

SOFIA MED

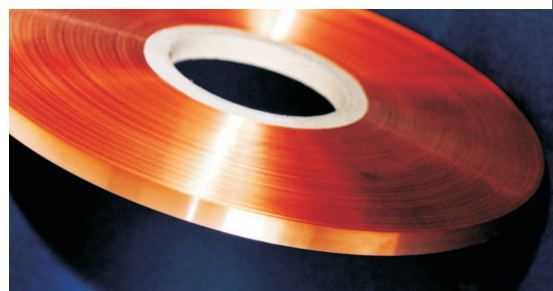
STRIPS FOR CONNECTORS



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, bus bars, rods, profiles, wire that are used in a wide variety of applications.

The company is part of the HALCOR group, which is also involved in the production of metal products, such as copper and brass tubes, power and telecommunication wires.

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

With almost 80 years of manufacturing experience and significant investments, SOFIA MED has evolved into a competitive modern European company with customers internationally, supported through the worldwide distribution channel network of HALCOR.

SOFIA MED operates under strict quality, environmental, as well as health and safety management systems, in compliance with ISO 9001, ISO 14001 and OHSAS 18001 standards.

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

SOFIA MED is one of the leading suppliers of copper and copper alloys in rolled form.

With an investment program worth over 170 million € for the period 2001-2015, SOFIA MED is prepared to face all challenges the connector market provides.

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 (ETP-copper), SM1010 (OFHC-copper), SM1030 (Cu-PHC), SM1031 (Cu-HCP), SM1201 (Cu-DLP) and, last but not least: SM1220 (Cu-DHP).

LOWALLOYED 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. SOFIA MED produces all, from the low zinc content of SM305 (CuZn5) to the highest SM340 (CuZn40). As well the replacements of CuSn6 and CuSn8 with SOFIA MED SM688 (CuZn23Al3Co) becomes more and more important.

SPECIAL ALLOYS = HIGH PERFORMANCE ALLOYS (HPA'S)

Because of the very good relaxation behavior and the still high tensile strength with good electrical conductivity junctioned, the copper-nickel-silicons (CuNiSi or Corosons) have been identified as the most important alloys with growing rates of 2 digits. SOFIAMED can prepare the non solution annealed qualities right now for all important CuNiSi strips. Solution annealed can be produced after August 2017. SM7600 (CuNi1.5Si = C 19010), SM7025 (CuNi3SiMg = C7025)

GENERAL PROPERTIES

Dimensions:

Thickness: 0.075mm - 5.00mm

Width: 8.00mm - 1250mm

Pretinned surface - upon request.

Multiple pancake

Thickness: 0.15mm – 1.00mm

Width: 8.00mm – 100.00mm

COPPER	NAME	DIN	UNS	JIS	Electrical Conduc- tivity in IACS%	HV min	HV max
SM1100	Cu - ETP	CW004A	C11000	C1100	100	40	130
SM1010	OF - Cu	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	C1200	90	40	130
SM1220	Cu - DHP	CW024A	C12200	C1220	78	40	130
LOW ALLOYED COPPER							
SM201	CuSn0,15	CW117C	C14410	C1441	88	80	160
SM202	CuFe0,10P	-----	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
SM688	CuZn23Al3Co	CW703R	C68800	C6880	17	150	260
SPECIALTIES HPA							
SM7600	CuNi1,5Si	CW109C	C19010	-----	60	100	180*
SM7026	CuNi2Si	CW111C	C70260	C7026	45	100	160*
SM6475	CuNi2SiSn	-----	C64750	C6475	40	100	160*
SM7025	CuNi3SiMg	CW112C	C70250	C7025	43	180	230*

*non solution annealed

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