

Low-Alloyed Phosphor Bronze (Copper-Tin) BD01 | BD03 | BD06



Material Designation			
Sundwiger	BD01	BD03	BD06
DIN-EN Symbol	CuSn0,15	(CuSn0,3)	CuSn0,6
DIN-EN	CW117C	CW129C	-
UNS	C14410 / C14415	C18835	C50100

Reference to Standards	
DIN	EN 12166

Typical Applications
<ul style="list-style-type: none"> • Conductor wire • Harness wire • Flat wire • Special screws • Pressed parts • Rivets

About the Alloy
Wire of low-alloyed phosphor bronze has a good electrical conductivity and a better softening behaviour than copper.
Wire made of this alloy is therefore used for conductive wire in electrical and electronic components and harness wire in vehicles.

Mechanical Properties*				
Sundwiger		BD01	BD03	BD06
Tensile strength in N/mm ²	soft	260 - 320	270 - 330	280 - 340
	hard	340 - 400	350 - 420	380 - 450
	springshard	350 - 420	380 - 450	400 - 470
	extra springshard	380 - 450	400 - 470	420 - 490
	super springshard	450 - 570	470 - 620	490 - 640
Elongation A100 in %, soft		> 30		
* Reference values				

Physical Properties*			
Sundwiger	BD01	BD03	BD06
Electrical conductivity in % IACS, soft	≥80	≥68	≥63
Electrical conductivity in MS/m, soft	≥46.4	≥39.4	≥36.5
Density in g/cm ³	8.9	8.9	8.9
* Reference values			

Your Contact Person	
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Available Dimensions		
Rolled, modified square wire	5.1 mm	max. 2000 kg
	7.4 mm	
Round wire	1.2 - 6.2 mm in coils	max. 200 kg
	1.8 - 6.2 mm on stands	max. 1500 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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