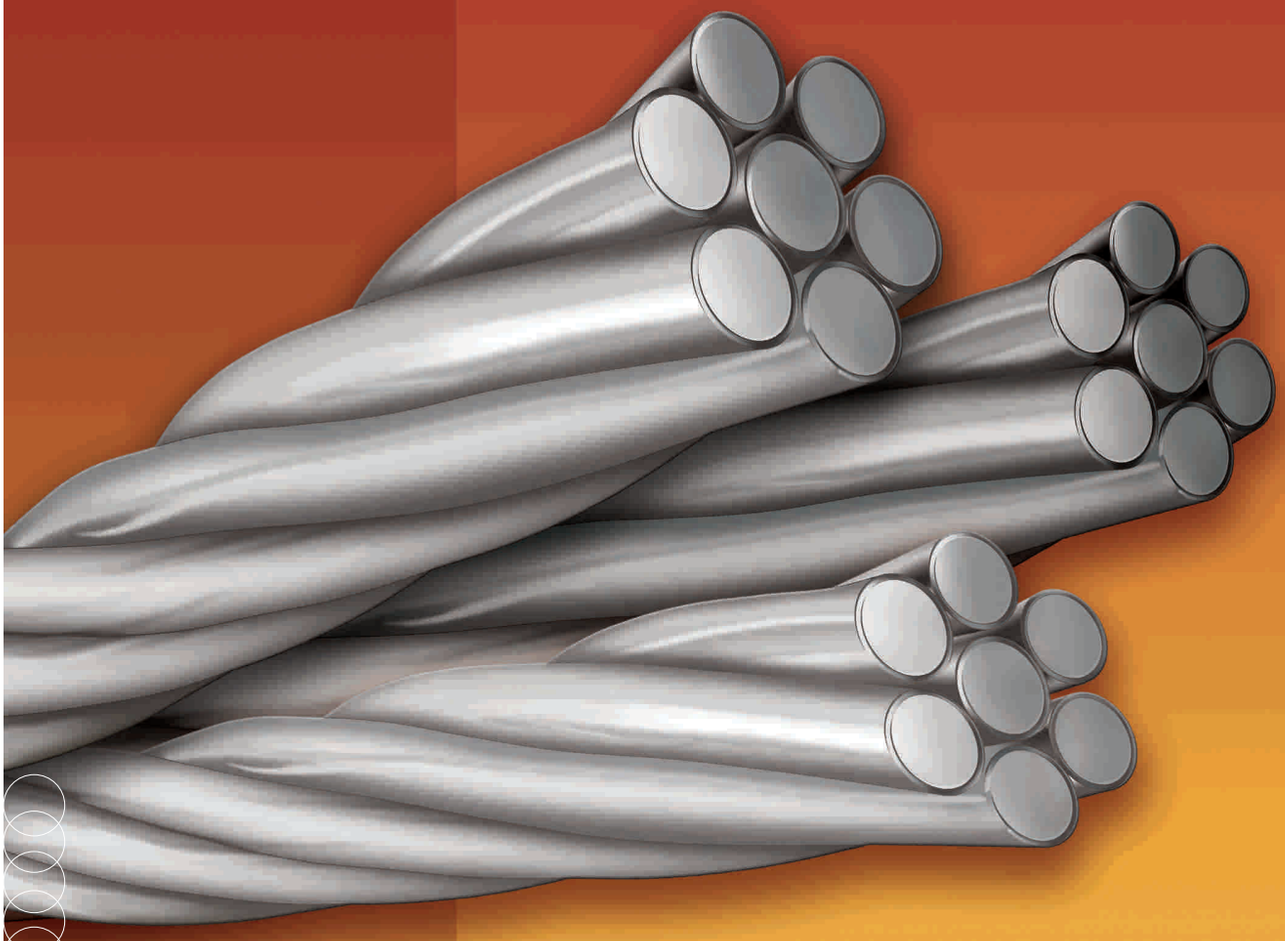

Aluminum Clad Steel Wire

The Aluminum Clad Steel Wire is composed by round reinforced steel and uniform aluminum layer outside.
It is applied in core of aluminum stranded wire, aluminum clad steel stranded wire, cable compound overhead ground lead.

Aluminum Clad Steel Wire possesses the following characteristics and capabilities:

- Wider variety of properties and size of steel wire, thickness of aluminum cladding, and quality of aluminum (cross sectional area ratio of the aluminum in AS wire covers approximately 13% to 85% while that designated in ASTM B415-92 is fixed at 25%);
- Wider range of combinations of tensile strength and conductivity;
- High corrosion resistance due to thick EC-grade aluminum covering;
- Sufficiently strong bonding strength at the boundary between aluminum layer and steel core;
- Lighter in weight than galvanized and aluminized steel wire;
- Excellent thermal stability for continuous operation in high temperature;
- Availability of wider variety of products:
  - AS wires of complex cross section;
  - AS wires of approximately 1.2 mm to 10 mm in diameter;
  - Mild AS wires with tensile strength of approximately 50 to 70 kg/square mm suitable for net fence;
  - Green-coated AS wires especially suitable for net fence with regard to harmonization with nature and background;
  - Barbed AS wire.

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ASTMB505-93

Nominal Diameter		Calculated cross section area	Min tensile strength	Calculated breaking load	Min coating thickness	D.C resistence at 20ºC	Weight
mm	AWG	mm²	Mpa	kN	mm	Ω/km ≤	Kg/Km
2,052	12	3,307	1340	4,5	0,103	25,64	21,80
2,304	11	4,169	1340	5,6	0,115	20,34	27,49
2,589	10	5,260	1340	7,1	0,130	16,12	34,66
2,904	9	6,633	1340	8,9	0,145	12,78	43,65
3,264	8	8,367	1340	11,2	0,163	10,14	55,14
3,477	7	9,495	1310	12,4	0,174	8,93	62,57
3,665	7	10,55	1280	13,5	0,183	8,04	69,48
3,934	6	12,16	1240	15,1	0,197	6,93	80,13
4,115	6	13,30	1210	16,0	0,206	6,38	87,62
4,392	5	15,15	1170	17,7	0,220	5,60	99,84
4,620	5	16,76	1140	19,1	0,231	5,06	110,50
4,775	4	17,91	1100	19,7	0,239	4,73	118,0
5,189	4	21,15	1070	22,6	0,259	4,01	139,34

Coppral Products

COPPRAL CABLE & WIRE INDUSTRIES is specialized in supplying products from China since 1994. We participate in the market as Manufacturers and Traders, specially for segments of:

• Telecommunication • Energy Transmission • Data Transmission

OUR MAIN PRODUCTS ARE:

- Copper Clad (and Plated) Wires and Stranded Wires, several diameters and DC electrical resistances, several standards: Q/320412 HTR003-2003; ASTM B452-02; ASTM B227-02; BS4087-1989;
- Copper Clad Aluminum Wires: diameters from 5,15mm to 0,12mm, several standards SJ/T11223-200; ASTM B566-93;
- Aluminum Clad Steel: Wires and Stranded Wires, reinforced, SJ/T11223-2000; ASTM B566-93;
- Aluminum Alloy: 5154, 6201, others, Wires and Stranded Wires;
- All Aluminum Conductor, Aluminum-Clad Steel reinforced, main technical parameters of ACSR (AW);
- Galvanized Steel Wire and Stranded, Class A;
- Steel and Stainless Steel Bolts & Nuts;
- Aluminum Foil, by Cu, AL, Steel, Polyester and other composite tapes employed as cable's shields and water-blocking (Polyacrylate Swelling Powder);
- Coaxial Cable RG6, RG11 and RG59, finished and semi-finished;
- LAN Cable;
- Drop Wire cable;
- Power Cable, OPGW, Submarine Cable, Optical Fiber and Accessories;
- High Speed Braid Machinery: vertical, horizontal, equipment for complete plants;
- Drawing Machinery for CCAW and CCSW, complete plants.

COPPRAL developed products with Assured Quality (AQ) and supplying involves all steps since factory production, delivery to Chinese Ports, sea freight contracting and CFR delivering to client's country.

Its market is based on Latin American and African countries, mainly for Brazilian market, where is supported by BANCOR INTERNACIONAL LTDA., based in São Paulo city, SP.

Deliveries are rigidly complied and costs are very competitive all over the world.

COPPRAL CABLE WIRE INDUSTRIES es especializada en suministros de productos hechos en China, desde 1994, con participación en el mercado, como Productor y Trader, con atención a los seguimientos siguientes:

• Telecomunicación • Transmisión de energía • Transmisión de datos.

NUESTROS PRINCIPALES PRODUCTOS SON:

- Acero Cobreado (cinta de cobre y/o electrodeposición) en hilos y en cables torcidos, en diferenciados diámetros así como en las distintas especificaciones de resistencias óhmicas, observadas normas técnicas Q/320412 HTR003-2003; ASTM B452-02; ASTM B227-02; BS4087-1989;
- Aluminio Cobreado (cinta de cobre) en hilos y en cables, en todas las especificaciones constructivas de acuerdo a las normas técnicas: SJ/T11223-200 – ASTM B566-93;
- Acero Aluminio con la aplicación de camadas uniformes de aluminio en hilos de acero y cables torcidos, observadas las normas técnicas: SJ/T11223-2000; ASTM B566-93;
- Aluminio-Liga: 5154, 6201, otras especificaciones, en hilos e cables;
- Conductor de Aluminio, Acero Alunizado reforzado, según parámetros de ACSR (AW);
- Acero Galvanizado hilos y cables, Classe A;
- Tornillos y tuercas in Acero Inoxidable y al Carbón;
- Cintas bimetálicas en Cu, AL, Steel, Poliester, ALPET y otras composiciones de cintas empleadas en blindaje de cables y bloqueo de humedad (Polyacrylate Swelling Powder);
- Cables Coaxiales RG6, RG11, RG59, terminados o semi-terminados;
- Cables LAN;
- Cable doble para teléfonos;
- Cable de Energia, OPGW, Submarinos, Cables Ópticos e accesorios;
- Tranzadera de alta producción: vertical, horizontal, equipos completos de una planta;
- Trefiladeras para plantas de Acero cobreado y aluminio cobreado.

COPPRAL desenvolvió productos con la Calidad Asegurada (QA) y los suministros envuelven todos los pasos desde la fábrica productora, despacho y embarque en el puerto en China, contratación de flete marítimo, hasta CFR al puerto de destino.
Su mercado esta basado en países de America Latina y Africa, principalmente para el mercado Brasileño, donde esta representada por la empresa BANCOR INTERNACIONAL LTDA, São Paulo, SP. Los embarques de órdenes son cumplidos rígidamente y los costos son competitivos en todo el mundo.

All in Copper, Steel & Aluminum

- Electronic
- Electrical
- Radio Frequency
- Data Transmission
- Telecommunication
- Energy Transmission
- Raw Material and Semi-finished

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