

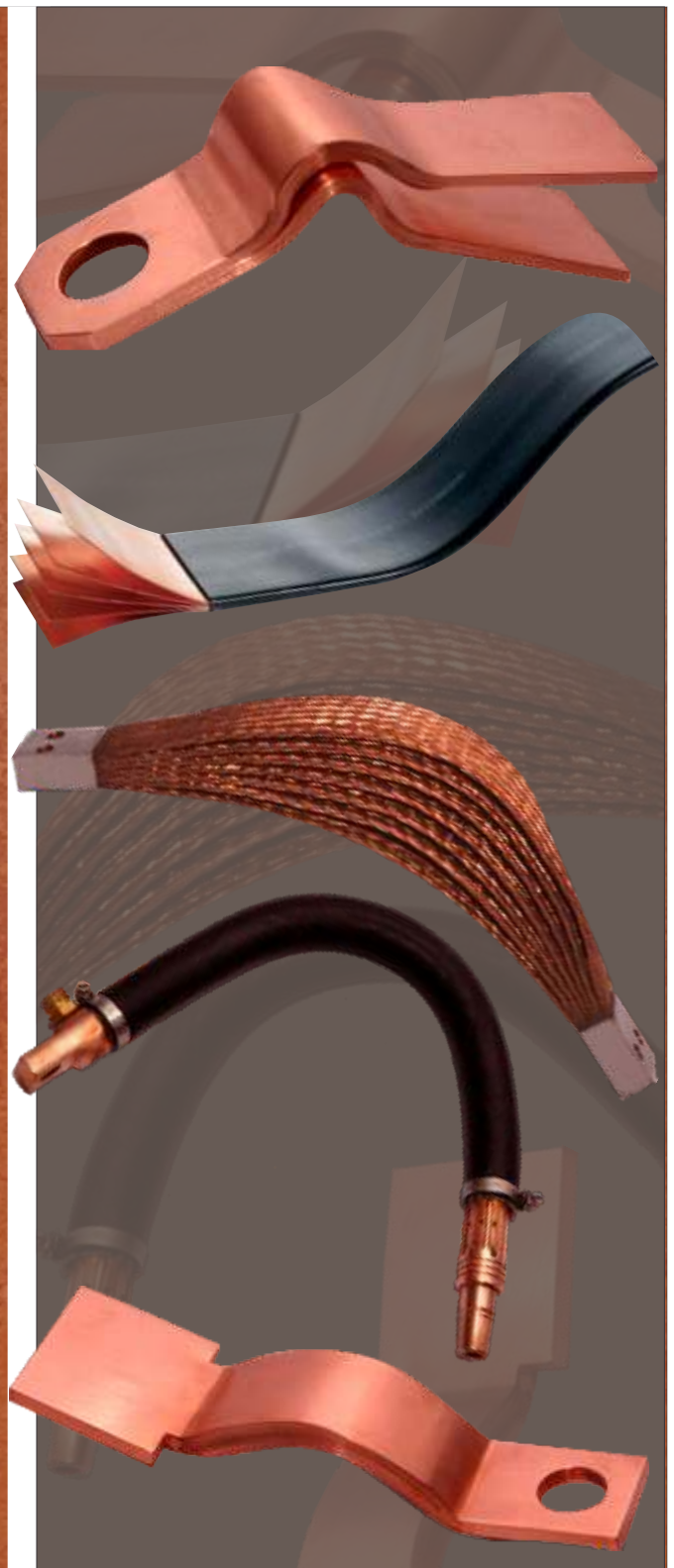
LAMINATED FLEXIBLE CONNECTORS

BRAIDED FLEXIBLE CONNECTORS

BIMETAL SHEETS & BUSBARS

FLEXIBLE INSULATED BUSBARS

WATER COOLED / KICKLESS CABLES



**bajeria industries**  
*Everlasting Connections*

## Company Profile

Bajeria Industries, established in 1963, is a pioneer in the field of Diffusion Technology.

Our specialized production processes and expertise in the field enable us to manufacture highly flexible laminated and braided flexible connectors, flexible braids, ropes, cables, copper-aluminium bimetal sheets, water cooled and air cooled cables, kickless cables, insulated flexible busbars, HRC fuses and PT fuses.

From the tiniest earthing braid to the ultra gigantic laminated flexible connector, almost 400 mm wide and a massive 24000 sq. mm cross section area, all imaginable applications and designs of our customers are covered, fulfilled and executed.

An ISO 9001:2008 company, our products are manufactured to International standards, under the strict supervision of highly qualified technocrats to satisfy and meet the most critical demand of reputed industrial users worldwide.

Our innovation in manufacturing processes always ensures rapid delivery and exceptional quality customized to meet customer requirement which makes us the most reliable and trusted name in this field.



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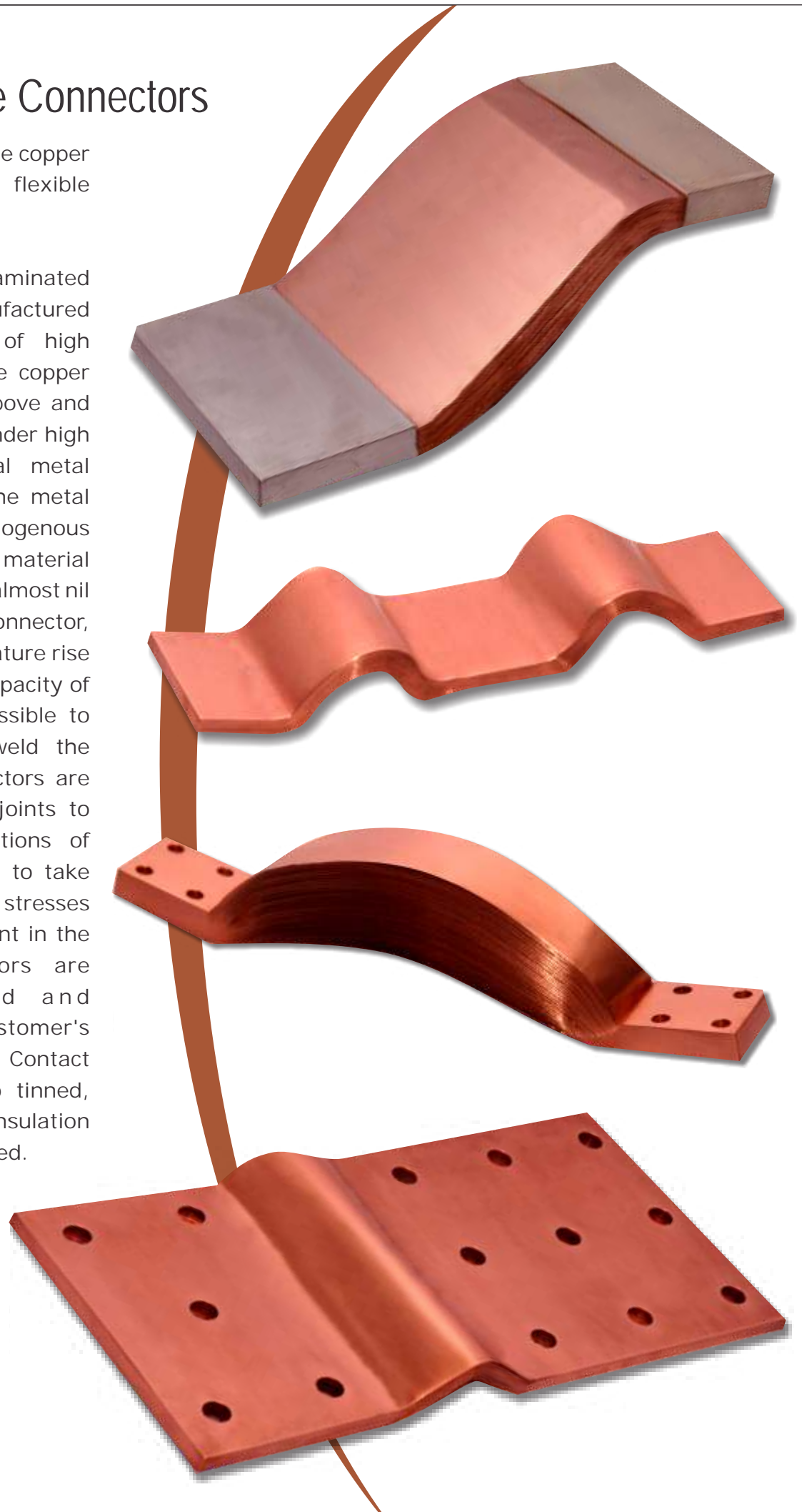
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# Laminated Flexible Connectors

We manufacture highly flexible copper and aluminium laminated flexible connectors.

Our highly flexible copper laminated flexible connectors are manufactured by stacking several foils of high conductivity electrolytic grade copper of thickness 0.04mm and above and then applying high current under high pressure. This is a special metal diffusion process whereby the metal itself melts and forms homogenous bond without using any filler material thus giving a very negligible, almost nil millivolt drop across the connector, thereby reducing the temperature rise and increasing the current capacity of the connector. It is also possible to drill, saw, braze, mill & weld the contact areas. These connectors are used as flexible expansion joints to prevent damages by vibrations of machine or switchgears and to take care of thermal and dynamic stresses caused by short circuit current in the system. Flexible connectors are individually designed and manufactured as per customer's requirement and application. Contact surface can also be electro tinned, nickel, silver or gold plated. Insulation as required can also be provided.



# Braided / Stranded Flexible Braids and Connectors

We manufacture highly flexible round as well as flat braided and stranded braids, tapes, ropes, cables, tubular braids in continuous rolls in insulated as well as non insulated design made of copper, aluminium, stainless steel and steel reinforced copper of diameter from 0.05 mm and above. Braids can be tinned, silver or nickel plated on request.

Our braided flexible connectors are extremely flexible and individually designed and manufactured as per customer's requirement by our specialized compression technology which guarantees extreme compressing and minimal contact resistance. The contact area is made with seamless solderless pressed high conductivity electrolytic grade copper tube which is so very highly compressed that there is almost no air gap in between the wires. The compression process is realized without using additives like tin or soldering. Whether made from braided or stranded braids, whether insulated or non insulated, whether bare or tinned or nickel coated, we are able to manufacture braided flexible connectors upto 6000 sq. mm with contact areas up to 250 mm width. Heat shrink PVC, fiberglass, asbestos, cotton, silicon insulation can also be provided.



## Flexible Insulated Busbars

Flexible insulated busbars consist of several layers of uncoated or tinned copper strips and are insulated with flexible high quality PVC compound. The flexibility and insulation of the bars makes it possible to install them very closely into difficult equipment or small places very easily with hands or simple tools. They can handle heavier current loads than solid busbars of the same cross-section and can withstand vibrations or thermal expansions. They are particularly well used as connectors in switchgears and between transformers, switching devices and prefabricated power networks.



## Copper-Aluminium Bimetal Sheets and Washers

Bimetal sheets are used to prevent bimetallic corrosion at dissimilar metallic joints. Copper and aluminium sheets are diffused together to form a homogenous solid bond. These are manufactured in standard size of 600 mm x 1000 mm and in thickness of 1 mm to 2 mm but can be made available in continuous coil form in thickness upto 5 mm and above. We even manufacture bimetal washers, busbars and wires as per customer's requirement. Bimetallic combination of any dissimilar metal can also be produced.





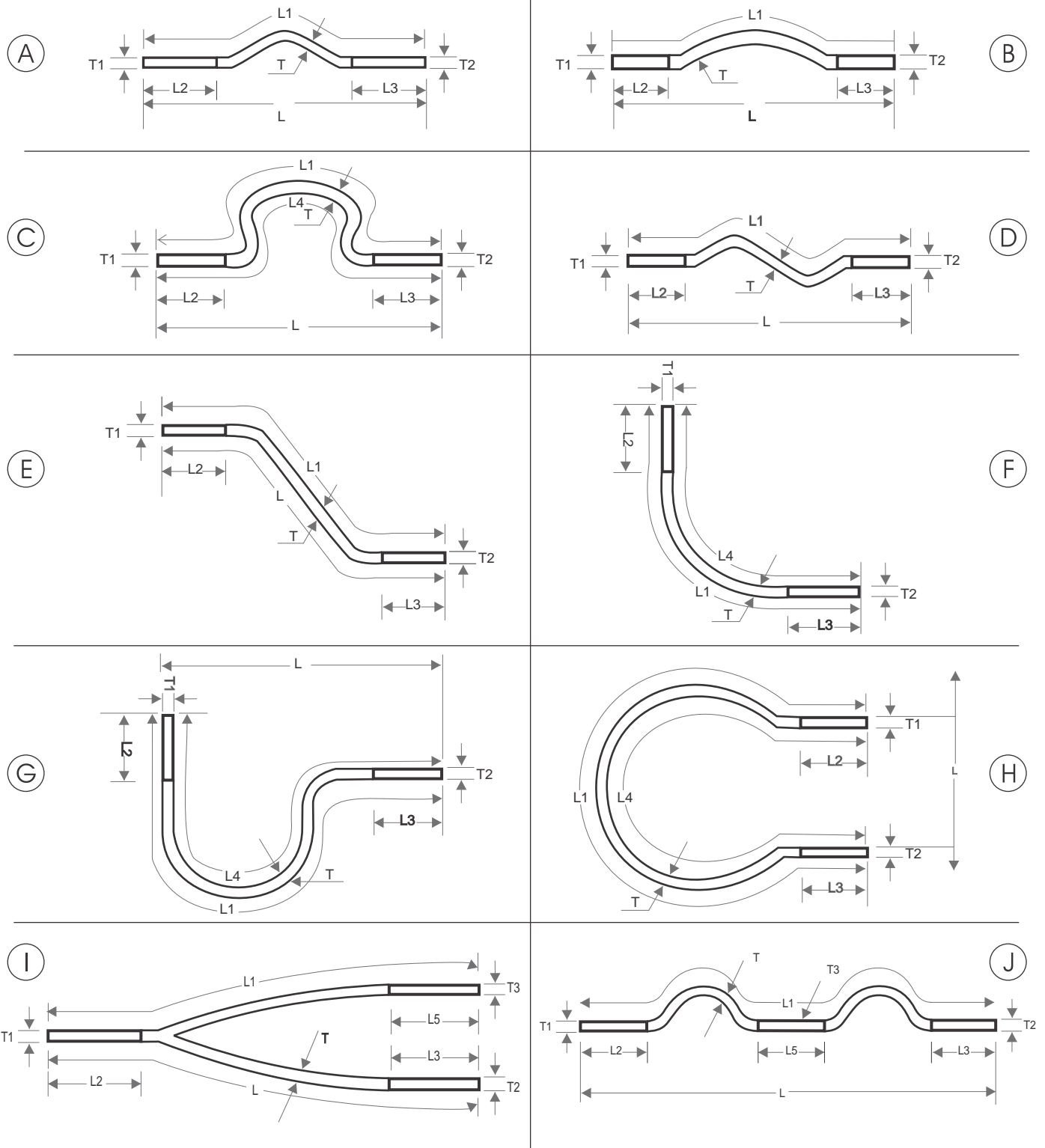
## Water Cooled and Kickless Cables

High current water cooled cables for use in electric arc furnace, induction furnace, vacuum furnace, plasma and graphitizing furnaces, metal industry and welding machines are available in designs and specifications as per customer's requirement. The connection between the contact ends and the copper rope is realized either by a solderless crimping process or soldered process as per application, so as to attain best possible loss free current transfer. Our cables are manufactured using highly flexible copper ropes and a very high quality rubber hose with a special heat resistant covering for protection.

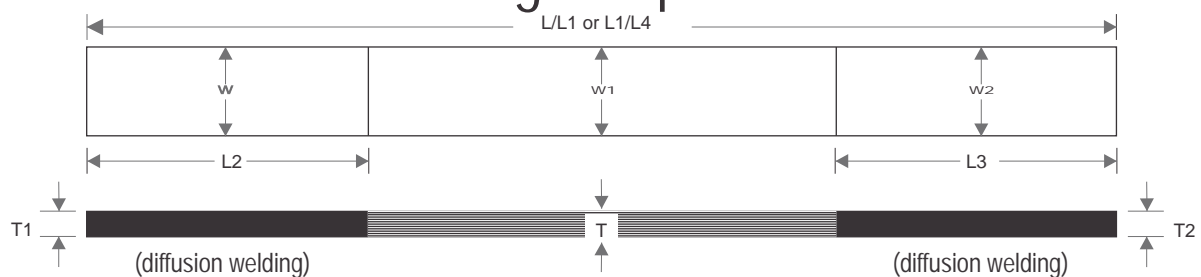
Kickless cables (Alternate Polarity Cables) which are mainly used in welding machines are also manufactured as per customer's requirement.



# Shapes of Flexible Connectors



## Ordering Requirements







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