

# Copper-Flexible-Stranded-Ropes

**Amiable Impex** manufactures **Copper-Flexible-Stranded-Ropes**. Our range of Copper Conductor/Conductors also includes Round copper braids and **Copper-Flexible-Stranded-Ropes**.

Our **Copper-Flexible-Stranded-Ropes** is available with plain, tinned, nickel-plated or silver-plated surfaces, depending on your application



Copper Rope braid		
Nominal area (mm <sup>2</sup> )	Diameter approx (mm)	Wire diameter (mm)
6	4.3	0.15
10	5.4	0.15
16	6.8	0.15
25	8.2	0.15
35	10.0	0.15
50	11.8	0.15

Copper Rope braid		
Nominal area (mm <sup>2</sup> )	Diameter approx (mm)	Wire diameter (mm)
6	4.4	0.20
10	5.4	0.20
16	6.8	0.20
25	8.3	0.20
35	10.1	0.20
50	11.7	0.20
70	14.0	0.20
120	18.0	0.20

Our **Copper-Flexible-Stranded-Ropes** stand out by being highly twist-free and having a compact cutting surface, which is important for your problem-free further processing. Our round copper rope can be woven with a left or right hand twist. Round, stranded copper flexible are used in welding and power equipment for electrical components such as switches as well as to conduct welding current (welding tools, robots and lines). These can be made from electrolytic copper Cu-ETP (grade C101) or from oxygen free copper

Even though many of our products are standard items, we also make special tailor made products made exactly to the requirements of our customers.

We offer a wide choice of braid types (flat, round, rope and layered), strand sizes, finishes, termination options (crimped, pressed and swaged), insulation and identification. Our highly flexible earthing connectors and earth leads are commonly used in switchgear, building services and a wide range of industries. We offer competitive pricing and ex-stock or short lead time deliveries.

**Copper-Flexible-Stranded-Ropes** can be made from electrolytic copper Cu-ETP (grade C101) or from oxygen free copper

Finish in **Copper-Flexible-Stranded-Ropes**:

Our wide range of copper braid products is available in the following copper wire finishes:

- Bare copper / Plain copper / red copper
- Electro tin plated copper
  - Electro nickel plated copper
  - 99.99% pure Silver electro plated copper
  - Enamel coated, which insulates each wire
  - And other finishes on request.

We use the finest quality material for **Copper-Flexible-Stranded-Ropes** to ensure consistency of quality and performance, drawing on our supplier's decades of experience in drawing, stranding and braiding, as well as surface treatment.

### Copper Braid Construction

The construction of Copper braid is usually written as:

48 / 30 / 0.15, where:

48 = the number of carriers

30 = the number of wires per carrier

0.15 = the diameter of each wire in mm

The cross sectional area (CSA) of a copper braid can be calculated from this information:

$(\text{Carriers} \times \text{wires per carrier} \times \text{wire diameter}^2 \times 3.142) / 4$

So, for a copper braid with the specification: 48 / 30 / 0.15, this would be:

$48 \times 30 \times 0.15^2 \times 3.142 / 4 = 101.80$

$= 25.45 \text{ mm}^2$

### Oxygen Free Copper

Oxygen-free high thermal conductivity (OFHC) copper is widely used in cryogenics. OFHC is produced by the direct conversion of selected refined cathodes and castings under carefully controlled conditions to prevent contamination of the pure oxygen-free metal during processing. The method of producing OFHC copper insures extra high grade of metal with a copper content of 99.99%.

With so small a content of extraneous elements, the inherent properties of elemental copper are brought forth to a high degree. Characteristics are high ductility, high electrical and thermal conductivity, high impact strength, good creep resistance, ease of welding, and low relative volatility under high vacuum. We supply a range of oxygen free copper for use in scientific, industrial and medical processes.

- Copper alloy 10100 oxygen free copper, also known in Europe as Cu-OF or CW008A to EN13601.
- Composition: Copper 99.99 %, Trillium 0.001 %
- Hardness: B30 - 40
- Conductivity: 101 %
- Tensile strength: 25 - 40 Ksi

In simple terms the thermal conductivity of pure copper is about 400 watts per meter . This means that a plate of copper with area A and thickness L whose faces are kept at a constant relative temperature difference of delta T will conduct heat at a rate of 400.

**Amiable Impex** supply **Copper-Flexible-Stranded-Ropes** all over India mainly at Ahmadabad, Pune, Delhi, Mumbai, Bangalore, Chennai, Kolkata, Surat, Pune, Lucknow, Kanpur, Nagpur, Indore, Bhopal, Vadodara(Baroda) etc.

For more details or any queries in terms for **Copper-Flexible-Stranded-Ropes** please visit us at <http://www.amiableimpex.com> or mail us at [info@amiableimpex.com](mailto:info@amiableimpex.com)



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## Amiable Impex Sales are Worldwide

Amiable Impex sells in India at Ahmedabad, Pune, Delhi, Mumbai, Bangalore, Chennai, Kolkata, Surat, Lucknow, Kanpur, Nagpur, Indore, Bhopal, Vadodara(Baroda), Andhra Pradesh - Hyderabad , Arunachal Pradesh - Itanagar, Assam - Dispur, Bihar - Patna , Chhattisgarh - Raipur , Goa - Panaji ,Gujarat - Ahmedabad , Haryana - Chandigarh , Himachal Pradesh - Shimla , Srinagar, Jharkhand - Ranchi , Karnataka, Kerala - Thiruvanthapuram , Madhya Pradesh - Bhopal , Maharashtra - Mumbai , Orissa - Bhubaneshwar , Punjab - Chandigarh , Rajasthan - Jaipur , Sikkim , Tamil Nadu - Chennai , Uttar Pradesh - Lucknow , Uttaranchal - Dehradun , West Bengal - Kolkata.

We can also export to Countries like Afghanistan - Kabul, Albania - Tirane, Algeria - Algiers, Andorra - Andorra la Vella, Angola - Luanda, Antigua and Barbuda - Saint John's, Argentina - Buenos Aires, Armenia - Yerevan, Australia - Canberra, Austria - Vienna, Azerbaijan - Baku, The Bahamas - Nassau, Bahrain - Manama, Bangladesh - Dhaka, Barbados - Bridgetown, Belarus - Minsk, Belgium - Brussels, Belize - Belmopan, Benin - Porto-Novo, Bhutan - Thimphu, Bolivia - La Paz, Sucre, Bosnia and Herzegovina - Sarajevo, Botswana - Gaborone, Brazil - Brasilia, Brunei - Bandar Seri Begawan, Bulgaria - Sofia, Burkina Faso - Ouagadougou, Burundi - Bujumbura, Cambodia - Phnom Penh, Cameroon - Yaounde, Canada - Ottawa, Cape Verde - Praia, Central African Republic - Bangui Chad - N'Djamena, Chile - Santiago, China - Beijing, Colombia - Bogota, Comoros - Moroni, Congo Republic of the - Brazzaville, Congo, Democratic Republic of the - Kinshasa, Costa Rica - San Jose, Cote d'Ivoire - Yamoussoukro, Abidjan (de facto), Croatia - Zagreb, Cuba - Havana, Cyprus - Nicosia, Czech Republic – Prague, Denmark - Copenhagen, Djibouti - Djibouti, Dominica - Roseau, Dominican Republic - Santo Domingo, East Timor (Timor-Leste) - Dili, Ecuador - Quito, Egypt - Cairo, El Salvador - San Salvador, Equatorial Guinea – Malabo, Eritrea - Asmara, Estonia - Tallinn, Ethiopia - Addis Ababa, Fiji - Suva, Finland - Helsinki, France - Paris, Gabon - Libreville, The Gambia - Banjul, Georgia - Tbilisi, Germany - Berlin, Ghana - Accra, Greece - Athens, Grenada - Saint George's, Guatemala - Guatemala City, Guinea - Conakry, Guinea-Bissau - Bissau, Guyana - Georgetown, Haiti - Port-au-Prince, Honduras - Tegucigalpa, Hungary - Budapest, Iceland - Reykjavik, India - Delhi, Indonesia - Jakarta, Iran - Tehran, Iraq - Baghdad, Ireland - Dublin, Israel - Jerusalem, Italy - Rome, Jamaica - Kingston, Japan - Tokyo, Jordan - Amman, Kazakhstan - Astana, Kenya - Nairobi, Kiribati - Tarawa Atoll, Korea, North - Pyongyang, Korea, South - Seoul, Kosovo - Pristina, Kuwait - Kuwait City, Kyrgyzstan - Bishkek, Laos - Vientiane, Latvia - Riga, Lebanon - Beirut, Lesotho - Maseru, Liberia - Monrovia, Libya - Tripoli, Liechtenstein - Vaduz, Lithuania - Vilnius, Luxembourg - Luxembourg, Macedonia - Skopje, Madagascar - Antananarivo, Malawi - Lilongwe, Malaysia - Kuala Lumpur, Maldives - Male, Mali - Bamako, Malta - Valletta, Marshall Islands - Majuro, Mauritania - Nouakchott, Mauritius - Port Louis, Mexico - Mexico City, Micronesia, Federated States of - Palikir, Moldova - Chisinau, Monaco - Monaco, Mongolia - Ulaanbaatar, Montenegro - Podgorica, Morocco - Rabat, Mozambique - Maputo, Myanmar (Burma) - Rangoon (Yangon); Naypyidaw or Nay Pyi Taw, Namibia - Windhoek, Nauru, Nepal - Kathmandu, Netherlands - Amsterdam; The Hague, New Zealand - Wellington, Nicaragua - Managua, Niger - Niamey, Nigeria - Abuja, Norway - Oslo, Oman - Muscat, Pakistan - Islamabad, Palau - Melekeok, Panama - Panama City, Papua New Guinea - Port Moresby, Paraguay - Asuncion, Peru - Lima, Philippines - Manila, Poland - Warsaw, Portugal - Lisbon, Qatar - Doha, Romania - Bucharest, Russia - Moscow, Rwanda - Kigali, Saint Kitts and Nevis - Basseterre, Saint Lucia – Castries, Saint Vincent and the Grenadines - Kingstown, Samoa - Apia, San Marino - San Marino, Sao Tome and Principe - Sao Tome, Saudi Arabia - Riyadh, Senegal - Dakar, Serbia - Belgrade, Seychelles - Victoria, Sierra Leone - Freetown, Singapore - Singapore, Slovakia - Bratislava, Slovenia - Ljubljana, Solomon Islands - Honiara, Somalia - Mogadishu, South Africa - Pretoria, Cape Town, Bloemfontein, South Sudan - Juba, Spain - Madrid, Sri Lanka - Colombo; Sri Jayewardenepura Kotte, Sudan - Khartoum, Suriname - Paramaribo, Swaziland - Mbabane, Sweden - Stockholm, Switzerland - Bern, Syria - Damascus, Taiwan - Taipei, Tajikistan - Dushanbe, Tanzania - Dar es Salaam; Dodoma, Thailand - Bangkok, Togo - Lome, Tonga - Nuku'alofa, Trinidad and Tobago - Port-of-Spain, Tunisia - Tunis, Turkey - Ankara, Turkmenistan - Ashgabat, Tuvalu - Vaiaku village, Funafuti province, Uganda - Kampala, Ukraine - Kyiv, United Arab Emirates - Abu Dhabi, United Kingdom - London, United States of America - Washington D.C., Uruguay - Montevideo, Uzbekistan - Tashkent, Vanuatu - Port-Vila, Vatican City Holy See) - Vatican City, Venezuela - Caracas, Vietnam - Hanoi, Yemen - Sanaa, Zambia - Lusaka, Zimbabwe - Harare