

Technical Data Copper-Tin Alloys ¹⁾

		Bronze			
		CuSn0,6	CuSn5	CuSn6	CuSn8
Material - No.	DIN / EN	-	CW451K	CW452K	CW453K
	UNS	C50100	C51000	C51900	C52100
Nominal Composition	[%]	0,6 Sn Rest Cu	5 Sn Rest Cu	6 Sn Rest Cu	8 Sn Rest Cu
Conductivity ²	[m/(Ohm mm ²)]	37	9,9	8,1	7,0
Conductivity ²	[% IACS]	63	17	14	12
Thermal Conductivity ²	[W/(mK)]	220	96	75	67
Coefficient of Thermal Expansion ³	[10 ⁻⁶ /K]	17	17	18	18
Tensile Strength annealed	[N/mm ²]	290	400	420	470
Elongation annealed	[%]	30	40	55	70
Tensile Strength hard	[N/mm ²]	460	820	870	900
Density	[g/cm ³]	8,9	8,9	8,8	8,8

1) Nominal data for diameter 0,8 mm

2) At 20° C

3) Temperature range 20 - 200° C