

Copper KD58



Material Designation	
Sundwiger	KD58
DIN-EN Symbol	Cu-ETP / E-Cu58
DIN-EN	CW004A
UNS	C11000

About the Alloy
Cu-ETP is an oxygen-containing copper that has very high electrical and thermal conductivity. It has excellent forming properties. Due to its oxygen content, its soldering and welding properties are limited.

Reference to Standards	
DIN	EN 12166

Typical Applications
• Contacts • Fasteners • Screws and rivets for electrical applications

Physical Properties*		
Sundwiger	KD58	
Electrical conductivity	100	% IACS
Electrical conductivity	58	MS/m
Thermal coefficient of electrical resistance (0..100 °C)	3,7	10-3/K
Thermal conductivity	394	W/(m·K)
Thermal expansion coefficient (20..300 °C)	17,7	10-6/K
Density in g/cm ³	8,92	g/cm ³
Modulus of elasticity	130	GPa = kN/mm ²
* Reference values in soft condition		

Mechanical Properties*		
Sundwiger	KD58	
Tensile strength in N/mm ²	R200	200 - 250
	R220	220 - 260
	R240	240 - 300
	R290	290 - 360
	R360	≥ 360
Elongation A50 in % , soft		> 30
* Reference values		

Your Contact Person	
Worldwide	
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Available Dimensions		
Square wire	5,1 mm 7,4 mm	max. 2000 kg
Round-wire	1,2 - 6,2 mm in Coils	max. 200 kg
	1,8 - 6,2 mm on stands	max. 1000 kg
	0,5 - 3 mm on reels	max. 1000 kg
	1,5 - 3 mm on acropaks	max. 400 kg
	on request: in drums	max. 400 kg

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