



# AMIABLE

## MANUFACTURERS & EXPORTER OF FLAT COPPER BRAIDS



CPRI, Bangalore

ISO 9001:2008

We as Amiable are the Manufacturer for Copper Braids and Copper Flexible Connectors and Laminated Copper Flexible Connectors

Our Firm AMIABLE IMPEX, is well established organization in India and overseas market and Manufactures and Export the following products :

- 01) Copper Braided & Laminated Connectors
- 02) Exothermic Weld Powder & Graphite Molds
- 03) Brass Parts Components, Accessories and Fittings

As one of India's most respected corporations, we have earned good reputation amongst our customers with Quality Assurance, On time delivery and High Customer Satisfaction. To ensure consistent product quality, we work within a quality system that is approved with:

**ISO 9001 - 2008 certification**

**ISO 14001 certification**

**ISO 18001 certification**

**GMP Standard**

**CE Compliance**

**ROHS Compliance**

Our Exothermic Weld Powder meets IEEE 837-2002 Standard & Certified by CPRI - Govt. for Short Circuit Current Testing and we are Crisil Verified Company.

Strict quality checks are carried out at different stages of manufacturing and only that material which passes stringent norms finds its way in the market around the Globe.

**Any kind of special products made from Brass, Copper, Gunmetal, Bronze, Cast Iron, Malleable Iron & PVC can be developed, manufactured and supplied exactly as per customer specifications.**

Our customer bases are distributors, wholesalers, electrical contractors and installers, maintenance people, government bodies, equipment manufacturers etc...

We always believe in the power of our brands in doing the right thing.

"We understands our Customers Values"

We are the Manufacturer and Supplier of **Flat Copper Braids**. Our most economical standard flat copper braids are made from 0.20 diameter wire and are braided into a tube followed by a rolling process to flatten them. They are used as earthing straps and are also used in numerous electrical components. All types can be supplied in non-rolled form, as multiple tubes and for screening. It is highly copper flexible pressed, Bare, Tin & Silver Coated. Flat Braid is mainly used for Earthing Connection & terminals etc.

## FLAT COPPER BRAIDS

### Flat Copper Braids

We manufacture Braided Copper Wire in high grade Copper Quality.

**Copper Material:** Electrolytic Copper

**Finish Offers:** Bare Copper, Tinned Plated & Silver Plating

**Wire Sizes Offer** – From Swg 30 to Swg 45. Standard is 36 Gauge (0.2mm)

**Cross Sectional Area Range: From 2 Sqmm and Above**



We Manufacture the Following Basic Sizes for Copper Braid:

| Dimensions<br>Width X Thick | Cross Section<br>sq. mm | Appx. Weight<br>per<br>100 Meters* | Current<br>Rating<br>Amps* | Product<br>Code<br>Sr. No. |
|-----------------------------|-------------------------|------------------------------------|----------------------------|----------------------------|
| 4 X 1                       | 2                       | 2                                  | 25                         | CBS-0410                   |
| 6 X 1                       | 3.6                     | 3.6                                | 36                         | CBS-0610                   |
| 8 X 1                       | 5                       | 5                                  | 47                         | CBS-0810                   |
| 10 X 1                      | 6.1                     | 6.1                                | 55                         | CBS-1010                   |
| 10 X 2                      | 9.8                     | 9.8                                | 83                         | CBS-1020                   |
| 12 X 1                      | 7                       | 7                                  | 62                         | CBS-1210                   |
| 12 x 1.5                    | 8.40                    | 8                                  | 40                         | CBS-1215                   |
| 12 x 3                      | 16.80                   | 17                                 | 105                        | CBS-1230                   |
| 19 x 1.5                    | 12.10                   | 12                                 | 63                         | CBS-1915                   |
| 19 x 3                      | 22.40                   | 22.5                               | 145                        | CBS-1930                   |
| 25 x 1.5                    | 19.60                   | 20                                 | 85                         | CBS-2515                   |
| 25 x 3                      | 36.50                   | 35                                 | 200                        | CBS-2530                   |
| 25 x 6                      | 73.00                   | 72.5                               | 400                        | CBS-2560                   |
| 32 x 1.5                    | 36.50                   | 38                                 | 120                        | CBS-3215                   |
| 32 x 3                      | 42.10                   | 42                                 | 240                        | CBS-3230                   |
| 32 x 6                      | 81.40                   | 80                                 | 400                        | CBS-3260                   |
| 38 x 3                      | 53.30                   | 52.5                               | 300                        | CBS-3830                   |
| 38 x 6                      | 80.00                   | 85                                 | 500                        | CBS-3860                   |
| 50 x 3                      | 70.20                   | 70                                 | 400                        | CBS-5030                   |
| 50 x 6                      | 109.50                  | 110                                | 800                        | CBS-5060                   |
| 50 x 12                     | 280.00                  | 275                                | 1500                       | CBS-5012                   |
| 75 x 6                      | 140.40                  | 140                                | 1000                       | CBS-7560                   |
| 90 x 12                     | 240.00                  | 330                                | 40                         | CBS-9012                   |



The Copper Braids are usually made in

- 36 Gauge SWG (0.02927 Sqmm per Wire i.e 0.193 wire diameter) - Standard
- 39 Gauge SWG (0.0137 Sqmm per Wire i.e 0.132 wire diameter)
- 42 Gauge SWG (0.008107per Wire i.e 0.102 wire diameter)

**More the Gauge SWG – More will be Flexibility**

**\*\*\*Above are the Standard Size for the ready reference. Flat Copper Braids in any other sizes can be manufactured and supply**

P.N-Current rating measured at 35°C room temperature and max. permitted Conductor Temp of 70°C, Since several influencing factors generally apply, the value specified for current rating must be considered as non-binding guideline values.

We offer a wide choice of **Flat Copper Braids** 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.

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 use the finest quality material of **Flat Copper Braids** 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.

### **Flat Copper Braids 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 Flat Copper Braids**

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

## Copper Braided Sleeve (EXPANDABLES)

**Copper Material:** Electrolytic Copper

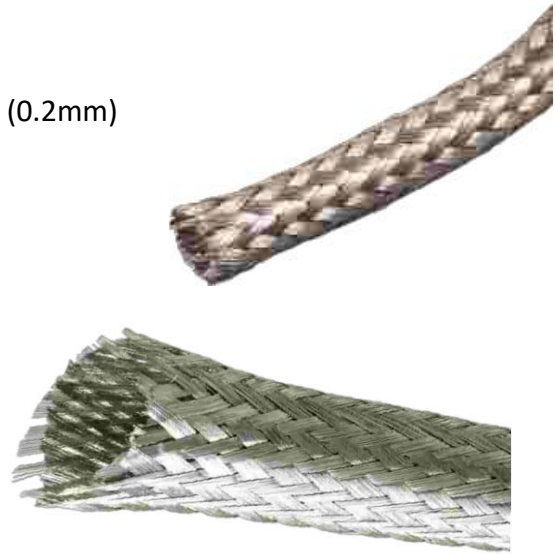
**Finish Offers:** Bare Copper, Tinned Plated, Silver Plated

**Wire Sizes Offer** – From 30 swg to 45 swg. Standard is 36 swg (0.2mm)

**Cross Sectional Area Range:** From 1.5 Sqmm and Above

**We Manufactures the below Copper Braided Sleeves**

| Former OD<br>mm | Coverage<br>% | Usable<br>Max | OD<br>(mm)<br>Min | Item<br>Code<br>Sr. No. |
|-----------------|---------------|---------------|-------------------|-------------------------|
| 3               | 80 - 90       | 5             | 2                 | CSB-0300                |
| 4               | 80 - 90       | 6             | 3                 | CSB-0400                |
| 5               | 80 - 90       | 8             | 4                 | CSB-0500                |
| 6               | 80 - 90       | 12            | 5                 | CSB-0600                |
| 8               | 80 - 90       | 14            | 6                 | CSB-0800                |
| 10              | 80 - 90       | 16            | 8                 | CSB-1000                |
| 12              | 80 - 90       | 18            | 10                | CSB-1200                |



**\*\*\*Above are the Standard Size for the ready reference. Flat Copper Braids in any other sizes can be manufactured and supply**

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

### Fields Name:

We are manufacturer and supplier of Copper Braids like:

Copper Braided, Copper Braided Connector, Copper Braided Flexible Connector, Copper Braid, Copper Braids, Copper Braided Bond, Copper Braided Straps, Copper Braided Earth Straps, Tinned Copper Braided, Tinned Copper Braided Connector, Tinned Copper Braided Flexible Connector, Tinned Copper Braid, Tinned Copper Braids, Tinned Copper Braided Bond, Tinned Copper Braided Straps, Tinned Copper Braided Earth Straps.





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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