DGFT, Ministry of Commerce	AAFCL9233J
ISO 9001:2015 Certified	Quality Research Organization	305025040464Q
Sanstha Aadhaar (SAN) Card	Govt. of Rajasthan — Statistics	0956280000000271

How to order

1. Send the product, size or gauge, and quantity required.
2. We confirm availability, rate and lead time — usually the same working day.
3. Material is packed to your requirement: coil, spool, drum or bundle.

Lahotiraj Metals Private Limited

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Working hours

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All sizes listed in this catalogue are available. Sizes and constructions outside these tables are manufactured to customer requirement. Specifications are typical values and may be confirmed against your standard at the time of order.