## SUMITOMO (SEI) STEEL WIRE CORP.

**Excellent Tensile Strength-Conductivity balance** 

## TCC(Thick Copper Covered) WIRE

**50** 

40

**30** 

10

0

導電率

### **TCC Wire - Structure**

 By covering copper with high strength special copper wire, made both excellent TS and conductivity at the same time

#### **TCC Wire - Feature**

- Various copper wire to be changed (heat resistant copper).
  - **⇒ Made excellent sag resistance**
- Better in processability and soldering, and it contributes to cost savings which does not require post-plating base.

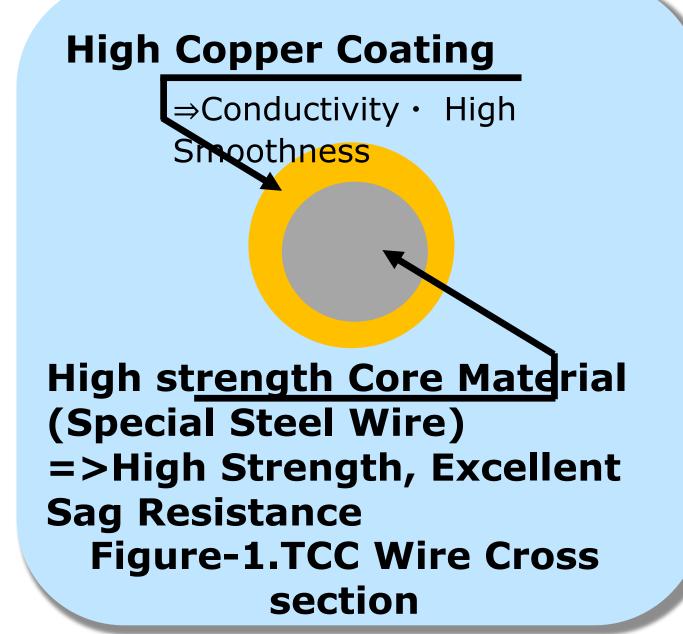
# TCC Wire – Characteristic Comparison

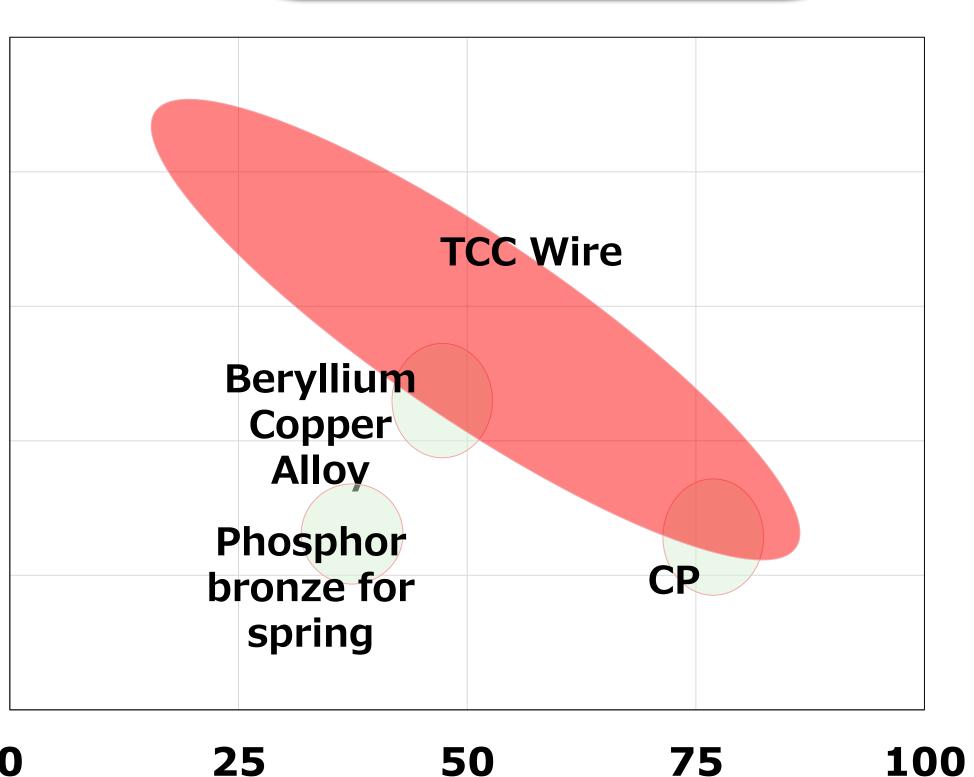
• Conductivity under 35% IACS that is equivalent to Beryllium of copper Alloy or better as for springiness.

Material design is possible based on wide range of requirements.

## TCC Wire - Application to be used

Electric/Contact of Electric Parts (Spring, Connector, Brush, Pin)





25 50 75 Transverse Elastic Modulus (GPa)

Both the spring property of the piano wire and the conductivity of the copper alloy are compatible

## TCC Wore - Specification

**Table-1.TCC Wire Spec** 

Diameter (mm)	Tolerance Diameter (mm)	Conductivity (%IACS)	TS (MPa)
0.03-	+0.000	10-	2800-
0.6		50	1350

Figure-2. Comparison between TCC Wire & conventional materials

