

FLEXIBLE AND SOLID COPPER / ALUMINIUM BUS BARS



ABOUT SARMAKİNA

High quality production with the advanced technology...

As a **SARKUYSAN** Group Company; **SARMAKİNA** offers wide range products for electromechanical industry such as insulated copper wire, flexible and solid copper / aluminium bus bars and copper plates.

Additionally; **SARMAKİNA** is the leader manufacturer of high quality steel reels / drums, equipments and machinery such as pay-offs, spoolers, rewinding machines and filters for wire and cable industry in Turkey and is one of the leader companies in Europe.

SARMAKİNA continues production with the highest quality and level of customer satisfaction since 1991.

SARMAKİNA will always maintain the high quality in order to meet the customer demands.



INSULATED COPPER WIRE & FLEXIBLE AND SOLID COPPER / ALUMINIUM BUS BARS

INSULATED COPPER WIRE



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INSULATED RECTANGULAR AND ROUND COPPER WIRES

SARMAKINA A.Ş. offers a wide range of high quality insulated winding wires with different insulation types and composition according to customer specifications.

Paper insulated winding wires are covered with one or several layers of paper. Paper types that can be used in the insulation process are specified below.

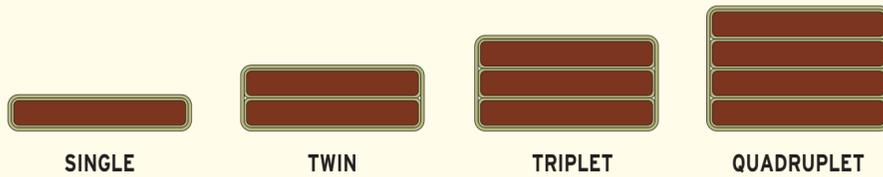
These wires are mainly used in transformers, reactors, motors, generator and traction motors.

NORMATIVE REFERENCES

EN 13601	Copper and copper alloys
IEC 60317-0-2	Specification for particular types of winding wires
IEC 60317-27	Specification for particular types of winding wires
IEC 60554-3-5	Specification for cellulosic papers for electrical purposes
IEC 60851-1 to 6	Winding wires

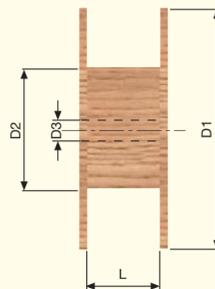
PAPER TYPES

Kraft Paper, Thermokraft Paper (Thermally Upgraded), Nomex, Creped Paper, etc.



REELS

Steel, wooden or plastic reels can be used according to customers' request.



D1	D2	L	D3
500	160	180	56
630	280/315/355		
710	315/355	200/280	
750	355/400		56/80
800	400	250	
1000	450	250/315	56/80
1250	500/630	250-400	
1400	710/750		
1600	750/900		
1800	900/1250	400-500	
2000	1000		

Electrolytic Copper according to EN 13601 Electrolytic Aluminium according EN 573-3 (DIN 1712)

Thickness \ Width	1,12	1,25	1,40	1,60	1,80	2,00	2,24	2,50	2,80	3,15	3,55	4,00	4,50	5,00	5,50	6,30	7,10	8,00	9,00	10,00	11,00	12,00	
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SINGLE COPPER CONDUCTOR



TWIN COPPER CONDUCTOR



TRIPLET COPPER CONDUCTOR



QUADRUPLET COPPER CONDUCTOR



ROUND OR FLEXIBLE COPPER CONDUCTOR



SARMAKINA A.Ş. offers complete flexible and solid copper/aluminium bus bar manufacturing. In order to provide an instant reply to the customer requirements, a standing inventory is continuously maintained for thousands of copper/aluminium bars and strips in a variety of widths and thicknesses.

Flexible and solid copper/aluminium bus bars manufactured according to customers' drawings. Depending on customer request, products can be manufactured as either tin or silver plated.

Fabricated bus bars provide a quick, easy and economical solution for transformer, switchgear and switchboard manufactures.

CUSTOMER BENEFITS

- ➔ Ready to use
- ➔ Saving process cost and time
- ➔ Zero inventory level
- ➔ Prompt delivery

TECHNOLOGY

We continuously re-evaluate our production systems and make investments in equipment to make us faster and more cost-effective.

Our strategy is to ensure customer component's quality first, then look for ways to make the production in most cost efficient way.

We are using shears, saws, presses and slotting, tapping, punching, bending machines and MIG welding in our processes.



QUALITY CONTROL

The products are being controlled in every stage of production process. Our aim is to ensure Customer Satisfaction in terms of quality.



PRODUCTS

• Flexible Copper/Aluminium Bus Bars

Flexible copper/aluminium bus bars consist of (0,10-1,00) mm thick electrolytic Cu/Al strips. They are combined by welding the contact areas of the stacked strips. The connectors are produced in various forms according to customers' drawings.



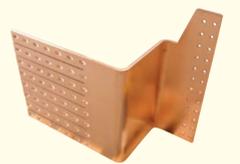
• Solid Copper/Aluminium Bus Bars

Solid copper/aluminium bus bars are manufactured according to customers' drawings by utilizing the latest techniques.



• Copper Plates

Copper plates are manufactured according to customer's drawings by utilizing the latest techniques.



• Copper Rods

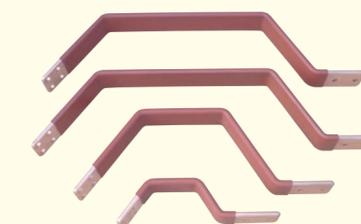
Copper rods are manufactured with different kind of processes such as bending, swaging, piercing.



• Heat Shrinkable Flat & Round Bus Bar Tubing

SARMAKINA A.Ş. offers heat shrinkable busbar tubing in according to customer request and drawings. Heat shrinkable busbar tubing provides insulation enhancement and protection against accidental flashovers. Heat shrinkable tubing can be applied to circular and rectangular copper and aluminium busbars.

Heat Shrinkable Flat Bus Bar Tubing



Heat Shrinkable Round Bus Bar Tubing

