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简介

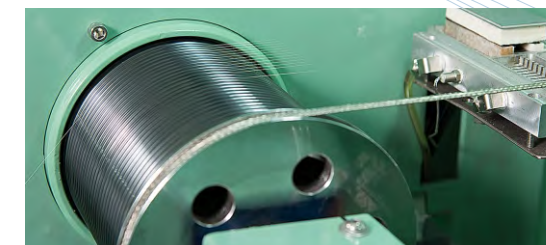
中山市精微特种线材有限公司，专业研发、生产和销售超微细漆包线、自粘漆包线及各种特种线材，产品广泛应用于高档音圈、高档音响连接线、振动马达、磁头线圈、手表线圈、moving线圈等。

Zhongshan KINVE Special Wire Co Ltd is specialized in research, development and producing ultra-fine enameled wires, self-bonding wires and other special wires, with applications in high-end speaker coils, high-end stereo connection cables, vibration motors, magnetic head coils, electronic watch coils and moving coils.



公司拥有无尘车间面积 5000平方米，高精度、全自动生产线100多条，聚集了行业内最高端的技术研发人才，是国内最先进的微细及特种线材研发、生产基地。

We have 5000 square meters dust-free workshop and over 100 high-accuracy & fully automatic production lines. KINVE attracted some of the most talented technicians from the enameled wire industry, and it is the most advance production center in making and developing ultra-fine wires and special wires in China.



超微细漆包圆铜线 Ultra-fine Enameled Round Copper Wire

名称 Description	标记 Designation	温度等级 Thermal Grade(°C)	直径范围 Diameter(mm)	特性 Feature	应用 Application	示意图 Schematic Diagram
聚氨酯漆包圆铜线 Polyurethane Enameled Round Copper Wire	OUEW-3UEW	155~180	0.010-0.03	<ul style="list-style-type: none"> 直焊性 线材柔软 绝缘性能好 漆膜厚度均匀, 排线平整 可提供多种颜色(N,R,G,B,BK) 	音圈、钟表线圈、空心杯振动马达、电感、咪芯	<p>超微线直径 (Φ10μm) 人类头发直径 (Φ80μm)</p> <p>超微线的直径为人类头发直径的1/8 The diameter of a ultra-fine wire is only 1/8 that of a human hair.</p>

自粘漆包线 Self-bonding Enameled Wire

名称 Description	标记 Designation	温度等级 Thermal Grade(°C)	直径范围 Diameter(mm)	特性 Feature	应用 Application	示意图 Schematic Diagram
溶剂粘合 聚氨酯漆包线 (导体: 铜,铜包铝) Solvent Bond Polyurethane Enameled Wire (Conductor: copper, copper-clad aluminum)	Y① Y② Y③	130~180	0.01~0.5	<ul style="list-style-type: none"> 具有良好直焊性 在相应的粘合条件下, 具有优秀的粘接力 不同用途产品粘接力强度适合 具可染色性, 颜色多样, 如:【本色(N), 红色(R), 绿色(G), 蓝色(B), 黑色BK】 	音圈 (如: 麦克风、耳机、喇叭、助听器等)、微型振动马达 (聚焦马达、扁平马达、空心杯马达等) 和电子电器类产品 (如: 电感、钟表线圈、投币机线圈、蜂鸣器等)、磁头、IC卡等。	<p>导体 Conductor 绝缘层 Insulation layer 胶土层 Bonding layer</p>
热风粘合 聚氨酯漆包线 (导体: 铜,铜包铝) Hot Air Bond Polyurethane Enameled Wire (Conductor: copper, copper-clad aluminum)	H H① H②	130~180	0.01~0.5	<ul style="list-style-type: none"> Directly solderable Excellent bonding strength Suitable for different bonding strength requirements applications Easily dyable, various coloring options: Natural, Red, Green, Blue, Black 	Voice coil (i.e.: microphone, earphone, speaker, hearing aid), micro vibration motor (i.e.: focus-driving, coin-type, coreless-type) and other electrical and electronics components (i.e.: inductor, watch coil, coin machine coil, buzzer), magnetic head, IC card.	

电感用自粘漆包线 Self-bonding Enameled Wire for Inductor

名称 Description	标记 Designation	耐热等级 Thermal Grade(°C)	加热温度 Heating temperature(°C)	直径范围 Diameter(mm)	特性 Feature	应用 Application	样品图 Samples
聚酰胺酰亚胺自粘线 Self-bonding Polyamideimide Enameled Wire	AIKSW	220	170~190	0.07~0.60	<ul style="list-style-type: none"> 耐热等级220级; 自粘热塑型, 粘着强度高; 	一体成型电感、贴片电感、耐高温电机、变压器等。	


喇叭 (音圈) 自粘漆包线 Self-bonding Enameled Wire for Speaker (voice coil)

名称 Description	标记 Designation	耐热等级 Thermal Grade(°C)	加热温度 Heating temperature(°C)	直径范围 Diameter(mm)	特性 Feature	应用 Application	样品图 Samples
聚酯音圈线 Polyester Enameled Wire	PEKVV	155	180~200	0.05~0.60	<ul style="list-style-type: none"> 耐热等级155级; 自粘醇溶热硬化型, 粘着强度高; 	音圈 (如: 汽车音响、笔电、耳机、蓝牙音响、扬声器等) Voice coils in automobiles, notebooks, earphones, blue-tooth stereos, speakers.	
聚酯亚胺音圈线 Polyimide Enameled Wire	EIKVV	200	180~200	0.05~0.60	<ul style="list-style-type: none"> 耐热等级180级; 自粘醇溶热硬化型, 粘着强度高; 	高温音圈 (如: 汽车音响、家庭影院、大功率扬声器等) High temp. voice coils in automobiles, household AV, high power speakers	
聚酰胺酰亚胺音圈线 Polyamideimide Enameled Wire	AIKVV	220	180~200	0.06~0.60	<ul style="list-style-type: none"> 耐热等级200级; 自粘醇溶热硬化型, 粘着强度高; 	超高温音圈 (如: 大功率扬声器等) Ultra-high temp. voice coils in high power speakers	
铜包铝聚酯音圈线 Polyester Enameled CCA Wire	PEKVCCAW	155	170~200	0.05~0.60	<ul style="list-style-type: none"> 耐热等级155级; 自粘醇溶热硬化型, 粘着强度高; 导体材料铜包铝, 质轻灵敏度高; 	高灵敏轻质音圈 (如: 耳机扬声器等) High sensitivity & light weight voice coils in earphones	
铜包铝聚酯亚胺音圈线 Polyimide Enameled CCA Wire	EIKVCCAW	180	170~200	0.05~0.60	<ul style="list-style-type: none"> 耐热等级180级; 自粘醇溶热硬化型, 粘着强度高; 导体材料铜包铝, 质轻灵敏度高; 	高灵敏轻质音圈 (如: 耳机扬声器等) High sensitivity & light weight voice coils in earphones	

自粘漆包线命名 Self-bonding Enameled Wire Designations

分类 Type	自粘层 Self-bonding Layer				绝缘层 Insulation Layer			
	材料 Bonding Resin	粘结方式 Bonding Method	最低粘结温度 Lowest Bonding Temp.		聚氨酯 Polyurethane L	改性聚氨酯 Modified Polyurethane A	改性聚氨酯 Modified Polyurethane F	
			温度 Temp.(°C)	标记 Designation				
热塑型 Thermoplastic	缩丁醛 Polyvinyl Butyral	热风/酒精 Alcohol/Hot Air	100	P	KS-LP	KS-AP	KS-FP	
			150	Y①	KS-LY①	KS-AY①	KS-FY①	
	聚酰胺 Polyamide	酒精 Alcohol	180	Y②	KS-LY②	KS-AY②	KS-FY②	
			120	H	KS-LH	KS-AH	KS-FH	
	聚酰胺 Polyamide	热风, Hot Air	150	H①	KS-LH①	KS-AH①	KS-FH①	
			170	H②	KS-LH②	KS-AH②	KS-FH②	
热固型 Thermosetting	聚酰胺 Polyamide	酒精 Alcohol	200	Y③	KS-LY③	KS-AY③	KS-FY③	
			热风, Hot Air	180	H6	KS-LH6	KS-AH6	KS-FH6
				200	H7	KS-LH7	KS-AH7	KS-FH7
软化击穿 Cut-through (°C)					Min. 170	Min. 200	Min. 230	
绝缘层热级 Thermal grade (°C)					130	155	180	
焊锡温度 Soldering Temp. (°C)					350~360	380~390	380~390	

高张力漆包线 Enameled High Tension Wire

名称 Description	定义 Definition	特点 Feature	应用 Application
高张力漆包线 (银铜合金) Enameled High Tension Wire (Copper Silver Alloy)	高张力线是专为高机械要求的应用而设计的铜合金自粘漆包线, 适用于对抗弯性能和可靠性能有高要求的应用。 A self-bonding copper alloy wire with strong mechanical property, suitable for applications demanding high bending strength and stability.	高抗拉强度 (比纯铜线高25%左右)、良好的抗弯性能、高电导率 ($\geq 93\%$ IACS)、良好的可焊性、良好的音频特性。不同导体材料的产品可满足不同层次的品质要求。 High tensile strength (25% higher than copper wire), good bending strength, high conductivity ($\geq 93\%$ IACS), excellent solderability, excellent audio property.	广泛应用于音圈(如微型扬声器)、振动马达、受话器、打印机磁头线圈、扬声器音圈、磁头线圈、高功率输出音圈、手表线圈、手机音圈、喇叭音圈、moving线圈。 Audio coil (micro speaker), vibration motor, receiver, magnetic head coil, watch coil, moving coil. 

超高张力线漆包命名 Designation of Enameled Super-high Tension Wire

SKHT 2 KS — A H② (R) 0.050mm

① ② ③ ④ ⑤ ⑥ ⑦

- ① 表示导体为超高张力材料 Super-high tension conductor
- ② 表示厚漆膜 Thickness of insulation
- ③ 表示精微漆包线的标识 KINVE enameled wire
- ④ 表示绝缘层耐热等级为155级 Thermal 155
- ⑤ 表示自粘层材料 Bonding layer resin
- ⑥ 表示颜色 (不标注则为原色) Color code (blank for natural)
- ⑦ 表示导体直径 Conductor diameter

不同高张力漆包线主要特性 Properties of various enameled high tension wires

性能 Property	铜 Copper	KHT	SKHT	KHT(N1)
抗拉强度 (MPa) Tensile Strength	240~270	290~340	350~390	270~280
屈服强度 (MPa) Yield Strength	120~160	170~230	250~290	16~170
抗弯特性 (%) Bending Resistance	100	125	560	110
电导率 (%/ACS) Conductivity	100	93	93	98

铜合金漆包线 Enameled Copper Alloy Wire

名称 Description	定义 Definition	特点 Feature	应用 Application
铜合金漆包线 Enameled Copper Alloy Wire	导体由铜合金制成的漆包线。满足某些应用对漆包线特殊特性的要求, 例如特殊的导电性, 机械性能, 抗折弯能力, 抗疲劳性, 温度系数和耐腐蚀性。合金分为铜银、铜锌、铜锡、铜镍合金。 An enameled wire made of copper alloy conductor for special applications, i.e. special requirement of high conductivity, mechanical property, bending strength, anti-fatigue, thermal grade and corrosion resistance. The alloy includes copper silver alloy, copper zinc alloy, copper tin alloy, copper nickel alloy.	1、铜银合金: 高抗拉强度、良好的抗弯性能、高电导率 ($\geq 93\%$ IACS)、优良的可焊性、优良的音频特性。 2、铜锌合金: 良好机械性能和耐腐蚀性能, 低电导率和优良抗弯性能。 3、铜锡合金: 非常好的机械和化学特性、极高的耐腐蚀性和良好的可焊性。 4、铜镍合金: 具有高电阻率、高抗张强度以及良好的抗弯性能。 1. Copper Silver Alloy: high tensile strength, good bending strength, high conductivity ($\geq 93\%$ IACS), excellent solderability and audio property.. 2. Copper Zinc Alloy: good mechanical property, corrosion resistance, low conductivity, excellent bending strength. 3. Copper Tin alloy: excellent mechanical and chemical property, extra-high corrosion resistance, good solderability. 4. Copper Nickel Alloy: high conductivity, high tensile strength, high bending strength.	1、铜银合金: 主要用于高档喇叭音圈、高档音响连接线。银含量: 0.1%~10%。 2、铜锌合金: 喷油器、电火花腐蚀、装饰/织物、加热应用等。锌含量: 10%~30%。 3、铜锡合金: 发热元件等电工应用锡含量: 0.15%~6%。 4、铜镍合金: 加热应用、电阻丝等。含量: 2%~23%。 1. Copper Silver Alloy: High-end speaker coil, audio connection wire application. Silver content: 0.1%~10%. 2. Copper Zinc Alloy: gas nozzle, electro discharge machine, heating device. Zinc content: 10%~30%. 3. Copper Tin Alloy: heating components application. Tin content: 0.15%~6%. 4. Copper Nickel Alloy: heating components, resistance wire. Nickel content: 2%~23%.

铜合金漆包线命名 Designation of Enameled Copper Alloy Wire

KHT 2 KS — A H② (R) 0.050mm

① ② ③ ④ ⑤ ⑥ ⑦

- ① 表示导体为高张力材料 High tension conductor
- ② 表示漆膜厚度 Thickness of insulation
- ③ 表示精微漆包线的产品标识 KINVE enameled wire
- ④ 表示绝缘层耐热等级 Thermal grade
- ⑤ 表示自粘层材料 Bonding layer resin
- ⑥ 表示颜色, 如果是自然色则缺省 Color code (blank for natural)
- ⑦ 表示导体直径 Conductor diameter

不同导体材料合金线特性 Properties of various alloy wires

性能 Property	铜 Copper	铜银合金 Copper Silver Alloy	铜锡合金 Copper Tin Alloy	铜锌合金 Copper Zinc Alloy	铜镍合金 Copper Nickel Alloy
密度 (g/cm ³) Density	8.9	8.9	8.8~8.9	8.3~8.7	8.9
电导率 (IACS/%) Conductivity	100	88~97	78~93	27~44	6~34
抗拉强度 (MPa) Tensile Strength	220~270	300~450	330~470	390~540	370~550
电阻温度系数 (IE-6/K) Resistance Temp. Coefficient	3900~4000	3100~3600	3200~3500	1300~1500	200~150

铜包铝漆包线 Enameled CCA Wire

名称 Description	定义 Definition	特点 Feature	应用 Application
铜包铝漆包线 Enameled CCA Wire	铜包铝是导体由铝的外层包覆纯铜制成的漆包线。 An enameled wire made of aluminum conductor with copper cladding.	重量轻，同样长度的铜包铝重量约为纯铜的一半；比铝线更具有可焊性；良好的延展性和抗弯折能力。 Light in weight, the same length of CCA wire is only half the weight of copper wire; Solderability; good ductility and bending strength.	广泛应用于音圈微型扬声器、受话器、蜂鸣器音圈、喇叭音圈、高保真音响线圈等。 Micro voice coil speakers, microphones, buzzers, hi-fi stereos

铜包铝漆包线命名 Designation of Enameled CCA Wire

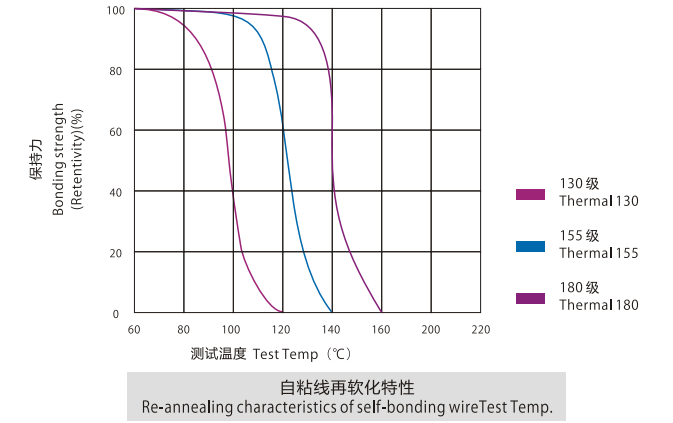
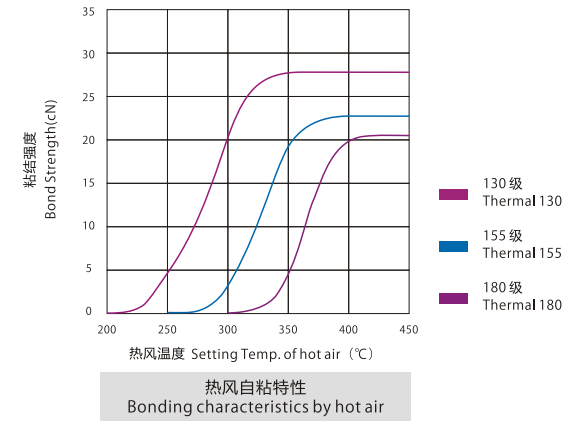
HCCA 2 KS - A H② ④ ⑤ ⑥ ⑦ 0.050mm

① ② ③ ④ ⑤ ⑥ ⑦

- ① 表示导体为高张力铜包铝材料 High tension CCA conductor
- ② 表示漆膜厚度 Thickness of insulation
- ③ 表示精微公司产品标识 KINVE enameled wire
- ④ 表示绝缘层耐热等级 Thermal grade of insulation layer
- ⑤ 表示自粘层材料 Bonding layer resin
- ⑥ 表示颜色 Color code (blank for natural)
- ⑦ 表示漆包线规格 Conductor diameter

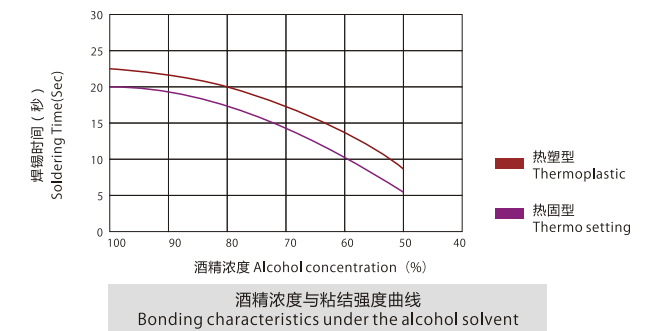
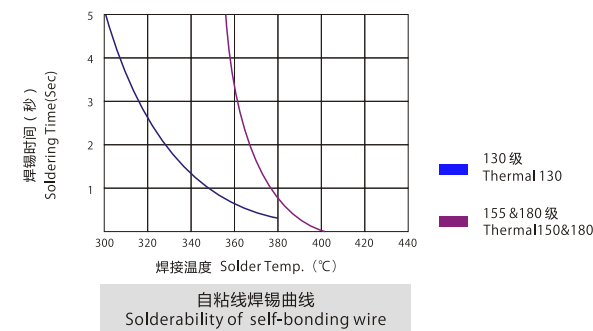
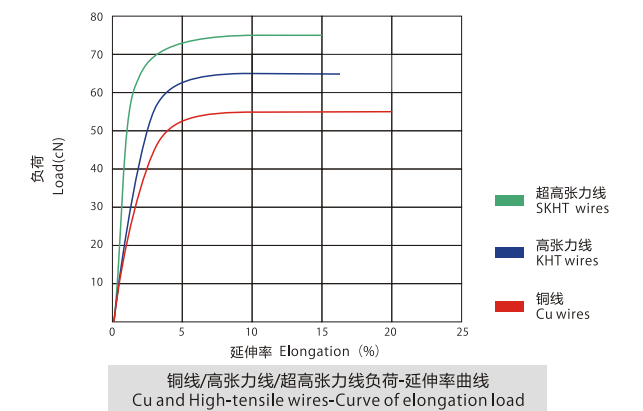
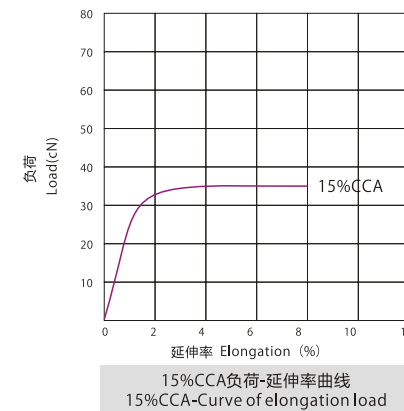
性能 Property	铜包铝 CCA	
	铜线 Copper	铜包铝 CCA
标识 Designation	-	HCCA KCCA
制作范围 (mm) Production Range	0.01~0.15	0.025~0.080 0.030~0.080
比重 (g/cm ³) Density	8.89	3.63 3.62
导电率 (%) (IACS) Conductivity	100	67 63
伸长率 (%) Elongation	17~24	4~12 4~12
抗张强度 (N/mm ²) Tensile Strength	255	176 260

粘结特性 Bonding Characteristics



* 以上测试是以0.050自粘线为测定标的。
* 使用时应考虑实际的生产加工条件。
* Above testing data are get from the self-bonding wire of 0.050.
* Working environment shall be considered in the process of production.

机械化学特性 Mechanochemical Characteristics



* 以上测试数据为自粘线0.050规格所得。
* 实际生产应考虑工作环境影响。
* Above testing data are get from the self-bonding wire of 0.050.
* Working environment shall be considered in the process of production.

产品参数 Product Parameters

纯铜微细自粘漆包线 Fine Self-bonding Enameled Copper Wire

标称直径 (mm) Nominal conductor diameter	导体公差 (mm) Tolerance	电阻/ Ω /(m)20°C DC Resistance	最小 伸长率 (%) Min. Elongation	2级线最 大外径 (mm) Class 2 Max. Overall	最小漆膜/(mm) Min. Thickness of Insulation		最小 粘接力 (g) Min. Bonding Strength	3级线最 大外径 (mm) Class 3 Max. Overall	最小漆膜/(mm) Min. Thickness of Insulation		最小 粘接力 (g) Min. Bonding Strength
					绝缘层 Insulation Layer	自粘层 Self-bonding Layer			绝缘层 Insulation Layer	自粘层 Self-bonding Layer	
0.0120	按电阻管理 Controlled by DC resistance value	128.85~179.96	3	0.016	0.001	0.001	1	0.014	0.001	0.0005	0.5
0.0150	按电阻管理 Controlled by DC resistance value	85.06~111.10	5	0.025	0.001	0.001	1	0.020	0.001	0.0005	0.5
0.0200	按电阻管理 Controlled by DC resistance value	53.8~57.4	6	0.032	0.001	0.001	3	0.025	0.001	0.0005	1
0.025	0.025 \pm 0.001	34.2~36.8	10	0.037	0.002	0.002	5	0.032	0.002	0.0010	2
0.030	0.030 \pm 0.001	22.8~26.2	12	0.043	0.002	0.002	5	0.040	0.002	0.0010	2
0.035	0.035 \pm 0.001	16.9~19.0	12	0.048	0.002	0.002	5	0.045	0.002	0.0010	3
0.040	0.040 \pm 0.001	13.0~14.5	14	0.055	0.002	0.002	5	0.052	0.002	0.0010	3
0.045	0.045 \pm 0.001	10.3~11.4	14	0.060	0.002	0.002	8	0.057	0.002	0.0010	3
0.050	0.050 \pm 0.002	8.11~9.53	16	0.067	0.003	0.003	8	0.064	0.003	0.0015	5
0.055	0.055 \pm 0.002	6.75~7.83	16	0.073	0.003	0.003	8	0.069	0.003	0.0015	5
0.060	0.060 \pm 0.002	5.71~6.53	17	0.078	0.003	0.003	8	0.075	0.003	0.0015	5
0.065	0.065 \pm 0.002	4.89~5.54	17	0.084	0.003	0.003	8	0.08	0.003	0.0015	5
0.070	0.070 \pm 0.002	4.23~4.75	18	0.090	0.003	0.003	8	0.085	0.003	0.0015	5
0.075	0.075 \pm 0.002	3.70~4.13	18	0.096	0.003	0.003	10	0.09	0.003	0.0015	8
0.080	0.080 \pm 0.002	3.26~3.61	20	0.101	0.003	0.003	10	0.097	0.003	0.0020	8

产品参数 Product Parameters

纯铜自粘漆包线 Self-bonding Enameled Copper Wire

标称直径 (mm) Nominal conductor diameter	导体公差 (mm) Tolerance	电阻/ Ω /m20°C DC Resistance	最小 伸长率 (%) Min. Elongation	最小 粘接力 (N) Min. Bonding Strength	2级线最 大外径 (mm) Class 2 Max. Overall	最小漆膜/(mm) Min. Thickness of Insulation		3级线最 大外径 (mm) Class 3 Max. Overall	最小漆膜/(mm) Min. Thickness of Insulation	
						绝缘层 Insulation Layer	自粘层 Self-bonding Layer		绝缘层 Insulation Layer	自粘层 Self-bonding Layer
0.06	\pm 0.006	5.71~6.53	15	-	-	-	-	0.096	0.004	0.006
0.07	\pm 0.006	4.23~4.75	15	-	-	-	-	0.106	0.004	0.006
0.08	\pm 0.006	3.26~3.61	15	-	-	-	-	0.118	0.005	0.007
0.090	\pm 0.006	2.688 \pm 7%	15	0.05	0.113	0.003	0.005	0.107	0.002	0.003
0.100	\pm 0.008	2.177 \pm 7%	16	0.05	0.125	0.003	0.005	0.118	0.002	0.003
0.110	\pm 0.008	1.799 \pm 7%	17	0.05	0.135	0.003	0.005	0.128	0.002	0.003
0.120	\pm 0.008	1.512 \pm 7%	17	0.05	0.147	0.004	0.006	0.139	0.003	0.004
0.130	\pm 0.008	1.288 \pm 7%	17	0.05	0.157	0.004	0.006	0.149	0.003	0.004
0.140	\pm 0.008	1.111 \pm 7%	18	0.05	0.167	0.004	0.006	0.159	0.003	0.004
0.150	\pm 0.008	0.968 \pm 7%	19	0.05	0.177	0.004	0.006	0.169	0.003	0.004
0.160	\pm 0.008	0.851 \pm 7%	19	0.05	0.189	0.005	0.007	0.181	0.003	0.005
0.170	\pm 0.008	0.753 \pm 7%	20	0.15	0.199	0.005	0.007	0.191	0.003	0.005
0.180	\pm 0.008	0.672 \pm 7%	20	0.15	0.211	0.005	0.008	0.202	0.003	0.005
0.190	\pm 0.008	0.603 \pm 7%	21	0.15	0.221	0.005	0.008	0.212	0.003	0.005
0.200	\pm 0.008	0.544 \pm 7%	21	0.15	0.231	0.005	0.008	0.222	0.003	0.005
0.210	\pm 0.008	0.494 \pm 7%	21	0.25	0.241	0.005	0.008	0.232	0.003	0.005
0.220	\pm 0.008	0.450 \pm 7%	21	0.25	0.252	0.005	0.008	0.243	0.003	0.005
0.230	\pm 0.008	0.412 \pm 7%	22	0.25	0.264	0.006	0.009	0.255	0.004	0.006
0.240	\pm 0.008	0.378 \pm 6%	22	0.25	0.274	0.006	0.009	0.265	0.004	0.006
0.250	\pm 0.008	0.348 \pm 6%	22	0.25	0.284	0.006	0.009	0.275	0.004	0.006
0.260	\pm 0.010	0.322 \pm 6%	22	0.25	0.294	0.006	0.009	0.285	0.004	0.006
0.270	\pm 0.010	0.299 \pm 6%	22	0.25	0.304	0.006	0.009	0.295	0.004	0.006
0.280	\pm 0.010	0.278 \pm 6%	22	0.25	0.314	0.006	0.009	0.305	0.004	0.006
0.290	\pm 0.010	0.259 \pm 6%	23	0.25	0.324	0.006	0.009	0.315	0.004	0.006
0.300	\pm 0.010	0.242 \pm 6%	23	0.25	0.337	0.007	0.010	0.327	0.005	0.007
0.320	\pm 0.010	0.213 \pm 6%	23	0.25	0.357	0.007	0.010	0.347	0.005	0.007
0.350	\pm 0.010	0.178 \pm 6%	23	0.35	0.387	0.007	0.010	0.377	0.005	0.007
0.370	\pm 0.010	0.159 \pm 6%	24	0.35	0.407	0.007	0.010	0.397	0.005	0.007
0.400	\pm 0.010	0.136 \pm 6%	24	0.35	0.439	0.007	0.011	0.429	0.005	0.007
0.450	\pm 0.010	0.108 \pm 6%	25	0.75	0.49	0.007	0.011	0.479	0.005	0.007
0.500	\pm 0.010	0.087 \pm 6%	25	0.75	0.542	0.008	0.012	0.531	0.005	0.008
0.600	\pm 0.010	0.061 \pm 6%	25	0.75	0.642	0.008	0.012	0.631	0.005	0.008

产品参数 Product Parameters

铜包铝 (CCA) 微细自粘漆包线 Fine Self-bonding Enameled CCA Wire

标称直径 (mm) Nominal conductor diameter	导体公差 (mm) Tolerance	电阻/ Ω /m20°C DC Resistance		最小伸长率/% Min. Elongation		2级线最 大外径 (mm) Class 2 Max. Overall	最小漆膜/(mm) Min. Thickness of Insulation		最小 粘接力 (g) Min. Bonding Strength	3级线最 大外径 (mm) Class 3 Max. Overall	最小漆膜/(mm) Min. Thickness of Insulation		最小 粘接力 (g) Min. Bonding Strength
		HCCA	HCCA	HCCA	HCCA		绝缘层 Insulation Layer	自粘层 Self-bonding Layer			绝缘层 Insulation Layer	自粘层 Self-bonding Layer	
0.025	0.025±0.001	52.42±5%	56.18±5%	3	3	0.037	0.002	0.002	5	0.032	0.002	0.001	2
0.030	0.030±0.001	36.40±7%	39.03±7%	4	4	0.043	0.002	0.002	5	0.04	0.002	0.001	2
0.035	0.035±0.001	26.75±7%	28.67±7%	5	5	0.048	0.002	0.002	5	0.045	0.002	0.001	3
0.040	0.040±0.001	20.48±7%	21.95±7%	6	6	0.055	0.002	0.002	5	0.052	0.002	0.001	3
0.045	0.045±0.001	16.18±7%	17.34±7%	7	7	0.060	0.002	0.002	8	0.057	0.002	0.001	3
0.050	0.050±0.002	13.11±7%	14.05±7%	5	8	0.067	0.003	0.003	8	0.064	0.003	0.0015	5
0.055	0.055±0.002	10.83±7%	11.61±7%	8	8	0.073	0.003	0.003	8	0.069	0.003	0.0015	5
0.060	0.060±0.002	9.10±7%	9.76±7%	9	9	0.078	0.003	0.003	8	0.075	0.003	0.0015	5
0.065	0.065±0.002	7.75±7%	8.25±7%	11	11	0.084	0.003	0.003	8	0.08	0.003	0.0015	5
0.070	0.070±0.002	6.69±7%	7.11±7%	12	12	0.090	0.003	0.003	8	0.085	0.003	0.0015	5
0.075	0.075±0.002	5.82±7%	6.19±7%	12	12	0.096	0.003	0.003	10	0.09	0.003	0.0015	8
0.080	0.080±0.002	5.12±7%	5.36±7%	14	14	0.101	0.003	0.003	10	0.097	0.003	0.002	8
0.090	0.090±0.002	/	4.11±7%	14	14	0.112	0.004	0.004	12	0.108	0.003	0.002	10
0.100	0.100±0.002	/	3.33±7%	14	14	0.125	0.004	0.004	12	0.118	0.003	0.002	10
0.150	0.150±0.002	/	1.14±7%	14	14	0.172	0.004	0.004	12	0.168	0.003	0.003	10
0.200	0.200±0.002	/	0.64±7%	14	14	0.225	0.004	0.004	13	0.218	0.003	0.003	11
0.250	0.250±0.002	/	0.41±7%	15	15	0.275	0.004	0.004	13	0.268	0.003	0.003	11
0.300	0.300±0.002	/	0.28±7%	15	15	0.325	0.004	0.004	14	0.315	0.003	0.003	11
0.350	0.350±0.002	/	0.21±7%	15	15	0.375	0.004	0.004	14	0.365	0.003	0.003	11
0.400	0.400±0.002	/	0.16±7%	15	15	0.425	0.004	0.004	15	0.415	0.003	0.003	12
0.450	0.450±0.002	/	0.126±7%	15	15	0.475	0.004	0.004	15	0.465	0.003	0.003	12
0.500	0.500±0.002	/	0.102±7%	16	16	0.525	0.004	0.004	16	0.515	0.003	0.003	12
0.550	0.550±0.002	/	0.085±7%	16	16	0.575	0.004	0.004	16	0.565	0.003	0.003	12
0.600	0.600±0.002	/	0.071±7%	16	16	0.625	0.004	0.004	20	0.615	0.003	0.003	12

产品参数 Product Parameters

高张力/超高张力(KHT/SKHT)漆包线 Enameled High Tension / Super-high Tension Wire

标称直径 (mm) Nominal conductor diameter	导体公差 (mm) Tolerance	电阻/ Ω /(m)20°C DC Resistance		最小伸长率/% Min. Elongation		2级线最 大外径 (mm) Class 2 Max. Overall	最小漆膜/(mm) Min. Thickness of Insulation		最小 粘接力 (g) Min. Bonding Strength	3级线最 大外径 (mm) Class 3 Max. Overall	最小漆膜/(mm) Min. Thickness of Insulation		最小 粘接力 (g) Min. Bonding Strength
		KHT	SKHT	KHT	SKHT		绝缘层 Insulation Layer	自粘层 Self-bonding Layer			绝缘层 Insulation Layer	自粘层 Self-bonding Layer	
0.015	按电阻管理 Controlled by DC resistance value	96.78±4%	111.01±3%	2	3	0.025	0.001	0.001	1.5	0.018	0.001	0.0005	0.5
0.018	按电阻管理 Controlled by DC resistance value	67.20±4%	77.09±4%	3	4	0.029	0.001	0.001	1.5	0.022	0.001	0.0005	0.5
0.020	按电阻管理 Controlled by DC resistance value	55.60±4%	60.31±5%	4	5	0.032	0.001	0.001	3	0.025	0.001	0.0005	1
0.025	按电阻管理 Controlled by DC resistance value	35.50±5%	36.80±5%	6	7	0.037	0.002	0.002	5	0.032	0.002	0.001	2
0.030	0.030±0.001	24.39±5%	26.80±7%	9	10	0.043	0.002	0.002	5	0.040	0.002	0.001	2
0.035	0.035±0.001	17.92±5%	19.69±7%	10	11	0.048	0.002	0.002	5	0.045	0.002	0.001	3
0.040	0.040±0.001	13.72±5%	15.08±7%	12	12	0.055	0.002	0.002	5	0.052	0.002	0.001	3
0.045	0.045±0.001	10.84±5%	11.91±7%	13	13	0.060	0.002	0.002	8	0.057	0.002	0.001	3
0.050	0.050±0.002	8.78±5%	9.65±7%	15	15	0.067	0.003	0.003	8	0.064	0.003	0.0015	5
0.055	0.055±0.002	7.26±5%	7.79±7%	16	16	0.073	0.003	0.003	8	0.069	0.003	0.0015	5
0.060	0.060±0.002	6.10±5%	6.70±7%	17	17	0.078	0.003	0.003	8	0.075	0.003	0.0015	5
0.065	0.065±0.002	5.20±5%	5.71±7%	18	18	0.084	0.003	0.003	8	0.080	0.003	0.0015	5
0.070	0.070±0.002	4.48±5%	4.92±7%	18	18	0.090	0.003	0.003	8	0.085	0.003	0.0015	5
0.075	0.075±0.002	3.90±5%	4.29±7%	18	18	0.096	0.003	0.003	10	0.090	0.003	0.0015	8
0.080	0.080±0.002	3.43±5%	3.77±7%	18	18	0.101	0.003	0.003	10	0.097	0.003	0.002	8
0.090	0.090±0.002	2.71±5%	2.98±7%	20	20	0.112	0.004	0.004	12	0.107	0.003	0.002	8
0.100	0.10±0.002	2.20±5%	2.42±7%	20	20	0.125	0.004	0.004	12	0.117	0.003	0.002	8
0.110	0.11±0.002	1.82±5%	1.99±7%	20	20	0.135	0.004	0.004	12	0.127	0.003	0.003	9
0.120	0.12±0.002	1.53±5%	1.68±7%	20	20	0.147	0.004	0.004	12	0.138	0.003	0.003	9
0.130	0.13±0.002	1.30±5%	1.43±7%	20	20	0.158	0.004	0.004	12	0.148	0.003	0.003	9
0.140	0.14±0.002	1.12±5%	1.23±7%	20	20	0.170	0.004	0.004	12	0.160	0.003	0.003	9
0.150	0.15±0.002	0.976±5%	1.07±7%	20	20	0.182	0.004	0.004	12	0.170	0.003	0.003	9