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CONNECTOR STRIPS

The variety of connectors for several uses has been increased in the last decade rapidly. Today we know connector applications in different fields, the most important one for sure is the automotive application, but we know, as well, connectors for telecommunications, computers, white & brown goods (commodity connectors) and, last but not least, for switches and relays.

All these applications have different core points:

Electrical conductivity; Welding-and solderability; Stampability; Corrosion resistance; Spring properties; Relaxation behavior; Softening and continuous use temperature; Welding- and solderability.

Sofia Med is a producer of a wide range of rolled and extruded copper and copper alloy products such as sheets, strips, plates, circles, disks, bare and plated copper bus bars, rods, profiles, components, fabricated parts and wire that are used in a wide variety of building and industrial applications.

Sofia Med is part of the ElvalHalcor Hellenic Copper and Aluminium industry S.A., a leading global manufacturer of aluminium and copper rolled and extrusion products.

Sofia Med is situated in Sofia, Bulgaria, on a 250 000 m² area and has three production units: Foundry, Rolling and Extrusion.

With more than 85 years of manufacturing experience and significant investments, **Sofia Med** has evolved into a competitive modern European company with customers globally.

Sofia Med operates under strict quality, environmental, as well as health and safety management systems, in compliance with ISO 9001:2015, IATF 16949:2016, ISO 14001, ISO 45001, ISO 50001:2018, as well as follows the guidelines of ISO 26000:2010 for social responsibility.

The wide product range of **SofiaMed** meets the requirements of the Unified European standards (EN), as well as BS, ASTM, JIS standards, or any other specific customer request.

COPPER

Pure copper is still playing an important role in the spectrum of the materials to be used as connector. Sofia Med can produce all relevant coppers in equivalent qualities like SM1100, SM1100 (OF-copper), SM1030 (Cu-PHC), SM1031 (Cu-HCP), SM1201 (Cu-DLP) and SM1220 (Cu-DHP).

LOW ALLOYED COPPER

Low-alloyed coppers become more and more important for electromobility applications; these are, as well, in our product range: SM201 (CuSn0,15), SM 202 (CuFe0,10), SM194 (CuFe2p) and SM301 (CuZn0,5).

BRASS

The biggest volume of the connectors nowadays is still produced in brass. **SofiaMed** produces all, from the low zinc content of SM305 (CuZn5) to the highest SM340 (CuZn40).

SPECIAL ALLOYS = HIGH PERFORMANCE ALLOYS (HPA'S)

Because of the very good relaxation behavior and high tensile strength with good electrical conductivity, the copper-nickel-silicon alloys (CuNiSi or Corosons) have been identified as very important alloys in the connectors industry. **Sofia Med** can produce solution annealed qualities for all important CuNiSi strips.

SofiaMed is one of the leading suppliers of copper and copper alloys in rolled form. With an investment program worth over 254 million € for the period 2000-2024, **Sofia Med** is prepared to face all challenges the connector market provides.

GENERAL PROPERTIES

Traverse spooling

Thickness	0,1 – 2,0 mm
Width	8 – 60 mm
CID	300/400/500 mm*
Coiling width	max 400 mm

Hot dip tinning

Thickness	0,1 – 1,5 mm
Width	10 – 380 mm*
Tin layer	1-15 mm <i>*smaller width upon request</i>

Dimensions

Thickness	0,075 mm - 5,00 mm
Width	8,00 mm - 1250 mm

Multiple pancake

Thickness	0,15 mm - 1,00 mm
Width	8,00 mm - 100,00 mm

• **Electroplating upon request**

COPPER	NAME	EN	UNS	JIS	Electrical Conductivity		
					in IACS%	HV min	HV max
SM1100	Cu - ETP	CW004A	C11000	C1100	100	40	130
SM1010	Cu - OF	CW008A	C10200	C1010	98	40	130
SM1030	Cu - PHC	CW020A	C10300	C1030	97	40	130
SM1031	Cu - HCP	CW021A	---	---	97	40	130
SM1201	Cu - DLP	CW023A	C12000	---	90	40	130
SM1220	Cu - DHP	CW024A	C12200	C1220		40	130

LOW ALLOYED COPPER

SM201	CuSn0,15	CW117C	C14410	C1441	88	80	160
SM202	CuFe0,1P	---	C19210	C1921	85	80	160
SM194	CuFe2p	CW107C	C19400	C1940	60	80	170

BRASS

SM301	CuZn0,5	CW119C	---	---	83	40	180
SM305	CuZn5	CW500L	C21000	C2100	57	45	180
SM310	CuZn10	CW501L	C22000	C2200	42	50	180
SM315	CuZn15	CW502L	C23000	C2300	36	55	180
SM328	CuZn28	CW504L	---	---	30	55	160
SM330	CuZn30	CW505L	C26000	C2600	28	55	180
SM333	CuZn33	CW506L	C26800	C2680	28	55	180
SM335	CuZn35	CW506L	C26800	C2680	27	55	180
SM336	CuZn36	CW507L	C27000	C2700	27	55	180
SM337	CuZn37	CW508L	C27200	C2720	27	85	140
SM340	CuZn40	CW509L	C28000	C2800	26	80	140
SM425	CuSn3Zn9	---	C42500	C4250	N/A	83	---
SM464	CuZn38Sn1	CW719	C46400	C4640	N/A	85	125

SPECIALTIES

SM7600	CuNi1,5Si	CW109C	C19010	-	60**	100	180
SM7026	CuNi2Si	CW111C	C70260	C7026	50	70	220
SM6475	CuNi2SiSn	-	C64750	C6475	40**	100	160
SM76S	CuNi1,5SiZn	CW?	C190050	C19005	58**	100	180
SM7025	CuNi3SiMg	CW112C	C70250	C7025	15	65	80
SM7521	CuNi18Zn20	CW409J	C76400	C7641		85	230
SM7701	CuNi18Zn27	CW410J	C77000	C7701		90	250
SM7060	CuNi10	CW352H	C70600	C7060		-	-

* in project status

**Electrical conductivity depends on specifications