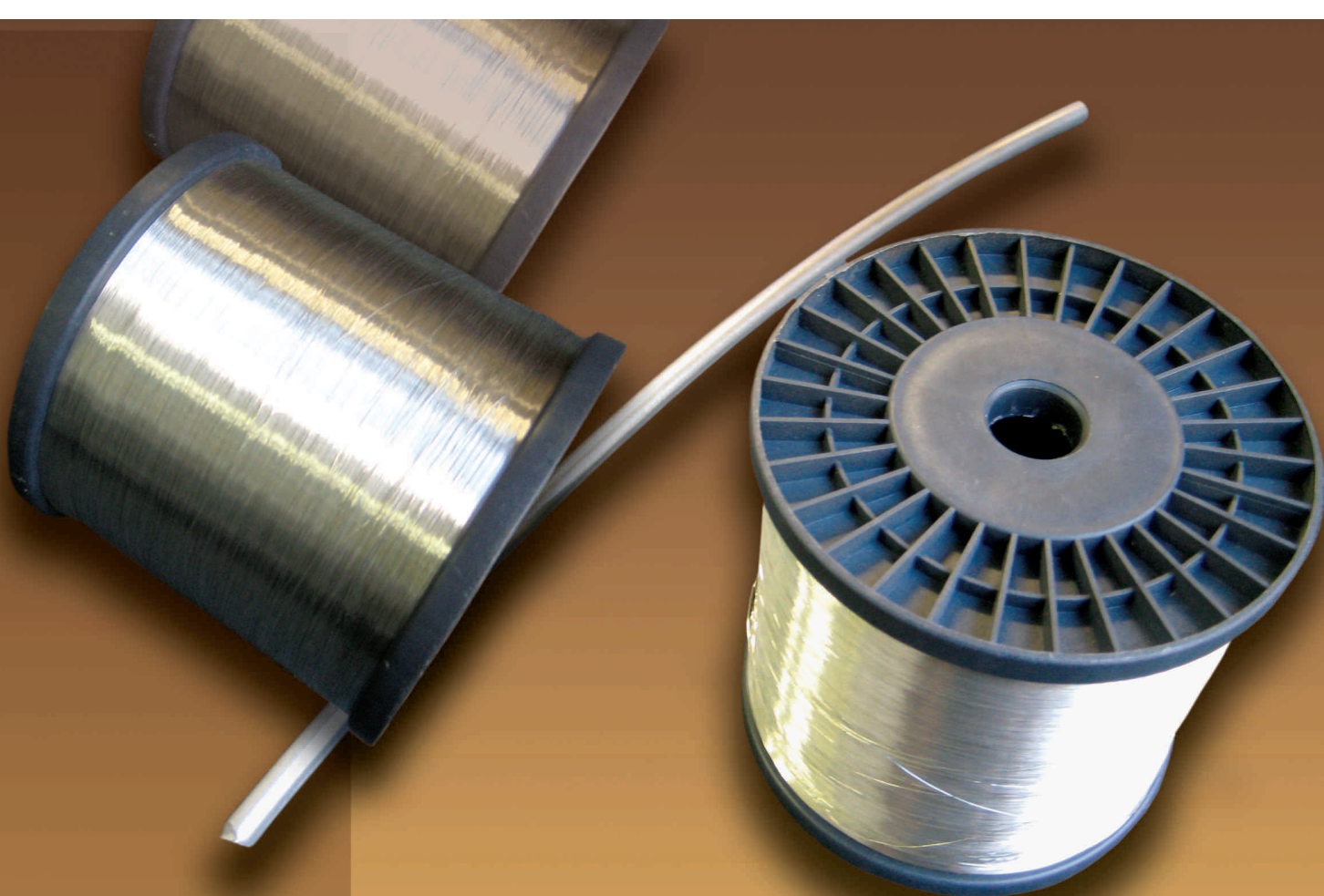




Aluminum Alloy Wire



The aluminum alloy wires are environmentally friendly, can be used safely in shield braiding of coaxial cables, TV cable and communication cable to decrease the cost of cables. The products are diameter 0.12mm, 0.13mm, 0.14mm, 0.15mm, 0.16mm wires.

The Aluminum Alloy Wire can also be used in weather, bridge and sea facilities, chemical equipment and ships. We can produce many specification. The extension and tensile strength can be made to order.

Features:

- Si: 0.45, Fe: 0.45, Cu: 0.10, Mn: 0.10, Mg: 3.1 - 3.9, Cr: 0.15 - 0.35, Zn: 0.35, Ti: 0.06 - 0.2;
- Rods or wire on spools;
- Made of high-quality pure metal with advanced smelting workmanship and through strict quality control;
- Minimizing harmful impurity elements including copper, calcium, sulfur, zinc, aluminum and iron.



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Standard	Chemistry Elements (%)												
	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Else		Al
											Single	Total	
1350	0,10	0,40	0,05	0,01	-	0,01	/	0,05	/	/	0,03	0,10	99,5
4043	4,5-6,0	0,80	0,30	0,05	0,05	/	/	0,10	0,20	/	0,05	0,15	Remaining
4043A	4,5-6,0	0,60	0,30	0,15	0,20	/	/	0,10	0,15	/	0,05	0,15	Remaining
4047	11,0-13,0	0,80	0,30	0,15	0,10	/	/	0,20	/	/	0,05	0,15	Remaining
4047A	11,0-13,0	0,60	0,30	0,15	0,10	/	/	0,20	0,15	/	0,05	0,15	Remaining
5005	0,30	0,70	0,20	0,20	0,50-1,1	0,10	/	0,25	/	/	0,05	0,15	Remaining
5050	0,40	0,70	0,20	0,10	1,1-1,8	0,10	/	0,25	/	/	0,05	0,15	Remaining
5056	0,30	0,40	0,10	0,05-0,20	4,5-5,6	0,05-0,20	/	0,10	/	/	0,05	0,15	Remaining
5154	0,25	0,40	0,10	0,10	3,1-3,9	0,15-0,35	/	0,20	0,20	/	0,05	0,15	Remaining
5154A	0,50	0,50	0,10	0,50	3,1-3,9	0,25	/	0,20	0,20	/	0,05	0,15	Remaining
5356	0,25	0,40	0,10	0,05-0,20	4,5-5,5	0,05-0,20	/	0,10	0,06-0,20	/	0,05	0,15	Remaining
6061	0,40-0,80	0,70	0,15-0,40	0,15	0,8-1,2	0,04-0,35	/	0,25	0,15	/	0,05	0,15	Remaining
6063	0,20-0,60	0,35	0,10	0,10	0,45-0,9	0,10	/	0,10	0,10	/	0,05	0,15	Remaining
6201	0,5-0,9	0,50	0,10	0,03	0,6-0,9	0,03	/	0,10	/	/	0,05	0,15	Remaining

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.

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• Telecomunicación • Transmisión de energía • Transmisión de datos.

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- 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;
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- Acero Galvanizado hilos y cables, Clase 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);
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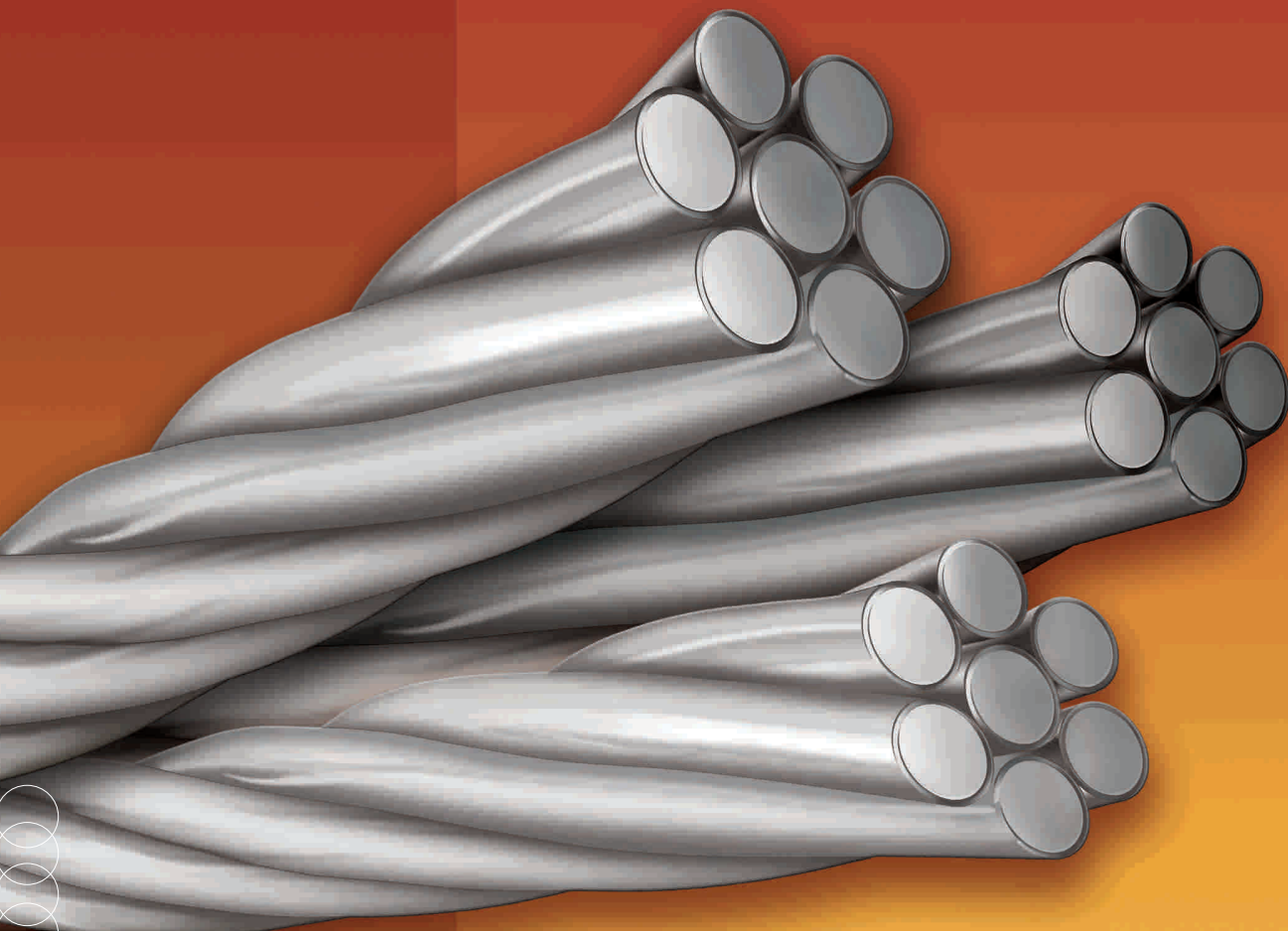
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All in Copper,
Steel &
Aluminum

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



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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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Nominal Diameter		Calculated cross section area	Min tensile strength	Calculated breaking load	Min coating thickness	D.C resistance at 20°C	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

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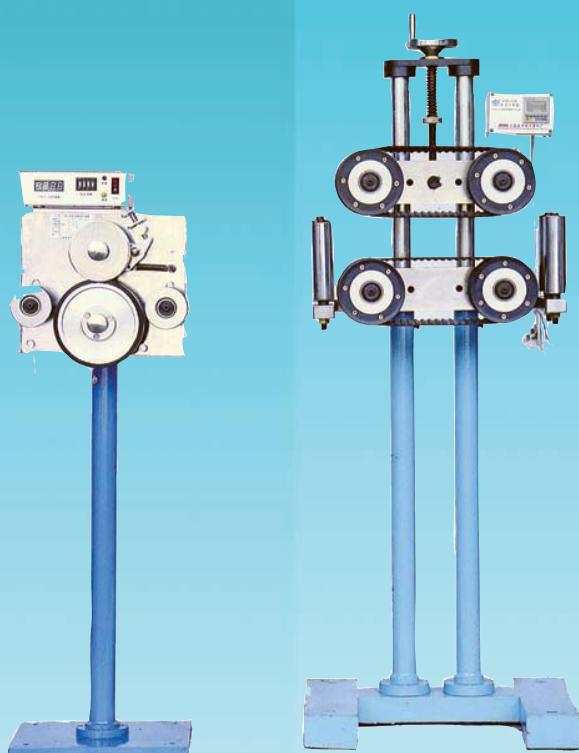
Amazon Ultra-Thin Thread Braider

This series high speed braider adopts the frequency conversion technology: PLC-touch screen and has advanced technologies as stepless servo system adjusting, controllable tension adjusting, stepless frequency speed adjusting, auto-lubricating quantitatively and comprehensive malfunction protection, etc. It also has many characteristics as high bobbin speed, high precision, high stability, low power consumption and low noise. It applies to ultra-thin thread. The whole machine is of a good shape and is very convenient for operation and maintenance. There are many expand forms such as SCM, and CE configuration for the customers choice.



Technical data

Braiding form	2 over 2
Braiding direction	Vertical
Bobbin numbers	16 carriers
Bobbin speed	0~120r/min (stepless adjusting)
Braiding pitch	2~60mm (adjusting precision)
Braiding outer diameter	12mm
Suitable braiding thread	0.03~0.08mm
Specification of take up & pay-off bobbin	400mm
Bobbin speed (max)	120r.p.m.
Total power	2Kw
Configuration size	1250*1250*1950mm
Weight approx	650kg



Metering device series products

The metering device series is a new-style that can effectively test of the wires & cables. It can do the length testing and length fixing on the wire & cable in the produce-line or under rewinding condition. Then the length of wire & cable will be correctly tested and controled.

Machines are built in several capacities and high speed, from 16 to 24 bobbins.

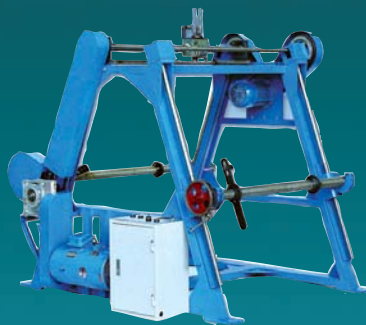


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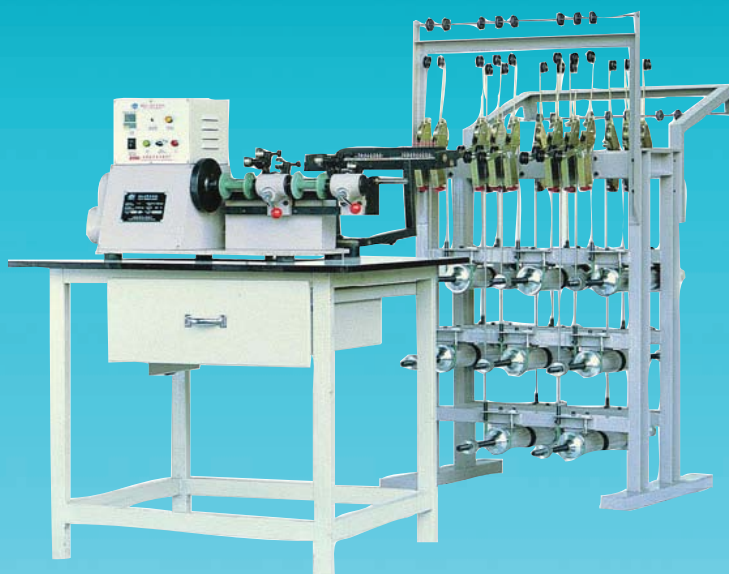


Horizontal high speed braiders

This series of braiders adopt the variable frequency technology with PLC-touch screen and has advanced technologies as stepless speed adjusting, automatic tension adjusting, auto-lubricating quantitatively and comprehensive malfunction protection. It's equipped with security cover that can reduce the noise. It also has characteristics as high bobbin speed, high precision, high stability, low power consumption and low noise. It applies to braid steel thread of large diameter, large length cable and tube. The whole machine is of a good shape and is very convenient for operation and maintenance. It can form large diameter wires, produced with traction and take-up & pay-off. There are many expand forms such as SCM, outer type pay-off & take-up for the customers choice.

Rewinding machine

Rewinding machine is specialized for rewinding process before braiding. It adopts the frequency conversion technology and has advanced technologies as stepless speed adjusting, wirebreakage/malfunction protection, etc. It applies for rewinding copper thread, nylon thread and steel thread, with passive or active pay-off. It also has many characteristics as high bobbin speed, high precision, high stability, low power consumption and low noise. The whole machine is of a good shape, compact and has a reasonable configuration, good rewinding quality, high productivity effect and is very convenient for operation and maintenance. There are many expanding forms such as CE, for the customers choice.



Vertical taping machine

This series of products are vertical taping machines, such as single-head, double-head or three-head to wrap punch tape, aluminum tape, mica tape on inner wire. All rotating direction is same and reverse, and can do single or double taping. The machine is for producing communication cables, control cables and anti-fire cables.

The taping machine is awarded as "Products Of Trust Quality" by China equipment industry association. The certificate number is 2006249.

**Nanyang
technology
adapted to
tropical climates
of Latin America
and Africa.**

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BANCOR

fios e cabos de energia



O atual cenário nos setores de Energia e Telecomunicação exige o emprego das tecnologias e materiais mais avançadas, com constantes investimentos em P&D.

A China foi o país que mais investiu em infraestrutura energética, principalmente em equipamentos para a produção de Fios e Cabos em alto nível tecnológico, contando hoje com um parque industrial maduro, com atendimento a maior parte dos projetos sendo implantados em todo o mundo.

O mercado Brasileiro está em franco desenvolvimento na implantação de produtos com Qualidade Assegurada (Q.A.) exigindo fornecimentos crescentes e pontuais, a custos compatíveis.

Para atender a demanda de produtos no mercado brasileiro, Bancor associou-se à:
COPPRAL CABLE & WIRE INDUSTRIES LTD.
Hong Kong, China, fornecedora de material em qualidade Assegurada (Q.A.), ISO-9001 e certificações internacionais, operando no Brasil com fornecimentos regulares, desde 2003.

Alumínio : AA5154, 6201, 1350
Bimetálicos: CCAM, ACS, CCSW
Fios e Cordoalhas Galvanizadas: Classe A e Classe B
Cabos CA, ASC, ACSR, AACSR, Isolados PE e XLPE, OPGW
Acessórios e Isoladores
Aços: Ferramentas, Molas e Forjados
Máquinas Industriais: Trefilas, Extrusoras, Trançadeiras, Torcedoras.



Nossa estrutura na China e no Brasil, permitem atendimento imediato e eficaz:



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Nosso prazo médio de entrega em porto brasileiro é de 57 dias.

欢迎中国的企业家来到巴西

INTRODUCING OUR GROUP 1

BANCOR INTERNATIONAL 巴西

- 2 **COPPRAL CABLE & WIRE INDUSTRIES 香港**
- 3 **BANCOR OF CHINA 中国**
- 4 **CHK HOLDING 巴西**

1 BANCOR INTERNATIONAL 巴西

本公司于 1994 年在巴西成立。我们致力于参与巴西的市场业务：工业品及其批发。主营来自中国的如下产品：

用于通信及电力工业的动力电缆及线材
机械设备
科学技术

时至今日 **BANCOR** 公司已经为巴西及南美洲国家的客户稳定地供应上述产品

2 COPPRAL CABLE & WIRE INDUSTRIES 香港

本公司是一家贸易公司，只要从事从中国采购产品供应巴西客户。我们对每一个订单都有严格的质量监控。同时 **COPPRAL** 公司也作为投资者对中国的一些生产企业进行投资。

3 BANCOR 中国

本公司于一年前扎根于中国。经营巴西对中国的出口业务。主要是消费品。

4 CHK HOLDING :

本公司于今年由 **COPPRAL CABLE & WIRE** – 香港公司投资，在巴西成立。主要是帮助在巴西投资的投资者，以共同持股的方式合作。

许多中国企业家开始投资海外市场。我们欢迎您来我们 **CHK HOLDING** 公司。我们将帮助您最正确的投资。

WELCOME CHINESE ENTERPRISERS TO BRASIL

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1 BANCOR INTERNATIONAL 巴西

BANCOR –Brasil was founded in 1994 in Brazil and is responsible to attend Brazilian clients: Industries and Holesalers with chinese products, as per:

Power & Telecom Cables and Wires, for Telecommunication and Energy transmission. Machineries.

Latest Technology from China.

Nowadays **BANCOR** participates in Brazilian and South American markets. 2

COPPRAL CABLE & WIRE INDUSTRIES – Hong Kong 香港

This is a Trading Company operating for over 8 years , purchasing products from China and supplying to Brazilian clients, under restrict care about quality and orders success.

Also **COPPRAL** act as investor for several activities for Chinese factories.

3 BANCOR OF CHINA – China 中国

This company was implanted this past year, to promote exporting from Brazil to China, mainly for consumption products as food and related.

4 CHK HOLDING LTDA Brazil

CHK HOLDING was established in Brazil, with capital from **COPPRAL Hong Kong** and others investors interested to participate in Brazilian Market activities, as shareholders. Many Chinese enterprisers going to invest outside of China will be **WELCOME** to **CHK HOLDING** to assist you properly.

ACSR Aluminum Conductor. Steel Reinforced

ASTM B232

SI Unit

Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (mm)				Weight kg/km			Content %		Rated Strength (kN)	Resistance OHMS/1000m		Allowable Ampacity
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20℃	AC@ 75℃	
			Al	St.											
Turkey	6	6/1	1.68	1.68	1.68	5.03	36.46	17.25	53.7	67.88	32.12	5.29	2.1030	2.6443	105
Swan	4	6/1	2.12	2.12	2.12	6.35	57.88	27.39	85.3	67.88	32.12	8.28	1.3222	1.6896	140
Swanate	4	7/1	1.96	2.62	2.62	6.53	57.85	41.7	99.6	58.11	41.89	10.50	1.3090	1.7027	140
Sparrow	2	6/1	2.67	2.67	2.67	8.03	92.12	43.59	136	67.88	32.12	12.68	0.8333	1.0892	184
Sparate	2	7/1	2.47	3.30	3.30	8.26	92.16	66.46	159	58.1	41.9	15.39	0.8235	1.1089	184
Robin	1	6/1	3.00	3.00	3.00	8.99	116.3	55.01	171	67.88	32.12	15.79	0.6594	0.8793	212
Raven	1/0	6/1	3.37	3.37	3.37	10.11	146.6	69.35	216	67.88	32.12	19.49	0.5216	0.7119	242
Quail	2/0	6/1	3.78	3.78	3.78	11.35	184.6	87.37	272	67.88	32.12	23.62	0.4134	0.5774	276
Pigeon	3/0	6/1	4.25	4.25	4.25	12.75	232.7	110.1	343	67.88	32.12	29.45	0.3281	0.4724	315
Penguin	4/0	6/1	4.77	4.77	4.77	14.30	293.7	139.0	433	67.88	32.12	37.15	0.2608	0.3904	357
Waxwing	266.8	18/1	3.09	3.09	3.09	15.47	371.8	58.38	430	86.43	13.57	30.61	0.2110	0.2582	449
Partridge	266.8	26/7	2.57	2.00	6.00	16.31	374.0	171.9	546	68.51	31.49	50.27	0.2090	0.2556	475
Ostrich	300	26/7	2.73	2.12	6.37	17.27	420.2	193.2	613	68.51	31.49	56.50	0.1860	0.2274	492
Merlin	336.4	18/1	3.47	3.47	3.47	17.37	469.2	73.61	543	86.44	13.56	38.62	0.1673	0.2051	519
Linnet	336.4	26/7	2.89	2.25	6.74	18.29	471.0	216.5	687	68.51	31.49	62.73	0.1657	0.2028	529
Oriole	336.4	30/7	2.69	2.69	8.07	18.82	472.7	310.6	783	60.35	39.65	76.97	0.1647	0.2011	535
Chickadee	397.5	18/1	3.77	3.77	3.77	18.87	554.3	87.03	641	86.43	13.57	44.22	0.1417	0.1736	576
Brant	397.5	24/7	3.27	2.18	6.54	19.61	557.1	203.9	761	73.21	26.79	64.96	0.1411	0.1726	584
Ibis	397.5	26/7	3.14	2.44	7.33	19.89	556.6	255.8	812	68.51	31.49	72.52	0.1404	0.1716	587
Lark	397.5	30/7	2.92	2.92	8.77	20.47	558.4	366.9	925	60.35	39.65	90.31	0.1394	0.1703	594
Pelican	477	18/1	4.14	4.14	4.14	20.68	665.4	104.4	770	86.44	13.56	52.50	0.1181	0.1450	646
Flicker	477	24/7	3.58	2.39	7.16	21.49	668.8	244.7	913	73.21	26.79	76.52	0.1175	0.1440	655
Hawk	477	26/7	3.44	2.67	8.03	21.79	668.0	307.1	975	68.51	31.49	86.76	0.1168	0.1430	659
Hen	477	30/7	3.20	3.20	9.61	22.43	670.3	440.4	1111	60.35	39.65	105.9	0.1161	0.1421	666
Osprey	556.5	18/1	4.47	4.47	4.47	22.33	775.8	121.7	898	86.43	13.57	60.95	0.1010	0.1243	711

ACSR Aluminum Conductor. Steel Reinforced
ASTM B232
SI Unit

Code Word	Size kcmil	Stranding (Al/St.)	Diameter mm				Weight kg/km			Content %		Rated Strength (kN)	Resistance OHMS/1000m		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20℃	AC@ 75℃	
			Al	St.											
Parakeet	556.5	24/7	3.87	2.58	7.73	23.22	780.1	285.5	1066	73.21	26.79	88.01	0.1007	0.1234	721
Dove	556.5	26/7	3.72	2.89	8.67	23.55	780.1	358.6	1139	68.51	31.49	100.5	0.1004	0.1230	726
Eagle	556.5	30/7	3.46	3.46	10.38	24.21	781.9	513.7	1296	60.35	39.65	123.6	0.0994	0.1220	734
Peacock	605	24/7	4.03	2.69	8.07	24.21	848.3	310.6	1159	73.2	26.8	96.01	0.0925	0.1135	760
Squab	605	26/7	3.87	3.01	9.04	24.54	847.5	389.5	1237	68.51	31.49	108.0	0.0922	0.1132	765
WoodDuck	605	30/7	3.61	3.61	10.82	25.25	850.0	558.4	1408	60.35	39.65	128.5	0.0915	0.1122	774
Teal	605	30/19	3.61	2.16	10.82	25.25	850.0	546.6	1397	60.86	39.14	133.4	0.0915	0.1122	773
Kingbird	636	18/1	4.78	4.78	4.78	23.88	887.3	139.3	1027	86.43	13.57	69.79	0.0886	0.1089	773
Swift	636	36/1	3.38	3.38	3.38	23.62	886.9	69.63	956	92.72	7.28	60.85	0.0889	0.1096	769
Rook	636	24/7	4.14	2.76	8.27	24.82	891.3	326.16	1217	73.21	26.79	97.79	0.0879	0.1083	784
Grosbeak	636	26/7	3.97	3.09	9.27	25.17	891.2	409.6	1301	68.51	31.49	112.0	0.0876	0.1076	789
Scoter	636	30/7	3.70	3.70	11.09	25.88	893.61	587.1	1481	60.35	39.65	135.1	0.0840	0.1066	798
Egret	636	30/19	3.70	2.22	11.09	25.88	893.86	575.1	1469	60.85	39.15	140.0	0.0873	0.1070	798
Flamingo	666.6	24/7	4.23	2.82	8.47	25.40	934.57	342.0	1277	73.21	26.79	105.3	0.0840	0.1033	807
Gannet	666.6	26/7	4.07	3.16	9.49	25.76	934	429.3	1363	68.51	31.49	117.3	0.0837	0.1027	812
Stilt	715.5	24/7	4.39	2.92	8.77	26.31	1003.2	366.9	1370	73.22	26.78	113.3	0.0784	0.0965	844
Starling	715.5	26/7	4.21	3.28	9.83	26.70	1002.8	460.9	1464	68.51	31.49	126.2	0.0781	0.0958	849
Redwing	715.5	30/19	3.92	2.35	11.77	27.46	1004.4	646.2	1651	60.85	39.15	153.8	0.0774	0.0951	859
Coot	795	36/1	3.77	3.77	3.77	26.42	1108.7	87.05	1196	92.72	7.28	74.28	0.0712	0.0879	884
Drake	795	26/7	4.44	3.45	10.36	28.12	1114.6	512.3	1627	68.51	31.49	140.0	0.0702	0.0863	907
Tern	795	45/7	3.38	2.25	6.75	27.00	1113.9	217.4	1331	83.67	16.33	98.23	0.0709	0.0883	887
Condor	795	54/7	3.08	3.08	9.25	27.74	1114	407.6	1522	73.21	26.79	125.3	0.0705	0.0892	889
Mallard	795	30/19	4.14	2.48	12.41	28.96	1117.4	718.6	1836	60.86	39.14	170.7	0.0699	0.0856	918
Ruddy	900	45/7	3.59	2.40	7.18	28.73	1261.2	246.2	1507	83.67	16.33	108.5	0.0627	0.0784	958
Canary	900	54/7	3.28	3.28	9.84	29.51	1261.6	461.4	1723	73.22	26.78	141.8	0.0623	0.0791	961

ACSR Aluminum Conductor. Steel Reinforced

ASTM B232

SI Unit

Code Word	Size kcmil	Stranding (Al/St.)	Diameter mm				Weight kg/km			Content %		Rated Strength (kN)	Resistance OHMS/1000m		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Rail	954	45/7	3.70	2.47	7.40	29.59	1337.1	261.0	1598	83.67	16.33	115.1	0.0591	0.0738	993
Cardinal	954	54/7	3.38	3.38	10.13	30.38	1336.8	489.2	1826	73.21	26.79	150.2	0.0587	0.0748	996
Ortolan	1033.5	45/7	3.85	2.57	7.70	30.78	1447.6	282.5	1730	83.67	16.33	123.1	0.0548	0.0686	1043
Curlew	1033.5	54/7	3.51	3.51	10.54	31.62	1447.6	529.7	1977	73.21	26.79	162.7	0.0541	0.0692	1047
Bluejay	1113	45/7	4.00	2.66	7.99	31.95	1560.7	304.6	1865	83.67	16.33	132.5	0.0509	0.0636	1092
Finch	1113	54/19	3.65	2.19	10.94	32.82	1568.8	559.2	2128	73.72	26.28	173.8	0.0505	0.0646	1093
Bunting	1192.5	45/7	4.14	2.76	8.27	33.07	1671.4	326.2	1998	83.67	16.33	142.2	0.0472	0.0597	1139
Grackle	1192.5	54/19	3.77	2.27	11.32	33.96	1679.9	598.9	2279	73.72	26.28	186.2	0.0472	0.0604	1140
Bittern	1272	45/7	4.27	2.85	8.54	34.16	1782.4	347.9	2130	83.67	16.33	151.6	0.0443	0.0561	1184
Pheasant	1272	54/19	3.90	2.34	11.70	35.08	1791.9	639.1	2431	73.71	26.29	153.8	0.0443	0.0568	1187
Dipper	1351.5	45/7	4.40	2.93	8.80	35.20	1893.9	369.64	2264	83.67	16.33	160.9	0.0417	0.0531	1229
Martin	1351.5	54/19	4.02	2.41	12.05	36.17	1903.2	678.5	2582	73.72	26.28	205.8	0.0417	0.0535	1232
Bobolink	1431	45/7	4.53	3.02	9.06	36.25	2005.2	391.4	2397	83.67	16.33	170.2	0.0394	0.0502	1272
Lapwing	1590	45/7	4.78	3.18	9.55	38.20	2228.9	435.0	2664	83.67	16.33	187.6	0.0354	0.0456	1354
Falcon	1590	54/19	4.36	2.62	13.08	39.22	2240.1	798.6	3039	73.72	26.28	242.3	0.0354	0.0459	1359
Chukar	1780	84/19	3.70	2.22	11.09	40.69	2508.8	575.0	3083	81.35	18.65	226.7	0.0318	0.0410	1453
Bluebird	2156	84/19	4.07	2.44	12.21	44.75	3035.4	696.4	3732	81.34	18.66	268.0	0.0263	0.0344	1623
Kiwi	1098	72/7	4.41	2.94	8.81	44.07	3052.8	370.4	3423	89.18	10.82	221.4	0.0263	0.0348	1607

ACSR			High Strength				ASTM B232					SI Unit			
Code Word	Size kcmil	Stranding (Al/St.)	Diameter mm				Weight kg/km			Content %		Rated Strength	Resistance OHMS/1000m		Allowable Ampacity
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Grouse	80	8/1	2.54	4.23	4.23	9.32	111.8	109.7	221.5	50.48	49.52	23.11	0.6791	0.9646	204
Petrel	101.8	12/7	2.34	2.34	7.02	11.71	142.7	234.9	377.6	37.79	62.21	46.23	0.5184	0.8202	237
Minorca	110.8	12/7	2.44	2.44	7.33	12.22	155.2	255.9	411.1	37.75	62.25	50.23	0.4757	0.7710	248
Leghorn	134.6	12/7	2.69	2.69	8.07	13.46	188.6	310.6	499.2	37.79	62.21	60.45	0.3937	0.6693	273
Guinea	159	12/7	2.92	2.92	8.77	14.63	222.8	366.9	589.7	37.79	62.21	71.12	0.3314	0.5938	297
Dotterel	176.9	12/7	3.08	3.08	9.25	15.42	247.9	408.1	656.1	37.79	62.21	76.90	0.2989	0.5545	312
Dorking	190.8	12/7	3.20	3.20	9.61	16.00	267.5	440.4	707.8	37.79	62.21	83.12	0.2772	0.5249	324
Cochin	211.3	12/7	3.37	3.37	10.11	16.84	296.3	487.6	783.9	37.8	62.2	126.2	0.2503	0.4921	340

Currency rating conditions: Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 0.6m/sec.and in sun.
Allowable ampacity is calculated for reference only.

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ACSR

ASTM B232

Inch-pound Unit

Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (in.)				Weight per 1000ft (lbs)			Content %		Rated Strength (lbs)	Resistance OHMS/1000ft.		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20℃	AC@ 75℃	
			Al	St.											
Turkey	6	6/1	0.0661	0.0661	0.0661	0.198	24.5	11.6	36.1	67.88	32.12	1190	0.641	0.806	105
Swan	4	6/1	0.0834	0.0834	0.0834	0.25	38.9	18.4	57.3	67.88	32.12	1860	0.403	0.515	140
Swanate	4	7/1	0.0772	0.103	0.103	0.257	38.9	28.0	66.9	58.11	41.89	2360	0.399	0.519	140
Sparrow	2	6/1	0.1052	0.1052	0.1052	0.316	61.9	29.3	91.2	67.88	32.12	2850	0.254	0.332	184
Sparate	2	7/1	0.0974	0.1298	0.1298	0.325	61.9	44.7	106.6	58.1	41.9	3460	0.251	0.338	184
Robin	1	6/1	0.1181	0.1181	0.1181	0.354	78.1	37.0	115.1	67.88	32.12	3550	0.201	0.268	212
Raven	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.5	46.6	145.1	67.88	32.12	4380	0.159	0.217	242
Quail	2/0	6/1	0.1489	0.1489	0.1489	0.447	124.1	53.7	182.8	67.88	32.12	5310	0.126	0.176	276
Pigeon	3/0	6/1	0.1672	0.1672	0.1672	0.502	156.4	74.0	230.4	67.88	32.12	6620	0.1	0.144	315
Penguin	4/0	6/1	0.1878	0.1878	0.1878	0.563	197.4	93.4	290.8	67.88	32.12	8350	0.0795	0.119	357
Waxwing	266.8	18/1	0.1217	0.1217	0.1217	0.609	249.9	39.2	289.1	86.43	13.57	6880	0.0643	0.0787	449
Partridge	266.8	26/7	0.1013	0.0788	0.2363	0.642	251.4	115.5	366.9	68.51	31.49	11300	0.0637	0.0779	475
Ostrich	300	26/7	0.1074	0.0835	0.2506	0.68	282.4	129.8	412.2	68.51	31.49	12700	0.0567	0.0693	492
Merlin	336.4	18/1	0.1367	0.1367	0.1367	0.684	315.3	49.5	364.8	86.44	13.56	8680	0.051	0.0625	519
Linnet	336.4	26/7	0.1137	0.0885	0.2654	0.72	316.5	145.5	462.0	68.51	31.49	14100	0.0505	0.0618	529
Oriole	336.4	30/7	0.1059	0.1059	0.3177	0.741	317.7	208.7	526.4	60.35	39.65	17300	0.0502	0.0613	535
Chickadee	397.5	18/1	0.1486	0.1486	0.1486	0.743	372.5	58.5	431.0	86.43	13.57	9940	0.0432	0.0529	576
Brant	397.5	24/7	0.1287	0.0858	0.2574	0.772	374.4	137.0	511.4	73.21	26.79	14600	0.043	0.0526	584
Ibis	397.5	26/7	0.1236	0.0962	0.2885	0.783	374.1	171.9	546.0	68.51	31.49	16300	0.0428	0.0523	587
Lark	397.5	30/7	0.1151	0.1151	0.3453	0.806	375.3	246.5	621.8	60.35	39.65	20300	0.0425	0.0519	594
Pelican	477	18/1	0.1628	0.1628	0.1628	0.814	447.2	70.1	517.3	86.44	13.56	11800	0.036	0.0442	646
Flicker	477	24/7	0.141	0.094	0.2819	0.846	449.4	164.5	613.9	73.21	26.79	17200	0.0358	0.0439	655
Hawk	477	26/7	0.1354	0.1053	0.316	0.858	448.9	206.4	655.3	68.51	31.49	19500	0.0356	0.0436	659
Hen	477	30/7	0.1261	0.1261	0.3783	0.883	450.5	295.9	746.4	60.35	39.65	23800	0.0354	0.0433	666
Osprey	556.5	18/1	0.1758	0.1758	0.1758	0.879	521.4	81.8	603.3	86.43	13.57	13700	0.0308	0.0379	711

ACSR

ASTM B232

Inch-pound Unit

Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (in.)				Weight per 1000ft (lbs)			Content %		Rated Strength (lbs)	Resistance OHMS/1000ft.		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20℃	AC@ 75℃	
			Al	St.											
Parakeet	556.5	24/7	0.1523	0.1015	0.3045	0.914	524.3	191.8	716.1	73.21	26.79	19800	0.0307	0.0376	721
Dove	556.5	26/7	0.1463	0.1138	0.3413	0.927	524.2	241.0	765.2	68.51	31.49	22600	0.0306	0.0375	726
Eagle	556.5	30/7	0.1362	0.1362	0.4086	0.953	525.5	345.2	870.7	60.35	39.65	27800	0.0303	0.0372	734
Peacock	605	24/7	0.1588	0.1059	0.3177	0.953	570.1	208.7	778.8	73.2	26.8	21600	0.0282	0.0346	760
Squab	605	26/7	0.1525	0.1186	0.3559	0.966	569.5	261.8	831.3	68.51	31.49	24300	0.0281	0.0345	765
WoodDuck	605	30/7	0.142	0.142	0.426	0.994	571.2	375.3	946.5	60.35	39.65	28900	0.0279	0.0342	774
Teal	605	30/19	0.142	0.0852	0.426	0.994	571.2	367.4	938.6	60.86	39.14	30000	0.0279	0.0342	773
Kingbird	636	18/1	0.188	0.188	0.188	0.94	596.3	93.6	689.9	86.43	13.57	15700	0.027	0.0332	773
Swift	636	36/1	0.1329	0.1329	0.1329	0.93	596.0	46.8	642.8	92.72	7.28	13690	0.0271	0.0334	769
Rook	636	24/7	0.1628	0.1085	0.3256	0.977	599.0	219.2	818.2	73.21	26.79	22000	0.0268	0.033	784
Grosbeak	636	26/7	0.1564	0.1216	0.3649	0.991	598.9	275.3	874.2	68.51	31.49	25200	0.0267	0.0328	789
Scoter	636	30/7	0.1456	0.1456	0.4368	1.019	600.5	394.6	995.1	60.35	39.65	30400	0.0256	0.0325	798
Egret	636	30/19	0.1456	0.0874	0.4368	1.019	600.7	386.5	987.2	60.85	39.15	31500	0.0266	0.0326	798
Flamingo	666.6	24/7	0.1667	0.1111	0.3333	1.014	628.1	229.8	857.9	73.21	26.79	23700	0.0256	0.0315	807
Gannet	666.6	26/7	0.1601	0.1245	0.3736	1.014	627.7	288.5	916.2	68.51	31.49	26400	0.0255	0.0313	812
Stilt	715.5	24/7	0.1727	0.1151	0.3453	1.036	674.2	246.6	920.8	73.22	26.78	25500	0.0239	0.0294	844
Starling	715.5	26/7	0.1659	0.129	0.3871	1.051	673.9	309.8	983.7	68.51	31.49	28400	0.0238	0.0292	849
Redwing	715.5	30/19	0.1544	0.0927	0.4633	1.081	675.0	434.3	1109.3	60.85	39.15	34600	0.0236	0.029	859
Coot	795	36/1	0.1486	0.1486	0.1486	1.04	745.1	58.5	803.6	92.72	7.28	16710	0.0217	0.0268	884
Drake	795	26/7	0.1749	0.136	0.408	1.107	749.1	344.3	1093.4	68.51	31.49	31500	0.0214	0.0263	907
Tern	795	45/7	0.1329	0.0886	0.2658	1.063	748.6	146.1	894.7	83.67	16.33	22100	0.0216	0.0269	887
Condor	795	54/7	0.1213	0.1213	0.364	1.092	748.6	274.0	1022.6	73.21	26.79	28200	0.0215	0.0272	889
Mallard	795	30/19	0.1628	0.0977	0.4884	1.14	751.0	482.9	1233.9	60.86	39.14	38400	0.0213	0.0261	918
Ruddy	900	45/7	0.1414	0.0943	0.2828	1.131	847.6	165.4	1013.0	83.67	16.33	24400	0.0191	0.0239	958
Canary	900	54/7	0.1291	0.1291	0.3873	1.162	847.8	310.1	1157.9	73.22	26.78	31900	0.019	0.0241	961

ACSR

ASTM B232

Inch-pound Unit

Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (in.)				Weight per 1000ft (lbs)			Content %		Rated Strength (lbs)	Resistance OHMS/1000ft.		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Rail	954	45/7	0.1456	0.0971	0.2912	1.165	898.6	175.4	1074.0	83.67	16.33	25900	0.018	0.0225	993
Cardinal	954	54/7	0.1329	0.1329	0.3987	1.196	898.4	328.7	1227.1	73.21	26.79	33800	0.0179	0.0228	996
Ortolan	1034	45/7	0.1515	0.101	0.3031	1.212	972.8	189.9	1162.7	83.67	16.33	27700	0.0167	0.0209	1043
Curlew	1034	54/7	0.1383	0.1383	0.415	1.245	972.8	356.0	1328.8	73.21	26.79	36600	0.0165	0.0211	1047
Bluejay	1113	45/7	0.1573	0.1048	0.3145	1.258	1048.9	204.7	1253.6	83.67	16.33	29800	0.0155	0.0194	1092
Finch	1113	54/19	0.1436	0.0861	0.4307	1.292	1054.3	375.8	1430.1	73.72	26.28	39100	0.0154	0.0197	1093
Bunting	1193	45/7	0.1628	0.1085	0.3256	1.302	1123.3	219.2	1342.5	83.67	16.33	32000	0.0144	0.0182	1139
Grackle	1193	54/19	0.1486	0.0892	0.4458	1.337	1128.9	402.5	1531.4	73.72	26.28	41900	0.0144	0.0184	1140
Bittern	1272	45/7	0.1681	0.1121	0.3362	1.345	1197.8	233.8	1431.6	83.67	16.33	34100	0.0135	0.0171	1184
Pheasant	1272	54/19	0.1535	0.0921	0.4605	1.381	1204.2	429.5	1633.7	73.71	26.29	34600	0.0135	0.0173	1187
Dipper	1352	45/7	0.1733	0.1155	0.3466	1.386	1272.8	248.4	1521.2	83.67	16.33	36200	0.0127	0.0162	1229
Martin	1352	54/19	0.1582	0.0949	0.4746	1.424	1279.0	456.0	1735.0	73.72	26.28	46300	0.0127	0.0163	1232
Bobolink	1431	45/7	0.1783	0.1189	0.3566	1.427	1347.6	263.0	1610.6	83.67	16.33	38300	0.012	0.0153	1272
Lapwing	1590	45/7	0.188	0.1253	0.3759	1.504	1497.9	292.4	1790.3	83.67	16.33	42200	0.0108	0.0139	1354
Falcon	1590	54/19	0.1716	0.103	0.5148	1.544	1505.4	536.7	2042.1	73.72	26.28	54500	0.0108	0.014	1359
Chukar	1780	84/19	0.1456	0.0874	0.4368	1.602	1685.7	386.4	2072.1	81.35	18.65	51000	0.0097	0.0125	1453
Bluebird	2156	84/19	0.1602	0.0962	0.4808	1.762	2039.9	468.0	2507.9	81.34	18.66	60300	0.008	0.0105	1623
Kiwi	2167	72/7	0.1735	0.1157	0.347	1.735	2051.6	248.9	2300.5	89.18	10.82	49800	0.008	0.0106	1607

ACSR		High Strength		ASTM B232						Inch-Pound Unit					
Code Word	Size AWG or kcmil	Stranding (Al/St.)	Diameter (in.)				Weight per 1000ft (lbs)			Content %		Rated Strength (lbs)	Resistance OHMS/1000ft.		Allowable Ampacity (Amps)
			Individual Wires		Steel Core	Cable	Al	St.	Total	Al	St.		DC@ 20°C	AC@ 75°C	
			Al	St.											
Grouse	80	8/1	0. 1	0. 1667	0. 1667	0. 367	75. 2	73. 7	148. 9	50. 48	49. 52	5200	0. 207	0. 294	204
Petrel	101. 8	12/7	0. 0921	0. 0921	0. 2763	0. 461	95. 9	157. 9	253. 8	37. 79	62. 21	10400	0. 158	0. 25	237
Minorca	110. 8	12/7	0. 0961	0. 0962	0. 2885	0. 481	104. 3	172. 0	276. 3	37. 75	62. 25	11300	0. 145	0. 235	248
Leghorn	134. 6	12/7	0. 1059	0. 1059	0. 3177	0. 53	126. 8	208. 7	335. 5	37. 79	62. 21	13600	0. 12	0. 204	273
Guinea	159	12/7	0. 1151	0. 1151	0. 3453	0. 576	149. 8	246. 5	396. 3	37. 79	62. 21	16000	0. 101	0. 181	297
Dotterel	176. 9	12/7	0. 1214	0. 1214	0. 3642	0. 607	166. 6	274. 3	440. 9	37. 79	62. 21	17300	0. 0911	0. 169	312
Dorking	190. 8	12/7	0. 1261	0. 1261	0. 3783	0. 63	179. 8	295. 9	475. 7	37. 79	62. 21	18700	0. 0845	0. 16	324
Cochin	211. 3	12/7	0. 1327	0. 1327	0. 398	0. 663	199. 1	327. 7	526. 8	37. 8	62. 2	28400	0. 0763	0. 15	340

Currency rating conditions: Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 2ft./sec. and in sun.

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ACSR/AW Aluminum conductors, aluminum-clad steel-reinforced

ACSR/AW BS 215:1970

Nominal Aluminum Area mm ²	Name Code	Stranding and wire diameter		Sectional Area of Aluminum mm ²	Total Sectional Area mm ²	Appro. Overall Diameter mm	Appro. Mass kg/km	Calculated DC. resistance @ 20°C Ω/km	Calculated Breaking load kN
		Aluminum mm	AS mm						
25	GOPHER	6/2.36	1/2.36	26.25	30.62	7.08	100.8	1.0349	9.89
30	WEASEL	6/2.59	1/2.59	31.61	36.88	7.77	121.5	0.8592	11.79
40	FERRET	6/3.00	1/3.00	42.41	49.48	9.00	163.0	0.6405	15.66
50	RABBIT	6/3.35	1/3.35	52.88	61.70	10.05	203.2	0.5136	19.06
70	HORSE	12/2.79	7/2.79	73.37	116.2	13.95	243.1	0.3286	63.95
100	DOG	6/4.72	7/1.57	105.0	118.5	14.15	300.9	0.2619	33.01
150	WOLF	30/2.59	7/2.59	158.1	194.9	18.13	471.6	0.1694	71.64
150	DINGO	18/3.35	1/3.35	158.7	167.5	16.75	495.0	0.1781	36.46
175	LYNX	30/2.79	7/2.79	183.4	226.2	19.53	547.3	0.1460	82.49
175	CARACAL	18/3.61	1/3.61	184.3	194.5	18.05	574.9	0.1534	41.52
200	PANTHER	30/3.00	7/3.00	212.1	261.5	21.00	632.8	0.1263	95.34
200	JAGUAR	18/3.86	1/3.86	210.6	222.3	19.30	657.2	0.1342	46.50
400	ZEBRA	54/3.18	7/3.18	428.9	484.5	28.62	1238	0.06456	137.76

ACSR/AW

Aluminum Conductor, Aluminum-Clad Steel Reinforced

ASTM B549**Metric Units**

Code Word	Conductor Size mm ²	Strand- ing (Al/St.)	Diameter, mm			Rated Strength kN	Linear Weight kg/km	Resistance Ω /km		Allowable Ampacity Amps
			AL	ACS	Cable			DC @20℃	AC @75℃	
Sparrow/AW	33.62	6/1	2.67	2.67	8.03	12.30	129	0.8077	0.9833	194
Robin/AW	42.41	6/1	3.00	3.00	8.99	15.35	163	0.6398	0.7785	225
Raven/AW	53.51	6/1	3.37	3.37	10.11	18.91	205	0.5075	0.6181	260
Quail/AW	67.44	6/1	3.78	3.78	11.35	22.82	259	0.4026	0.4902	301
Pigeon/AW	85.02	6/1	4.25	4.25	12.75	28.03	326	0.3198	0.3898	347
Penguin/AW	107.2	6/1	4.77	4.77	14.30	34.21	411	0.2535	0.3091	402
Waxwing/AW	135.2	18/1	3.09	3.09	15.47	30.34	421	0.2088	0.2551	451
Partridge/AW	135.2	26/7	2.57	2.00	16.31	48.05	520	0.2024	0.2474	465
Ostrich/AW	152.0	26/7	2.73	2.12	17.27	53.83	584	0.1801	0.2202	500
Merlin/AW	170.5	18/1	3.47	3.47	17.37	37.99	532	0.1655	0.2026	522
Linne/AW	170.5	26/7	2.89	2.25	18.29	60.06	654	0.1607	0.1965	537
Oriole/AW	170.5	30/7	2.69	2.69	18.82	74.30	736	0.1573	0.1923	547
Chickadee/AW	201.4	18/1	3.77	3.77	18.87	43.51	628	0.1400	0.1716	580
Bran/AW	201.4	24/7	3.27	2.18	19.61	62.73	730	0.1373	0.1681	592
Ibis/AW	201.4	26/7	3.14	2.44	19.89	70.29	773	0.1360	0.1664	597
Lark/AW	201.4	30/7	2.92	2.92	20.47	87.20	869	0.1332	0.1629	608
Pelican /AW	241.7	18/7	4.14	4.14	20.68	51.16	754	0.1167	0.1425	651
Flicker /AW	241.7	24/1	3.58	2.39	21.49	74.30	876	0.1144	0.1402	663
Kawk /AW	241.7	26/7	3.44	2.67	21.79	84.09	928	0.1133	0.1388	669
Hen /Aw	241.7	30/7	3.20	3.20	22.43	104.1	1043	0.1110	0.1358	682
Osprey/AW	282.0	18/1	4.47	4.47	22.33	58.73	879	0.1001	0.1230	715
Parakee/AW	282.0	24/7	3.87	2.58	23.22	85.87	1022	0.0981	0.1203	731
Dove/AW	282.0	26/7	3.72	2.89	23.55	97.43	1084	0.0970	0.1190	737
Eagle/AW	282.0	30/7	3.46	3.46	24.21	119.2	1217	0.0951	0.1165	751
Peacock/AW	306.6	24/7	4.03	2.69	24.21	93.43	1111	0.0902	0.1108	770
Squab/AW	306.6	26/7	3.87	3.01	24.54	105.0	1178	0.0849	0.1096	777
Teal/AW	306.6	30/19	3.61	2.16	25.25	126.8	1313	0.0877	0.1074	791
Kingbird/AW	322.3	18/1	4.78	4.78	23.88	66.74	1005	0.0875	0.1078	778
Rook/AW	322.3	24/7	4.14	2.76	24.82	97.88	1168	0.0858	0.1055	794
Grosbeak/AW	322.3	26/7	3.97	3.09	25.15	110.3	1238	0.0849	0.1043	801
Egret/AW	322.3	30/19	3.70	2.22	25.88	133.0	1381	0.0834	0.1023	815
Flamingo/AW	337.8	24/7	4.23	2.82	25.40	102.8	1224	0.0819	0.1007	818
Gannet/AW	337.8	26/7	4.07	3.16	25.76	115.7	1298	0.0810	0.0995	825
Starling/AW	362.3	26/7	4.21	3.28	26.70	122.3	1393	0.0755	0.0928	863
Redwing/AW	362.3	30/19	3.92	2.35	27.46	148.6	1552	0.0741	0.0911	878
Term/AW	402.8	45/7	3.38	2.25	27.00	95.65	1298	0.0700	0.0865	896
Cuckoo/AW	402.8	24/7	4.62	3.08	27.74	122.3	1459	0.0687	0.0847	913

ACS=Aluminum Clad Steel Wire

ACSR/AW

ASTM B549

Metric Units

Code Word	Conductor Size mm ²	Strand- ing (Al/St.)	Diameter, mm			Rated Strength kN	Linear Weight kg/km	Resistance Ω/km		Allowable Ampacity Amps
			AL	ACS	Cable			DC @20°C	AC @75°C	
Condor/AW	402.8	54/7	3.08	3.08	27.72	123.7	1459	0.0686	0.0846	913
Drak/AW	402.8	26/7	4.44	3.45	28.11	135.7	1549	0.0679	0.0836	922
Mallard/AW	402.8	30/19	4.14	2.48	28.04	165.1	1726	0.0667	0.0820	938
Ruddy/AW	456.0	54/7	3.28	3.28	28.73	137.9	1653	0.0619	0.0764	970
Canary/AW	456.0	45/7	3.59	2.40	29.51	106.8	1470	0.0607	0.0750	986
Cardinal /AW	483.4	54/7	3.38	3.38	29.59	146.4	1751	0.0584	0.0709	1022
Rail /AW	483.4	45/7	3.70	2.47	29.61	113.0	1558	0.0572	0.0725	1003
Ortolan/AW	523.7	54/7	3.51	3.51	30.78	158.4	1896	0.0538	0.0671	1054
Curlew/AW	523.7	45/7	3.85	2.57	31.65	120.6	1687	0.0528	0.0655	1074
Bluejay/AW	564.0	54/19	3.65	2.19	31.98	166.8	2043	0.0527	0.0625	1103
Finch/AW	564.0	45/7	4.00	2.66	32.84	130.4	1819	0.0493	0.0614	1121
Bunting/AW	604.2	54/19	3.77	2.27	33.07	178.8	2187	0.0467	0.0585	1150
Grackle/AW	604.2	45/7	4.14	2.76	33.99	139.3	1948	0.0460	0.0574	1168
Bittern/AW	644.5	54/19	3.90	2.34	34.16	188.6	2333	0.0438	0.0551	1196
Pheasant/AW	644.5	45/7	4.27	2.85	35.10	148.6	2077	0.0431	0.0540	1216
Dipper/AW	684.6	54/19	4.02	2.41	35.20	200.6	2478	0.0412	0.0520	1240
Martin/AW	684.6	45/7	4.40	2.93	36.17	157.9	2207	0.0406	0.0510	1261
Bobolink/AW	725.1	54/19	4.14	2.48	36.25	212.2	2625	0.0389	0.0493	1283
Plover/AW	725.1	45/7	4.53	3.02	32.13	167.3	2337	0.0384	0.0483	1306
Nuthatch/AW	765.1	54/19	4.25	2.55	37.21	223.8	2768	0.0369	0.0469	1326
Parrot/AW	765.1	45/7	4.65	3.10	38.23	176.6	2467	0.0363	0.0458	1351
Lapwing/AW	805.7	54/19	4.36	2.62	38.20	235.8	2917	0.0351	0.0448	1365
Falcon/AW	805.7	45/7	4.78	3.18	39.24	186.0	2598	0.0345	0.0438	1391
Chukar/AW	901.9	84/19	3.70	2.22	40.69	219.8	2995	0.0319	0.0403	1464
Kiwi/AW	1098	72/7	4.41	2.94	44.07	218.4	3367	0.0260	0.0340	1634
Bluebird/AW	1092	84/19	4.07	2.44	44.75	262.5	3626	0.0258	0.0346	1613
Thrasher/AW	1171	76/19	4.43	2.07	45.79	246.0	3678	0.0243	0.0326	1680

High Strength Conductor

Metric Units

Code Word	Conductor Size mm ²	Strand- ing (Al/St.)	Diameter mm			Rated Strength kN	Linear Weight kg/km	Resistance Ω/km		Allowable Ampacity Amps
			AL	ACS	Cable			DC @20°C	AC @75°C	
Grouse/AW	40.54	8/1	2.54	4.24	9.32	21.8	205	0.6371	0.7733	227
Petrel/AW	51.58	12/7	2.34	2.34	11.68	44.1	342	0.4675	0.5695	281
Minorca/AW	56.14	12/7	2.44	2.44	12.22	48.0	372	0.4350	0.5230	297
Leghorn/AW	68.20	12/7	2.69	2.69	13.46	57.8	452	0.3537	0.4308	335
Guinea/AW	80.57	12/7	2.92	2.92	14.63	68.1	534	0.2993	0.3648	372
Dotterel/AW	89.64	12/7	3.08	3.08	15.42	75.2	594	0.2691	0.3277	398
Dorking/AW	96.68	12/7	3.20	3.20	16.03	81.4	641	0.2494	0.3038	418
Brahma/AW	103.0	16/19	2.86	2.48	18.14	120.6	894	0.2155	0.2623	464
Cochin/AW	107.1	12/7	3.37	3.37	16.87	88.1	709	0.2252	0.2744	445

Ampacity based on conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 0.6m/sec. and in sun.

Coaxial Cable RG



Coaxial Cable RG 6, 11 and 59 are used as a distribution cable for outdoor CATV-MATV, CCTV systems and as a connection cable for radio, television, satellite, video system and Telecommunications, where lower attenuation required. Besides of the standard cable, customer required cables are also available in our company.

To cater to the stringent requirement in the market we produce cables with flame retardant PVC material that meets all standards. We are also capable of supplying cables with Low Smoke Zero Halogen (LSOH) jackets and Lead free (RoHS) or sunlight resistant PVC jacket.

The company possesses advanced production equipment and experienced technical staff. All products are strictly tested and their data reach national and relative international standards.

As a reliable Chinese supplier, the company will continue to serve customs needs by improving the quality and expanding the range of products to better satisfy and meet the future demands of advanced technology and high-speed communications internationally.



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CATV/MATV - RG6						CATV/MATV - RG11					
CABLE TYPE		Standard Shield	Tri-Shield	Quad-Shield	Messenger	CABLE TYPE		Standard Shield	Tri-Shield	Quad-Shield	Messenger
CONSTRUCTION:						CONSTRUCTION:					
Inner Conductor	Material Dia. mm	CCS 1,02	CCS 1,02	CCS 1,02	CCS 1,02	Inner Conductor	Material Dia. mm	CCS 1,63	CCS 1,63	CCS 1,63	CCS 1,63
Dielectric	Material Dia. mm	Foam PE 4,57	Foam PE 4,57	Foam PE 4,57	Foam PE 4,57	Dielectric	Material Dia. mm	Foam PE 7,11	Foam PE 7,11	Foam PE 7,11	Foam PE 7,11
Shield						Shield					
First Shield:	Material	Bonded AL/P	Bonded AL/P	Bonded AL/P	Bonded AL/P	First Shield:	Material	Bonded AL/P	Bonded AL/P	Bonded AL/P	Bonded AL/P
Second Shield:	Material	60% AL	60% AL	60% AL	60% AL	Second Shield:	Material	60% AL	60% AL	60% AL	60% AL
Third Shield:	-	-	AL/P/AL	AL/P/AL	-	Third Shield:	-	-	AL/P/AL	AL/P/AL	-
Fourth Shield:	-	-	-	40% AL	-	Fourth Shield:	-	-	-	40% AL	-
Jacket	Material Dia. mm	PVC 6,86	PVC 7,06	PVC 7,62	PVC 6,86	Jacket	Material Dia. mm	PVC 10,16	PVC 10,16	PVC 10,34	PVC 10,16
Messenger	Material Dia. mm	-	-	-	Steel 1,30	Messenger	Material Dia. mm	-	-	-	Steel 1.83/2.11

CATV/MATV - RG59					
CABLE TYPE		Standard Shield 95%	Standard Shield 67%	Tri-Shield	QuadShield
CONSTRUCTION:					Messenger
Inner Conductor	Material Dia. mm	CCS 0,81	CCS 0,81	CCS 0,81	CCS 0,81
Dielectric	Material Dia. mm	Foam PE 3,66	Foam PE 3,66	Foam PE 3,66	Foam PE 3,66
Shield					
First Shield:	Material	Bonded AL/P	Bonded AL/P	Bonded AL/P	Bonded AL/P
Second Shield:	Material	67% AL	95% AL	67% AL	53% AL
Third Shield:	-	-	-	AL/P/AL	AL/P/AL
Fourth Shield:	-	-	-	-	40% AL
Jacket	Material Dia. mm	PVC 6,10	PVC 6,10	PVC 6,10	PVC 6,73

Coppal Products

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- Telecommunication • Energy Transmission • Data Transmission

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- Aluminum Alloy: 5154, 6201, others, Wires and Stranded Wires;
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- 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;
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- Drawing Machinery for CCAW and CCSW, complete plants.

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- Acero Galvanizado hilos y cables, Clase 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);
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- Raw Material and Semi-finished



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Copper Clad Aluminum Wire



Copper Clad Aluminum Wire is a dual metal conductor composed by round aluminum core outside and uniform and even copper coating inside. The copper clad aluminum wire characterizes by both the small density of aluminum and the good conductivity of copper. This kind of bimetallic composite wire is suited for most electrical conductor applications.

It is widely applied in CATC coaxial cable, RF cable, data cable, cable for electronic, cable for computer, electronic magnetic cable, power transmission, signal transmission, HC communication network signal transmission, control signal cable, light vehicle cable, welding cable, urgent removal cable, TV exciting coil, deflecting coil, ballast coil and other fields.

Advantages:

- Good electricity conducting performance (could be treated the same as pure copper wire when the frequency is higher than 5MHZ);
- Lower cost and copper material saving. Density of copper clad aluminum wire is lower than density of pure copper wire, and its length is 2.5 as long as pure copper wire of the same weight;
- The CCA we can produce is 0.04-5.15mm and we also produce as customer's requirements.



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Nominal Diameter		Tensile Strength		Elongation min%		Minimum of H Classes		Maximum of A Classes	
in	mm	Ksi	Mpa	Ksi	Mpa	H class	A class		
0,2294	5,827	20	138	20	138	1,5	15		
0,2043	5,189	22	152	20	138	1,5	15		
0,1819	4,620	23	159	20	138	1,5	15		
0,1620	4,115	24	166	20	138	1,5	15		
0,1443	3,665	25	172	20	138	1,5	15		
0,1285	3,264	26	179	20	138	1,0	15		
0,1144	2,906	27	186	20	138	1,0	15		
0,1019	2,588	28	193	20	138	1,0	15		
0,0907	2,30	29	200	20	138	1,0	15		
0,0808	2,05	30	207	20	138	1,0	15		
0,0720	1,83	30	207	20	138	1,0	15		
0,0641	1,63	30	207	20	138	1,0	15		
0,0571	1,45	30	207	20	138	1,0	15		
0,0508	1,29	30	207	20	138	1,0	15		
0,0453	1,15	30	207	20	138	1,0	15		
0,0403	1,02	30	207	20	138	1,0	15		
0,0359	0,912	30	207	20	138	1,0	15		

Nominal Diameter		Tensile Strength		Elongation min%		Minimum of H Classes		Maximum of A Classes	
in	mm	Ksi	Mpa	Ksi	Mpa	H class	A class		
0,0320	0,813	30	207	20	138	1,0	15		
0,0285	0,724	30	207	20	138	1,0	15		
0,0253	0,643	30	207	20	138	1,0	15		
0,0226	0,574	30	207	25	172	1,0	10		
0,0201	0,511	30	207	25	172	1,0	10		
0,0179	0,455	30	207	25	172	1,0	10		
0,0159	0,404	30	207	25	172	1,0	10		
0,0142	0,361	30	207	25	172	1,0	10		
0,0126	0,320	30	207	25	172	1,0	5		
0,0113	0,287	30	207	25	172	1,0	5		
0,0100	0,254	30	207	25	172	1,0	5		
0,0089	0,226	30	207	25	172	1,0	5		
0,0080	0,203	30	207	25	172	1,0	5		
0,0071	0,180	30	207	25	172	1,0	5		
0,0063	0,160	30	207	25	172	1,0	5		
0,0058	0,142	30	207	25	172	1,0	5		
0,0050	0,127	30	207	25	172	1,0	5		

All other diameters and specifications are produced under request.

Coppral Products

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Copper Clad Steel Wire Stranded Copper Steel Wire



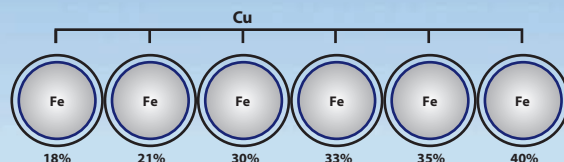
Copper Clad Steel Wire and Stranded Copper Steel Wire are the revolutionary material used to produce CATV, Communication Cable, Radio Frequency Cable, Electrical Cable and many other applications being developed. The main advantage for this new technology is the replacement of traditional solid copper wire, dispendious and subjected to frequent robbery causing many losses and trouble for transmission lines and operators.

Our products are made according to ASTM (American Standard Test Method) and BS (British Standard) in compliance with all Telecommunication industry, under quality control foreseen in ISO 9001/2000.

The bimetallic wire manufacturing process, employs two different metals combining beneficial properties of each one, in accordance to technical requirements.

Copper Clad Steel Wire and Stranded Copper Steel Wire employ steel wire SAE 1010, 1035, 1050, according to required project resistance x conductivity.

Standard Type



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AWG	Diameter	Cross Section	Weight kg/km	Copper Thickness	Nominal Resistance ohms/km	Breaking Load - kgf		
	mm	mm2		mm		Type 1	Type 2	Type 3
ASTM B -869 21% Conductivity Hard Drawn								
10	2.588	5.261	41,9	0,07765	15.605	510	561	728
14	1.628	2.082	16,6	0,04884	39.436	193	212	288
18	1.024	0,823	6,5	0,03071	99.769	76	84	140
19	0,912	0,653	5,21	0,02736	125.724	61	66	111
20	0,813	0,519	4,14	0,02438	158.237	48	53	88

ASTM B -227 ASTM B -452 - 30% CONDUCTIVITY HARD DRAWN								
10	2.588	5.261	42,82	0,16824	10.923	420	558	662
14	1.628	2.082	16,94	0,10583	27.605	184	191	249
18	1.024	0,823	6,70	0,06654	69.839	67	80	127
19	0,912	0,653	5,31	0,05927	88.007	54	64	101
20	0,813	0,519	4,22	0,05283	110.766	43	51	80

ASTM B -227 ASTM B -452 - 33% CONDUCTIVITY HARD DRAWN								
20	0,813	0,519	4.247	0,06137	101.873	48	55	92

ASTM B -227 ASTM B -452 - 35% CONDUCTIVITY HARD DRAWN								
20	0,813	0,519	4.247	0,07646	95.323	50	59	96

ASTM B -227 ASTM B -452 - 40% CONDUCTIVITY HARD DRAWN								
10	2.588	5.261	43,25	0,25883	8.193	386	513	563
14	1.628	2.082	17,12	0,16281	20.704	141	181	228
18	1.024	0,823	6,77	0,10236	52.379	54	72	108
19	0,912	0,653	5,37	0,09119	66.005	44	57	85
20	0,813	0,519	4,27	0,08128	83.074	34	45	68

The demonstrated specifications are produced for all electronic and telecommunication purposes.
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Galvanized Steel Wire



Galvanized steel wire can be further divided into low carbon steel, medium carbon steel or high carbon steel. Finishes can be hot dipped galvanized, electro galvanized, black annealed, bright galvanized or oil painted.

Electro galvanized iron wire and hot-dipped galvanized iron wire are mainly used for meshes, spring wires, rope wires, knitting wires, scrubbing wires, wire for control cable, wire for braiding hoses, wire for conveyor belts, wires for welding, Tig and Mig wires, nail wires, wires for constructions, stitching wire, etc.

We offer diameters from AWG 8# to 22#.

All our products are manufactured according to standards, for instance, ASTM, JISG, BS, etc. We can also manufacture products according to your speciality. Our products are widely applied in domestic and sold in Europe, Australia, Middle East, Japan, Southeast Asia, South America and Africa.

We always welcome friends from home and abroad to our company to discuss business cooperation.



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Intensity level	Wire diameter mm	Minimum tensile strength (MPa)	Minimum stress with 1% extension (MPa)	Minimum extension percentage when L=250mm	Minimum number of 360° twists	Diameter of testing mandril (multiple)
General	>1.24-2.25	1340	1170	3.0	16	1
	>2.25-2.75	1310	1140	3.0	16	1
	>2.75-3.00	1310	1140	3.5	16	1
	>3.00-3.50	1290	1100	3.5	14	1
	>3.50-4.25	1290	1100	4.0	12	1
	>4.25-4.75	1290	1100	4.0	12	1
	>4.75-5.50	1290	1100	4.0	12	1
High	>1.24-2.25	1450	1310	2.5	16	3
	>2.25-2.75	1410	1280	2.5	16	3
	>2.75-3.00	1410	1280	3.0	16	4
	>3.00-3.50	1410	1240	3.0	14	4
	>3.50-4.25	1380	1170	3.0	12	4
	>4.25-4.75	1380	1170	3.0	12	4
	>4.75-4.50	1380	1170	3.0	12	4
Very high	>1.24-2.25	1620	1450	2.0	14	4
	>2.25-2.75	1590	1410	2.0	14	4
	>2.75-3.00	1590	1410	2.5	12	5
	>3.00-3.50	1550	1380	2.5	12	5
	>3.50-4.25	1520	1340	2.5	10	5
	>4.25-4.75	1520	1340	2.5	10	5
	>4.75-5.50	1520	1270	2.5	10	5

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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 Aluminizado reforzado, según parámetros de ACSR (AW);
- Acero Galvanizado hilos y cables, Clase 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 Energía, 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.

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All in Copper, Steel & Aluminum

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



Representatives in Latin America:
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www.bancor.com.br - bancor@bancor.com.br



OPGW Cable



Optical Ground Wire is a dual functioning cable that performs the duties of a ground wire - also known as static wire - while providing a path for the transmission of voice, video or data signals by incorporating optical fibers into the design of the cable. An optical ground wire provides in one cable:

- Ground wire protection;
- Lightning protection for overhead power lines;
- Fibre optic cable for high performance telecommunication network.

Our OPGW is ideal for voice, data and video communications and integrates easily into new and established high voltage systems. OPGW is placed at the highest point on power utility structures, allowing for fast, cost-effective installations and extraordinary reliability.

Features:

- High crush resistance;
- Hermetic seal of the optical fibres;
- Loosely packed optical fibres;
- Fiber elongation < 0.01% to achieve highest reliability;
- Compact configuration, up to more than 100 fibres.



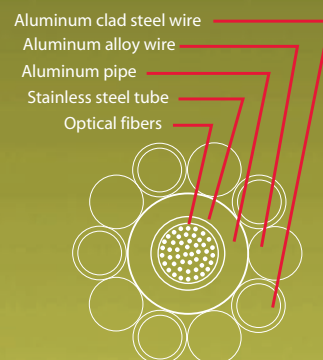
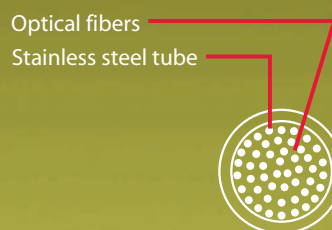
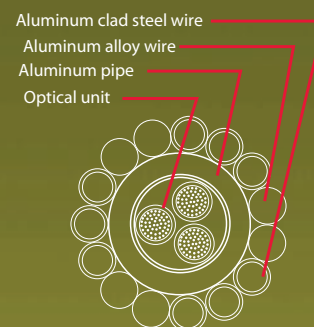
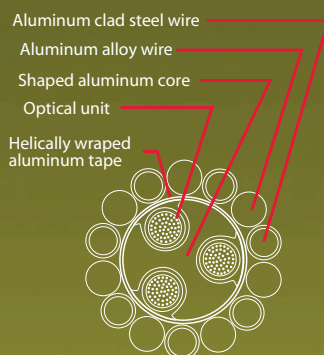
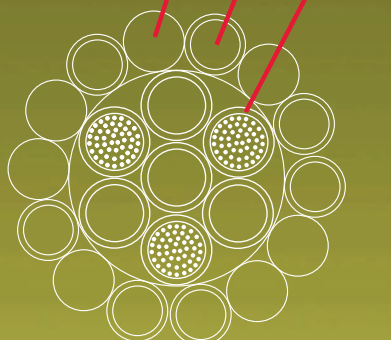
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COPPRAL Cable & Wire Industries Limited.

Nº1 - Harbour Road - Suite 3304 - 33F - Office Tower - Convention Plaza
Wanchai - Hong Kong

www.coppral.com.hk - coppral@coppral.com.hk

Stainless steel tube with optical fibers
Aluminum clad steel wire
Aluminum alloy wire



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.

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- 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);
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