

# C50725 - CuSn2Zn2Fe0,1P - C50725



## Application range:

Connectors

### Physical properties

Density*	g/cm <sup>3</sup>	8,9
Thermal conductivity*	W/(m·K)	150
Electr. Conductivity ***	MS/m	19
Electr. Conductivity ***	IACS (%)	33
therm. Expansion coefficient **	10 <sup>-6</sup> K	17,5
Modulus of elasticity*	GPa	113

### Chemical composition (%)

Cu: Rest	P: 0,02 - 0,06
Sn: 1,5 - 2,5	Other: max. 0,5
Zn: 1,5 - 3,0	
Fe: 0,05 - 0,20	

Condition	Temper class	Tensile strength T.S. min.-max. MPa	Yield strength Rp 0,2 min. MPa	Elongation A50 min. %	Hardness (Reference value) HV	Electrical conduc- tivity MS/m	Bendability		Bendability	
							R/t <sup>1) 2) 3)</sup> 90°		R/t <sup>1) 2) 3)</sup> 180°	
							gw Strip thickness ≤0,5 mm	bw Strip thickness ≤0,5 mm	gw Strip thickness ≤0,5 mm	bw Strip thickness ≤0,5 mm
cold rolled	R390	390 - 500	280	20	min. 130	19	0	0	0	0
cold rolled	R510	510 - 600	470	6	min. 165	19	0	0	0	1
cold rolled	R550	550 - 630	510	5	min. 175	19	0	0,5	1	1,5
cold rolled	R600	600 - 670	575	3	min. 190	19	1	1,5	2	2,5

\* Reference values at room temperatur \*\* Between 20 and 300 °C

\*\*\* Values for the lowest temper class

<sup>3)</sup> values for stress relieved qualities

<sup>1)</sup>  $r = x \cdot t$  (strips up to  $t = 0,50$  mm) <sup>2)</sup> Sample width = 10 mm / bending at smaller bending widths on request (Evaluation according to page 5.4.2. of Hand-Out)

Disclaimer: Due to possible changes and variations in the production process, the information published in the hand-out / brochure / datasheet cannot be guaranteed. The right to changes and modifications in the composition of the products is hereby explicitly reserved, so no warranty claim shall be derived from the information provided.

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