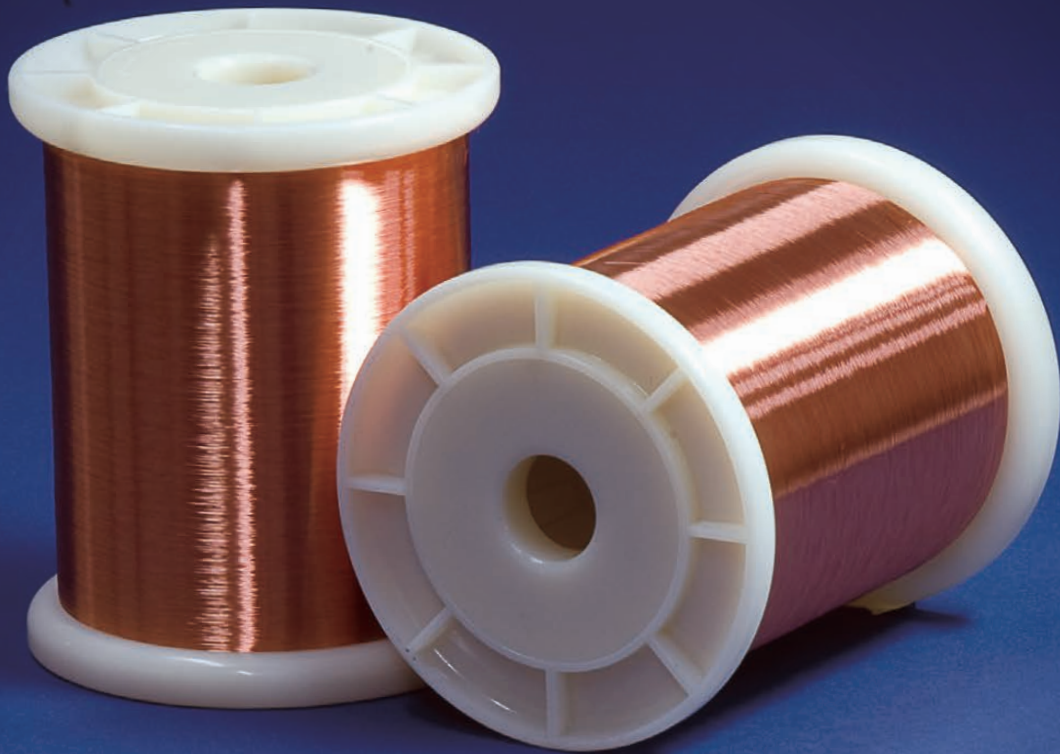


高抗张力漆包线 (HTW, SPHTW)

High-Tension Magnet Wires



高抗张力磁性线（高张力线：HTW、SPHTW）是使用铜为主体的合金导体的极细漆包线。在不影响铜的特性的同时，具有高强度。

With a conductor made of a copper-based alloy, the High-Tension Magnet Wire (HTW, SPHTW) has a high tensile strength, while retaining the properties of copper.

特长 FEATURES

① 抗拉强度比铜线大25%（提高了绕线速度，加强了线圈端子部的防断线能力）

Tensile strength-approx. 25% higher than copper wire (Higher speed coil winding and prevention of wire snapping at coil terminal are attained)

② 导电率93%以上（SPHTW为88%以上）

Conductivity : 93% or more (HTW)
Conductivity : 88% or more (SPHTW)

③ 绝缘层、接合层的特性和铜线完全相同

Identical to copper magnet wires in terms of properties of insulating and bonding films

④ 焊接性能和铜线同等

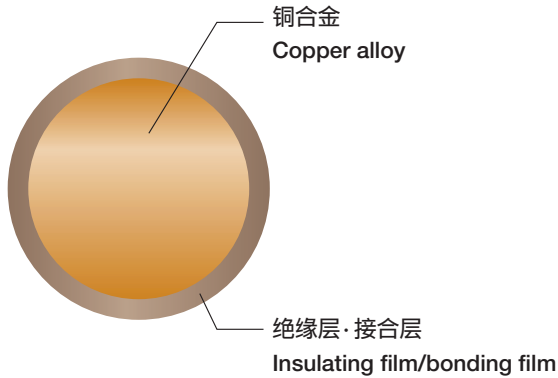
Same as copper magnet wires in solderability

高抗张力漆包线 (HTW, SPHTW)

High-Tension Magnet Wires



结构 CONSTRUCTION



型号说明 Product name

2 - PE LOCKHTW
 (A) (B) (C)

- (A) 被覆层厚度的JIS规格 (1类、2类、3类)
 (B) 绝缘层的种类
 (C) 接合层的种类
 (A) JIS standard of film thickness (class 1. 2. 3)
 (B) Type of insulating film
 (C) Type of bonding film

用途 Applications

头线圈、可动线圈、钟表线圈
 Head coils, Moving coils, Watch coils

制造范围 Range of manufacture

标识号 Code	绝缘层 Insulating Film	接合层 Bonding Film	制造范围 (mm) Range of Manufacture
HTW	LSUE UE	MZW LOCK LOCK Y1, Y3, Y5	0.025 ~ 0.09
SPHTW	LSUE UE	MZW LOCK LOCK Y1, Y3, Y5	0.025 ~ 0.09

高抗张力漆包线

HTW (High-Tension Magnet Wire)
 SPHTW (Super High-Tension Magnet Wire)

特性 Characteristics

特性项目 Items	铜线 Cooper Wire	HTW	SPHTW
耐力 (N/mm ²) Proof Strength	149 ~ 182	180 ~ 220	234 ~ 297
比重 Specific Gravity	8.89	8.90	8.90
导电率 (% IACS) Electrical Conductivity	100	93.2	88.4
比电阻 (Ω·m) Specific Resistance	1.724 × 10 ⁻⁸	1.850 × 10 ⁻⁸	1.950 × 10 ⁻⁸
抗拉强度 (N/mm ²) Tensile Strength	243 ~ 297	306 ~ 374	342 ~ 418
伸长率 (%) Elongation	10 or over	20 or over	20 or over

关于超极细漆包线 (尺寸未滿 0.03mm),
 也有伸长率数值比表中数值低的品种。

There is the kind that growth deteriorates than the value of the top
 about the ultra fine wire. (size less than 0.03mm)

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