
PBW2,PBW3

Phosphor Bronze Wire

Alloys : PBW2, PBW3 (Phosphor Bronze Wire)

[JIS H 3270]

Good fatigue resistance, corrosion resistance, and wear resistance. Used in coil springs, spiral springs, wire mesh, etc.

JIS	JIS Code	Electrical Resistivity [$\mu\Omega\text{m}$]
PBW2	C5191W	0.13
PBW3	C5212W	0.14

JIS	Thermal Expansion Coefficient $\times 10^{-6}/$	Specific Heat J/g·K (20°C)	Melting Point °C	
			liquid phase	solid phase
C 5191	18.0	8.83	1045	910
C 5212	18.2	8.8	1020	880

Chemical Composition	Alloy Number	Sn	P	Cu + Sn + P
(%)	C 5191	5.5~7.0	0.03~0.35	≥ 99.5
	C 5212	7.0~9.0	0.03~0.35	≥ 99.5

Alloys	Type	Diameter (mm)
C5191W	Wire	$\phi 1.00 \sim 0.03$
C5212W	Wire	$\phi 1.00 \sim 0.03$

JIS Code
O
1/2H
H