

佳腾电业

Wellascent Electronic

追求**最佳** **腾飞**梦想

Do The Best Win The Dream

佳腾电业(赣州)股份有限公司

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中国精密小型漆包扁线的创始者

The Founder of High-precision
and Small Enamelled Flat Wire in China

标志释义

LOGO INTERPRETATION



佳腾品牌标志以国际化的英文标形象呈现，整体简约大气，77°倾斜的设计兼具腾飞速度感，呼应佳腾品牌名之腾飞之势。细节处精心的圆角处理，彰显了企业追求极致与匠心品质的精神。标志巧妙地融入行业属性与核心文化理念，富含3层释义：

(1) 中国精密小型漆包扁铜线的创始者：标志字母 W 造型形似企业核心产品扁铜线的弯曲绕转形态，旨在彰显佳腾是中国精密小型漆包扁铜线的创始者身份，未来将发挥佳腾行业资源优势，做大做强，做深做精中国漆包扁线产业赛道。

(2) 聚焦朝阳产业、共赢美好未来：W 字母造型巧妙融入了象征手托朝阳的形态，寓意佳腾企业聚焦朝阳产业，未来前景无限光明。同时企业未来布局新能源、可持续发展领域，与风力发电、高铁、新能源汽车等朝阳行业保持紧密合作，共赢美好未来。

Wellascent brand logo is presented as an international English wordmark. Its overall design is simple and sophisticated. The 77° tilt conveys a sense of soaring speed, reflecting the momentum embedded in the Wellascent name. Elaborate rounded corners in the details demonstrate the company's pursuit of perfection and craftsmanship. The logo cleverly integrates industry attributes and core cultural concepts, with three layers of meaning:

(1) The Founder of High-precision and Small Enamelled Flat Wire in China : The letter "W" resembles the bending and winding form of the company's core product, flat copper wire, highlighting Wellascent's identity as the pioneer in this field in China. Going forward, Wellascent will leverage its industry resources to expand, strengthen, and deepen its expertise in the Chinese enameled flat wire industry.

(2) Focusing on Sunrise Industries for a Shared Bright Future: The "W" design ingeniously incorporates a motif of hands cradling the sun, symbolizing Wellascent's focus on sunrise industries and its boundless prospects. The company is committed to future layouts in new energy and sustainable development, maintaining close collaboration with sunrise sectors like wind power, high-speed rail, and new energy vehicles to achieve a better future together.

(3) 全球布局、合作共赢：W 字母也形似握手的形态，中间的圆形形似地球。寓意佳腾发挥全球化产业链角色作用（在全球范围内拥有 2000 多家企业客户，其中 50 余家世界 500 强企业），让中国产品走向世界，与全球客户、股东、供应商、员工合作共赢、腾飞梦想。

标志由象征稳健睿智的高级灰与激情进取的朝阳橙为主，寓意佳腾坚持稳健经营，聚焦朝阳产业赛道，不断创新进取，自我奋进，追求最佳，腾飞梦想的美好愿景。

(3) Global Presence and Win-Win Cooperation: The letter "W" also resembles a handshake, with the circular element in the middle representing the globe. This signifies Wellascent's role in the global industrial chain (serving over 2,000 corporate clients worldwide, including more than 50 Fortune 500 companies), its mission to bring Chinese products to the world, and its commitment to win-win cooperation with global customers, shareholders, suppliers, and employees to realize shared aspirations.

The logo employs a color scheme of senior gray, symbolizing stability and wisdom, and sunrise orange, representing passion and progress. This embodies Wellascent's vision of steadfast operation, focus on sunrise industries, constant innovation and advancement, self-driven improvement, the pursuit of excellence, and the realization of its soaring dreams.

DO THE BEST
WIN THE DREAM

追求最佳 腾飞梦想

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WELLASCENT

关于佳腾 ABOUT WELLASCENT

佳腾电业创立于2006年,是全国首家集研发、生产与销售扁平电磁线于一体的国家高新技术企业、国家级专精特新“小巨人”企业。公司以江西赣州总部为根基,业务网络覆盖香港、深圳、上海等地,并已在美国达拉斯,泰国春武里建立制造中心,并在德国斯图加特设立营销网点,完成全球供应链的战略布局。

公司拥有上万种规格的扁线量产实力,更是全球唯一的全尺寸扁线供应商。佳腾不仅在国内微细及中型扁线市场雄踞榜首,更在部分细分领域斩获全球超60%的市场份额。

公司产品应用涵盖汽车、消费电子、工业制造及前沿科技等众多行业。在汽车领域,应用于驱动电机、OBC、车载电子、大灯及充电桩;在消费电子领域,服务于手机、平板、电脑、无线充电、耳机、摄像机等设备;在工业领域,进入光刻机、各类机器人等高端制造环节,还可应用于低空飞行、光伏、轨道交通、5G通讯、Ebike及家电等众多行业。

佳腾的客户基础遍及全球,服务超2000家企业,其中包括50多家世界500强公司。其市场影响力深度渗透各核心领域:在消费电子行业,全面覆盖全球三大产业集群,已携手华为、三星、台达、苹果等顶尖品牌;在新能源汽车领域,更跻身全球首批800V高压平台线材解决方案供应商之列,成为奥迪、路特斯、宝马等品牌的定点供应商。此外,公司于2025年荣膺ASML“全球供应商卓越奖”,进一步彰显其在高端工业应用领域的全球竞争力。

Wellascent, founded in 2006, is the first national high-tech enterprise and national-level specialized, refined, and innovative "Little Giant" Enterprise in China dedicated to the R&D, production, and sales of flat electromagnetic wires. With its headquarters based in Ganzhou, Jiangxi, Wellascent has established a robust sales network spanning Hong Kong, Shenzhen, and Shanghai, complemented by a global manufacturing footprint with centers in Dallas, USA; and Chonburi, Thailand, and set up a marketing office in Stuttgart, Germany forming a strategic global supply chain.

Wellascent has mass-production capabilities for over 10,000 specifications of flat wires, establishing it as the global leader with the most comprehensive product portfolio in the industry. Wellascent not only leads the domestic market in ultra-fine and medium-sized flat wires but has also captured over 60% of the global market share in certain niche segments.

The company's products are widely applied across various industries, including automotive, consumer electronics, industrial manufacturing, and cutting-edge technologies. In the automotive sector, they are used in drive motors, OBCs, vehicle electronics, headlights, and charging stations. In consumer electronics, they serve devices such as smartphones, tablets, computers, wireless chargers, earphones, and cameras. In the industrial field, they are integrated into high-end manufacturing processes, including lithography machines and various types of robots. Additionally, the products find applications in eVTOL, photovoltaics, rail transit, 5G communications, eBikes, and home appliances and many other industries.

Wellascent boasts a global customer base, serving over 2,000 enterprises, including more than 50 Fortune Global 500 companies. Its market influence deeply penetrates core sectors: in the consumer electronics industry, it comprehensively covers the world's three major industrial clusters and collaborates with top brands such as Huawei, Samsung, Delta, and Apple. In the new energy vehicle sector, it has become one of the world's first suppliers of 800V high-voltage platform wire solutions, serving as a nominated supplier for brands like Audi, Lotus, and BMW. Furthermore, in 2025, the company was honored with the ASML "Global Supplier Excellence Award," further demonstrating its global competitiveness in high-end industrial applications.

企业理念

CORPORATE PHILOSOPHY

心系地球 DEDICATED TO A SUSTAINABLE EARTH

成就未来 BUILDING A BETTER FUTURE



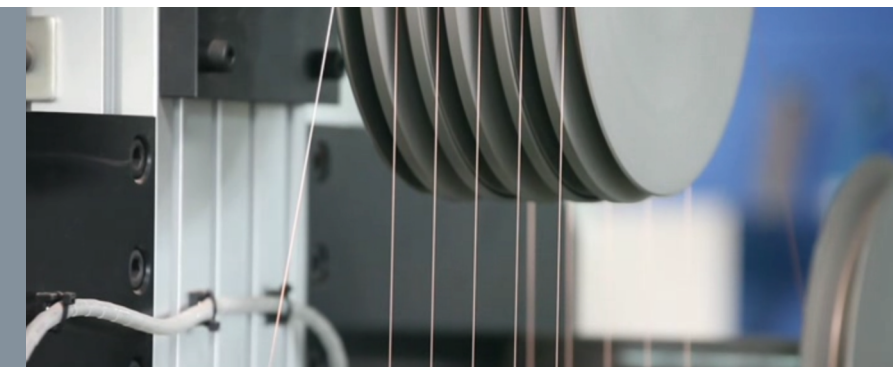
佳腾电业(赣州)股份有限公司制造基地

打造更健康、更持久的发展企业,成为全球扁平漆包线市场的核心力量

Wellascent Electronic (Ganzhou) Co., Ltd.

Building a healthier and more sustainable enterprise, to become a core force in the global flat enamelled wire market.

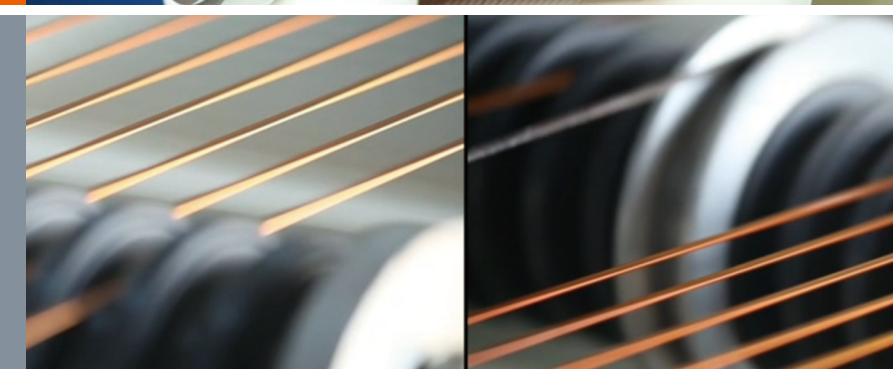
PRECISION
精密



DETAIL-
ORIENTED
精细



EXQUISITE
精致



精密是一种内涵
精细是一种态度
精致是一种责任

PRECISION, OUR SUBSTANCE
DETAIL-ORIENTED, OUR ATTITUDE
EXCELLENCE, OUR COMMITMENT

发展历程 MILESTONES

01
2006

佳腾电业创立
Wellascent was founded

02
2007

获得IOS 9001: 2000
管理体系认证、
美国UL认证

Obtained ISO 9001: 2000
management system
certification and U.S. UL
certification

03
2009

研发并量产直焊性扁平
漆包线、研发并量产自粘
性扁平漆包线

Developed and began
mass production of
solderable flat enameled
wire and self-adhesive
flat enameled wire

04
2010

获得ISO 9001: 2008管理
体系认证
Obtained ISO 9001: 2008
management system
certification

05
2011

赣州一厂第一期厂房
落成
Ganzhou Plant 1, Phase
1 was completed

06
2012

研发并量产超微细扁平
漆包线
Developed and began
mass production of
ultra-fine flat enameled
wire

07
2013

启动全球化市场发展战略
Launched global market
development strategy

08
2015

赣州一厂第二期厂房落成
Ganzhou Plant 1, Phase
2 was completed

09
2016

研发并量产中大规格扁平
漆包线, 新增12条生产线
实现产能100%增长
Developed and began
mass production of
medium and large-size
flat enameled wires;
added 12 production
lines, achieving 100%
capacity growth

10
2017

获得ISO/TS 16949: 2009
体系认证, 开始布局车用
扁线市场, 研发并量产耐
电晕扁平漆包线

Obtained ISO/TS 16949:
2009 certification;
entered the automotive
flat wire market;
developed and
mass-production of
corona-resistant flat
enameled wire

11
2018

研发并量产*PIW/240
扁平漆包线和超微细合
金线, 获得IATF16949体
系认证, 与威格斯公司
达成战略合作

Developed and mass
production of *PIW/240°C
flat enameled wire and
ultra-fine alloy wire;
obtained IATF16949
certification; and
established a strategic
partnership with
Victrex

12
2019

研发并量产PEEK扁线,
新增22条生产线实现产
能50%增长
Developed and mass
production of PEEK flat
wire, added 22
production lines,
increasing production
capacity by 50%

13
2020

获得ISO14001: 2015环
境体系认证
Obtained ISO14001:
2015 environmental
management system
certification

14
2021

赣州二厂落成
Ganzhou Plant 2
completed

15
2022

成为国家专精特新小巨
人企业
Awarded the honor of
National Little Giant
Enterprise

16
2023

完成股改, 开启赣州三
厂建设
Completed shareholding
reform and launched
the construction of
Ganzhou Plant 3

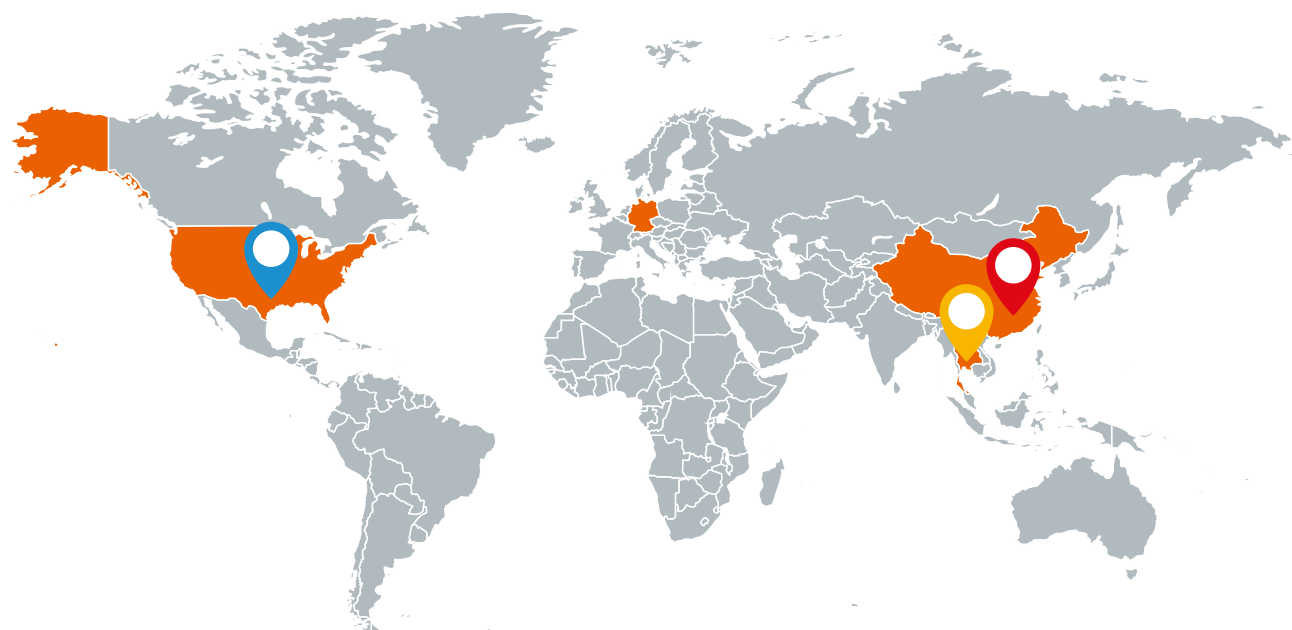
17
2024

开启北美生产基地建设,
设立以研发复合材料为
主导的全资控股子公司
(阿默泰)
Began construction of a
North American
production base;
established a
wholly-owned subsidiary,
AMT, focused on R&D of
composite materials

18
2025

开启泰国生产基地、设立
德国销售中心, 与英国威
格斯公司战略合作升级
为全球战略合作, 获颁
ASML 全球供应商卓越奖
Began construction of a
production base in
Thailand and a sales
center in Germany;
elevated the strategic
partnership with
Victrex (UK) to a global
level; received the ASML
Global Supplier
Excellence Award

全球布局 GLOBAL FOOTPRINT



总部 Headquarter

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E-mail: pm@wellascent.com

销售中心 Sales Center

上海 Shanghai

地址: 闵行区申长路1588弄1号楼平安财富中心501室

Add: Room 501, Ping'an Fortune Center, Building 1, Lane 1588 Shenchang Road, Minhang District

香港 Hongkong

地址: 香港荃湾美环街1-6号时贸中心1204-05室

Add: Hong Kong Office Address: Room 1204-05, Mega Trade Centre, 1-6 Mei Wan Street, Tsuen Wan, Hong Kong

Tel: 00852-24981018

德国斯图加特 Stuttgart, Germany



赣州一厂(2010)

Gan Zhou #1 Plant



赣州二厂(2019)

Gan Zhou #2 Plant



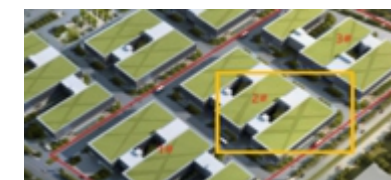
赣州三厂1期(2025)

Gan Zhou #3 Plant Phase1



佳腾子公司阿默泰 实验工厂(2024)

AMT UDT Plant,
Engineering Site



美国工厂 德州达拉斯

U.S. Plant, Dallas, Texas



东南亚工厂 泰国春武里府

Southeast Asia Plant,
Chonburi, Thailand



市场需求分析 MARKET ANALYSIS



ONLINE
INSPECTION
在线检测

PERFORMANCE
TESTING
性能测试

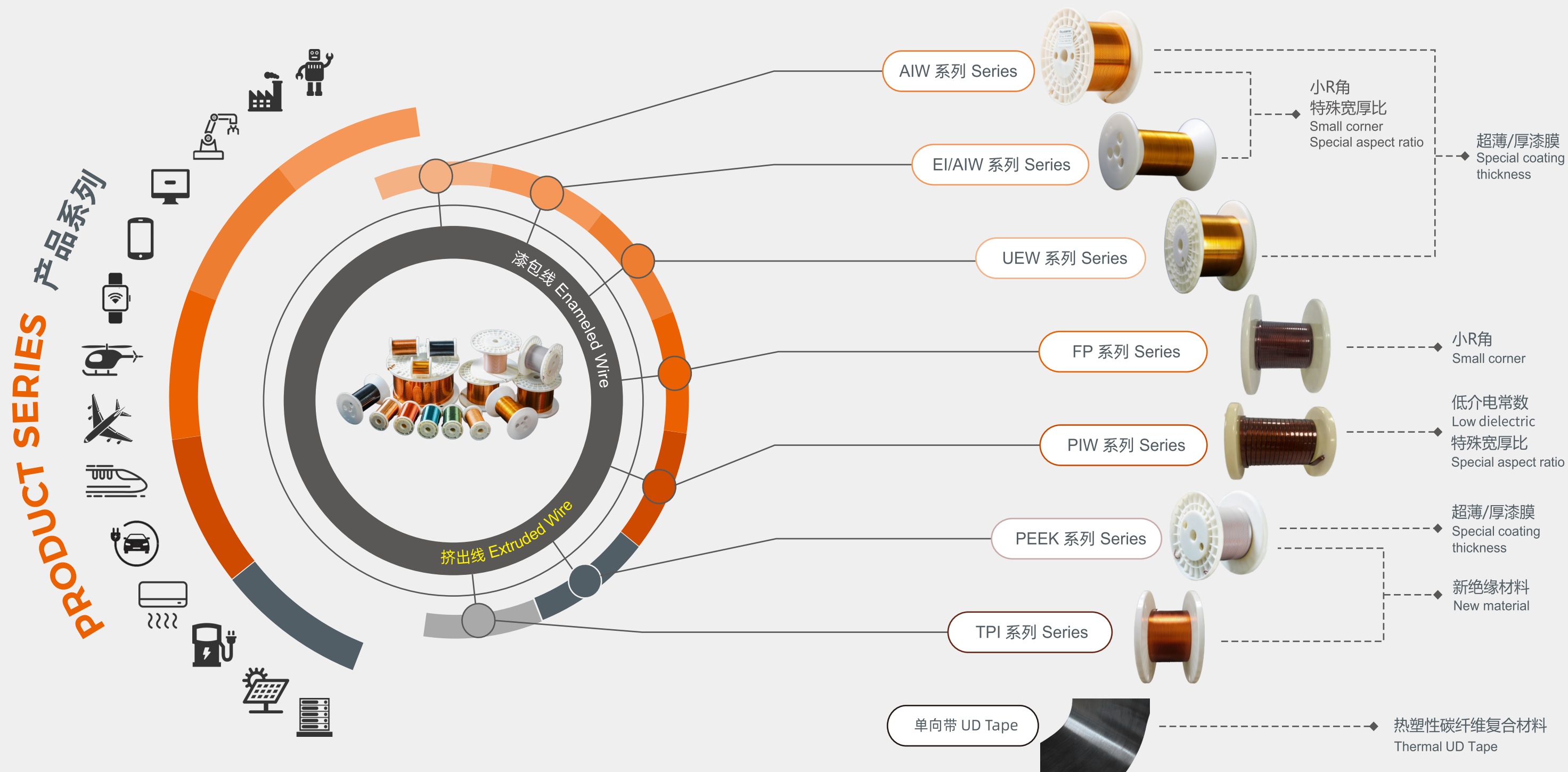
DURABILITY
TESTING
耐久测试



佳腾依托国际领先的生产线与顶尖检测体系，
通过全程严苛的质量管控，
精工智造每一件产品。

Based on internationally leading production lines and
a top-tier inspection system,
Wellascent crafts every product with precision through
continuous and rigorous quality control.

市场需求分析 MARKET ANALYSIS



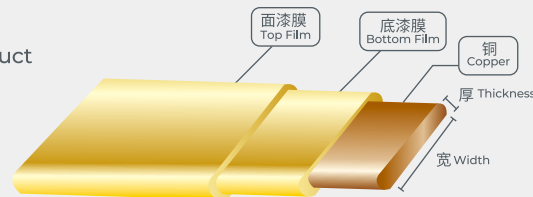
扁平漆包线相较于圆线的优势

THE BENEFITS OF FLAT ENAMELLED WIRE COMPARED TO ROUND WIRE

现今电子、电气、数码、汽车等产品在外型结构上都朝着“轻、薄、短、小”的方向发展，佳腾生产的精密扁平漆包铜线，以优良的品质和优异的性能，能够满足其中关键零部件的扁平化、轻量化、低功耗、高性能的要求。

Today, electronic, electrical, digital, and automotive products are increasingly designed to be "lighter, thinner, shorter, and smaller." Wellascent's precision flat enameled copper wires, with their superior quality and performance, meet the critical requirements for key components in these applications: flatter profiles, lighter weight, lower power consumption, and higher performance.

产品结构 Structures Of Product



定义 Definition

扁平漆包铜线是指形状为矩形的漆包铜线，由宽度值与厚度值组成。
Rectangular-shape copper wire. It contains width and thickness

规格描述为：导体厚度 (mm) * 导体宽度 (mm)，
Products Description: Conductor Thickness (mm) * Conductor Width (mm);

或导体宽度 (mm) * 导体厚度 (mm)。
or Conductor Width (mm) * Conductor Thickness (mm)

扁平漆包铜线的特性及优势 Features And Advantages Of Enamelled Flat Copper Wire

- 在相同的绕线空间内，扁平漆包铜线可拥有比圆漆包线更大的截面积，使线圈槽满率高，减小电阻，获得更大的电流，避免电子产品过热现象，更能适用于高电流负载之需求。

Within the same winding space, flat enameled copper wire offers a larger cross-sectional area than round wire. This gives coils a higher space factor (slot fill), which reduces resistance, allows for greater current capacity, and helps prevent electronic devices from overheating. Thus, it is better suited for high-current applications.

- 在相同的截面积下，扁平漆包铜线比圆漆包线有更大的表面积，使之大幅改善集肤效应，减小了高频电流的损耗，散热性能好，适用于高频传导环境。

For an equivalent cross-sectional area, flat enameled copper wire has a greater surface area than round wire. This significantly improves the skin effect, reduces high-frequency current losses, and enhances heat dissipation, making it ideal for high-frequency transmission environments.

- 扁平漆包线在承受大电流工作时具有震动小、噪音低、电磁效应好等优良特点。

When operating under high currents, coils wound with flat enameled copper wire exhibit advantages such as minimal vibration, low noise, and excellent electromagnetic performance.

- 相同条件下，扁平漆包线比圆漆包线的线圈占有空间更小，使生产体积更小、重量更轻的电子电机产品不再受线圈尺寸的限制。

Under identical conditions, coils made with flat wire occupy less space than those made with round wire. This removes the design constraints imposed by coil size, enabling the production of more compact and lightweight electronic and electromechanical products.

我们的优势 Advantages Of Wellascent Enamelled Flat Copper Wire

- 佳腾扁平漆包铜线，导体尺寸精密。

WellAscent flat enameled copper wire features highly precise conductor dimensions.

- 漆膜涂附密着、均匀，绝缘性能好，耐压可达1000V以上。卷绕性好，耐弯曲性强，伸长率可达30%以上。

The enamel insulation is coated uniformly and adhesively, offering excellent insulating properties with a withstand voltage of over 1000V. It also exhibits superior winding and flexural properties, with an elongation rate exceeding 30%.

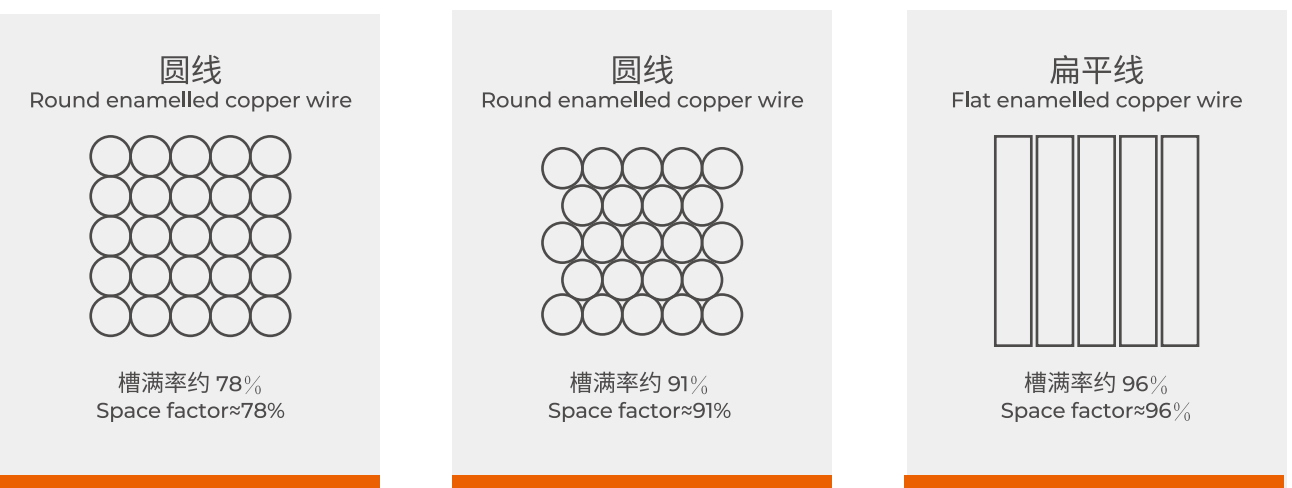
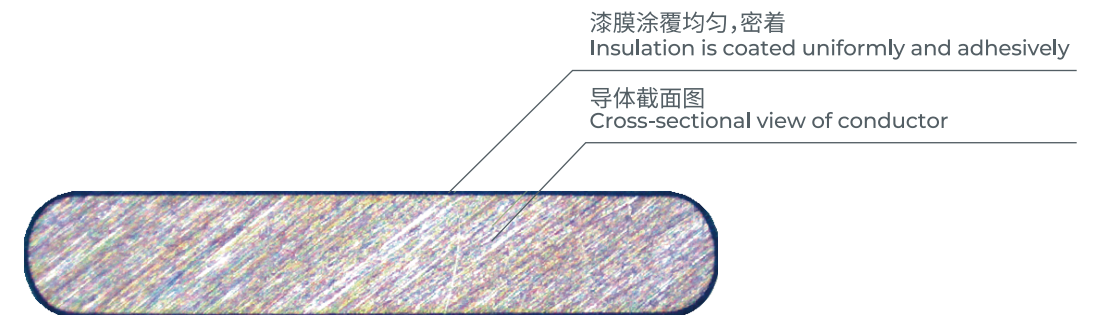
- 耐辐射、耐热性好，温度等级最高可达240级。

The wire possesses excellent radiation and heat resistance, with the highest thermal class rating reaching 240.

- 产品符合NEMA、IEC60317、JIS C3003、JIS C3216或客户指定规范。可生产自粘、直焊多品种多规格之产品，交货期短。

Our products comply with NEMA, IEC 60317, JIS C3003, JIS C3216, or customer-specified standards. We can produce a wide variety of specifications, including self-bonding and solderable types, with short lead times.

扁平漆包线截面图 Cross-sectional view of flat enameled copper wire



扁平漆包线系列总览

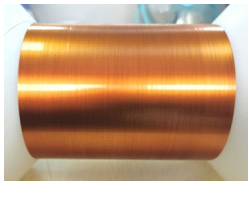
ENAMELLED FLAT WIRE SERIES OVERVIEW

AIW 系列 AIW series	EI/AIW 系列 EI/AIW series	UEW 系列 UEW series	FP 系列(耐电晕线) Corona Resistance series	PIW 系列 PIW series
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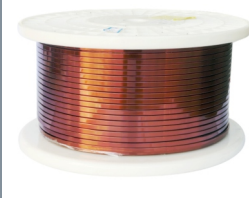
具体请见以下列表,"O"代表具备此项性能; "X" 代表不具备此项性能
"O"-available," X" Not Available

产品型号 Product Code	名 称 Name	耐热等级 Thermal Class	直焊性 Solderable	自粘性 Self Bonding	生产范围 Production range		
					宽度 W(mm)	厚度T(mm)	宽厚比W/T
SFT-AIW	聚酰胺酰亚胺漆包扁平线 Polyamide-imide enamelled rectangular copper wire	220 °C	X	X	0.15-18.00	0.015-5.00	1:30
SFT-EI/AIWJ	聚酯亚胺复合聚酰胺酰亚胺漆包扁平线 Polyester-imide overcoated with Polyamide-imide enamelled rectangular copper wire	220 °C	X	X	0.15-18.00	0.015-5.00	1:30
SFT-UEWH	直焊性聚氨酯漆包扁平线 Solderable polyurethane enamelled rectangular copper wire	180 °C	410 °C	X	0.15-18.00	0.015-5.00	1:30
SFT-SEIWR	直焊性聚酯亚胺漆包扁平线 Solderable polyester-imide enamelled rectangular copper wire	180 °C	450 °C	X	0.15-18.00	0.015-5.00	1:30
SFT-AIW/SB	自粘性聚酰胺酰亚胺漆包扁平线 Self-bonding polyamide-imide enamelled rectangular copper wire	220 °C	X	O	0.15-18.00	0.015-5.00	1:30
SFT-UEWH/SB	自粘直焊性聚氨酯漆包扁平线 Self-bonding solderable polyurethane enamelled rectangular cooper wire	180 °C	410 °C	O	0.15-18.00	0.015-5.00	1:30
SFT-SEIW/SB	自粘直焊性聚酯亚胺漆包扁平线 Self-bonding solderable polyester-imide enamelled rectangular cooper wire	180 °C	450 °C	O	0.15-18.00	0.015-5.00	1:30
FP-*/220	聚酰胺酰亚胺耐电晕漆包扁平线 Corona resistance Polyamide-imide enamelled rectangular copper wire	220°C	X	X	2.50-15.00	0.4-300	1:20
FP-*/240	聚酰亚胺耐电晕漆包扁平线 Corona resistance Polyimide enamelled rectangular copper wire	240°C	X	X	2.50-15.00	0.4-300	1:20
*PIW/240	聚酰亚胺漆包扁平线 Polyimide enameled rectangular copper wire	240°C	X	X	2.50-15.00	0.4-300	1:20

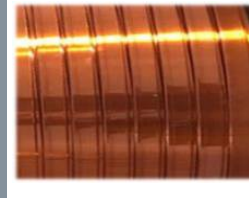
得益于多年的深厚积淀,佳腾已打造出覆盖上万种规格的产品矩阵
Wellascent offers a vast array of products with over ten thousand specifications.



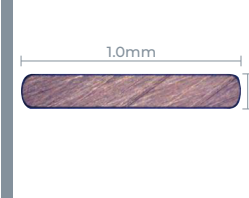
超微细
厚度范围:0.015-0.1mm
宽度范围:0.15-1.00mm
Ultra fine size range
Thickness: 0.015-0.1mm
Width: 0.15-1.00mm



常规线
厚度范围:0.10-1.00mm
宽度范围:1.00-6.00mm
Regular size range
Thickness: 0.10-1.00mm
Width: 1.00-6.00mm



大扁线
厚度范围:1.00-5.00mm
宽度范围:6.00-18.00mm
Large size range
Thickness: 1.00-5.00mm
Width: 6.00-18.00mm



特殊宽厚比
厚度范围≈1:1
宽厚比 > 1:25
Special specification
Width-thickness ratio ≈ 1:1
Width-thickness ratio > 1:25

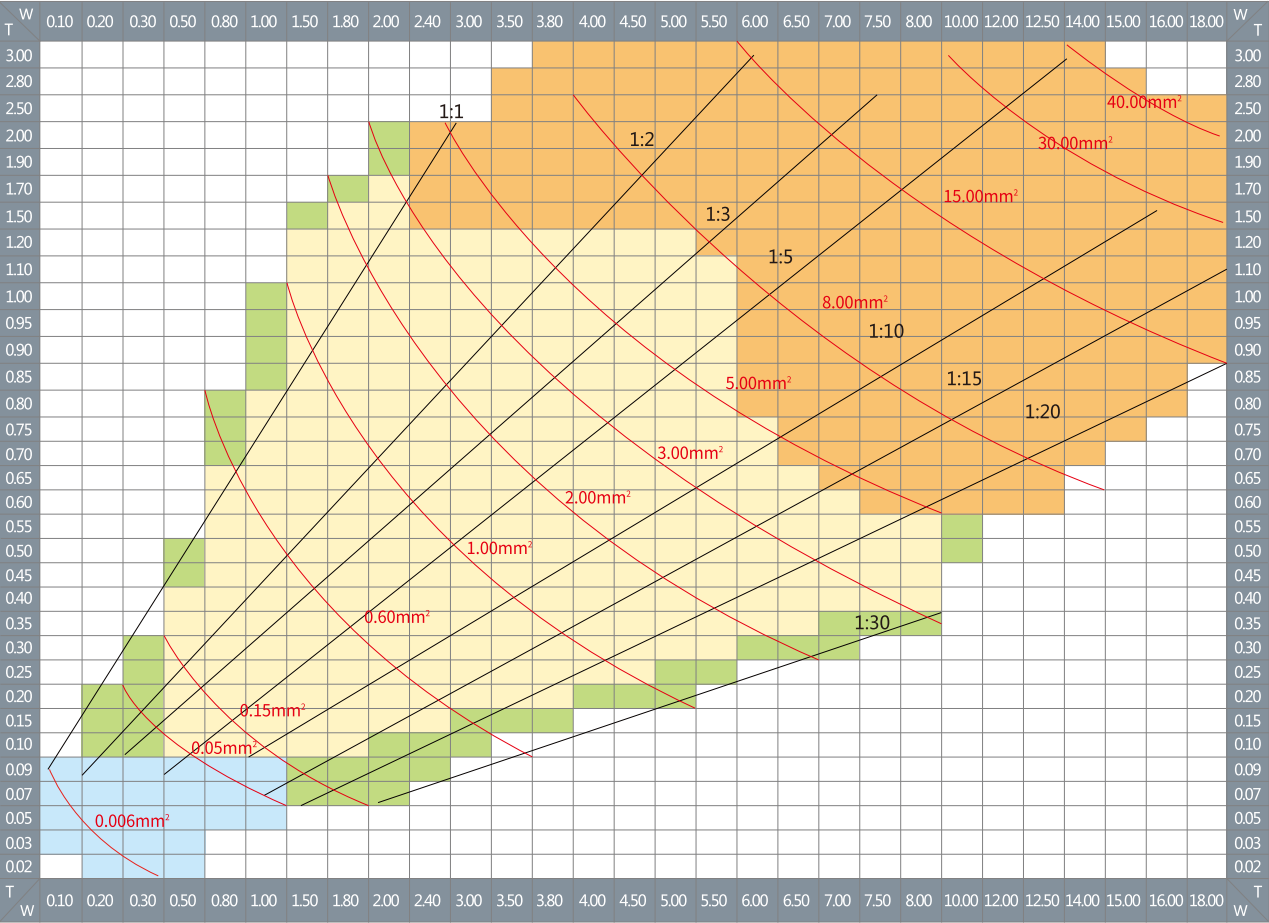
超微细扁平线规格范围
Ultra fine size range

中规格扁平线规格范围
Regular size range

大规格扁平线规格范围
Larger size range

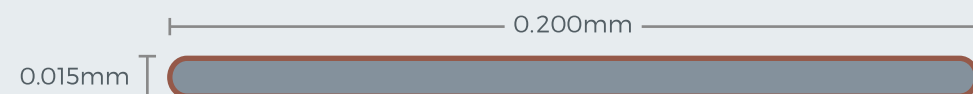
特殊类型规格范围
Special specification range

不可生产的范围
Not available



ULTRA-THIN ENAMELLED FLAT WIRE

- ▶ 导体的尺寸均匀,公差小
Conductor: Uniform dimensions with tight tolerance
- ▶ 绝缘层能均匀的覆盖导体
Insulation: Even coating coverage on the conductor
- ▶ 在保证性能的前提下,可实现0针孔需求
Zero pinholes :achieved without compromising electrical properties



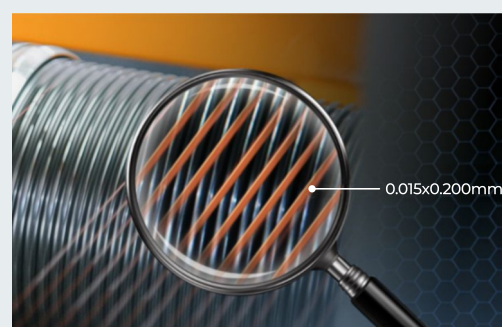
上图中的外层是绝缘层

The outside layer in the above picture is the insulation layer

导体尺寸: 0.015×0.200毫米
Conductor Size: 0.015 x 0.200mm

绝缘层厚度: 最小 0.003 毫米
Insulation Thickness: 0.003mm(min)

自粘层厚度: 最小 0.001 毫米
Self-bonding Layer Thickness: 0.001mm(min)



Product Model	规格 Size		导体尺寸(mm) Conductor Dimension				单边漆膜厚度(mm) Thickness of insulation layer		自粘漆膜厚度 Thickness of self-bonding layer	整体尺寸(mm) Overall Dimension				最大电阻 Maximum Resistance	最小击穿电压 Min Breakdown Voltage	最小伸长率 Min Elongation	最小拉伸强度 Min Bonding Strength
			厚度 Thickness		宽度 Width					厚度 Thickness		宽度 Width					
产品型号	厚度 Thickness	宽度 Width	中心值 Nominal	公差 Tolerance	中心值 Nominal	公差 Tolerance	厚度 Thickness	宽度 Width	(mm)	中心值 Nominal	公差 Tolerance	中心值 Nominal	公差 Tolerance	(Ω/km)	(kV)	(%)	(N/mm²)
SFT-AIW/SB	0.022	0.160	0.020	±0.003	0.160	±0.020	0.004+0.001	0.005+0.001	0.002+0.001	0.034	+0.005	0.174	±0.020	4593-5501	0.5	15	0.2
SFT-AIW/SB	0.024	0.275	0.024	+0.003	0.275	±0.020	0.004+0.001	0.005+0.001	0.002+0.001	0.036	+0.005	0.289	±0.020	2399-3049	0.5	15	0.2
SFT-AIW/SB	0.030	0.260	0.030	±0.004	0.260	+0.020	0.004+0.001	0.005+0.001	0.002+0.001	0.042	+0.005	0.274	±0.020	1859-2829	0.5	15	0.2
SFT-AIW/SB	0.045	0.210	0.045	±0.004	0.210	±0.020	0.004+0.001	0.005+0.001	0.002+0.001	0.057	±0.005	0.224	±0.020	1603-2321	0.5	15	0.2
SFT-AIW/SB	0.055	0.180	0.055	±0.004	0.180	±0.020	0.008+0.002	0.008+0.002	0.002+0.001	0.075	+0.005	0.200	±0.020	1450-1900	0.7	15	0.2
SFT-AIW/SB	0.060	0.240	0.060	+0.005	0.240	±0.020	0.008+0.002	0.008+0.002	0.002+0.001	0.080	+0.005	0.260	+0.030	1094-1480	0.7	15	0.2
SFT-AIW/SB	0.070	0.200	0.070	+0.005	0.200	+0.020	0.008+0.002	0.008+0.002	0.002+0.001	0.090	+0.005	0.220	±0.020	1141-1575	0.7	15	0.2
SFT-AIW/SB	0.100	0.200	0.100	+0.005	0.200	+0.020	0.008+0.002	0.008+0.002	0.002+0.001	0.112	+0.005	0.214	+0.020	880-1060	0.5	15	0.2

佳腾超微细扁平线可生产规格范围（可定制）

Wellascent Ultra-thin Flat Enamelled Copper Wire size ranges: (customizable)

单位(mm)	导体宽度 Conductor Width	0.150	0.200	0.260	0.300	0.320	0.360	0.400	0.450	0.500	0.550	0.650	0.700	0.800	0.900	1.000	1.500	单边漆膜厚度 Pre-side Insulation Thickness
导体厚度 Conductor Thickness	导体公差 Tolerance	±0.03																
0.015	±0.004																	Min 0.003
0.020																		
0.030																		
0.040																		
0.050																		
0.060																		
0.065																		
0.070																		
0.075																		
0.080																		
0.085																		
0.090																		
0.095																		
0.100																		
单边漆膜厚度 Pre-side Insulation Thickness		Min 0.003																

耐电晕扁平漆包线

CORONA RESISTANCE ENAMELLED FLAT WIRE



规格型号 Products Description
FP-*/220 FP-*/220

耐温等级 Thermal Class
220℃ 220℃

可生产规格范围:

宽度 : $2.50 \leq W \leq 15.00\text{mm}$

厚度 : $0.4 \leq T \leq 3.00\text{mm}$

厚度 : 宽度 : $1:1.5 \leq T:W \leq 1:20$

可生产漆膜厚度:

等级 0 (单边漆膜 $> 80\mu\text{m}$)

等级 1 (单边漆膜 $55-80\mu\text{m}$)

等级 2 (单边漆膜 $30-55\mu\text{m}$)

耐电晕时间:

等级0: $\geq 400\text{h}$

等级1: $\geq 100\text{h}$

等级2: $\geq 20\text{h}$

占空比 50%、3KV、155℃; 100ns

规格型号 Products Description
FP-*/240 FP-*/240

耐温等级 Thermal Class
240℃ 240℃

Product Size Range

Width: $2.50 \leq W \leq 15.00\text{mm}$

Thickness: $0.40 \leq T \leq 3.00\text{mm}$

T / W: $1:1.5 \leq T / W \leq 1:20$

Enamelled Thickness:

Grade0 ($> 80\mu\text{m}$ by pre-side)

Grade1 ($55-80\mu\text{m}$ by pre-side)

Grade2 ($30-55\mu\text{m}$ by pre-side)

Corona Resistance Time:

Grade 0: $\geq 400\text{h}$

Grade 1: $\geq 100\text{h}$

Grade 2: $\geq 20\text{h}$

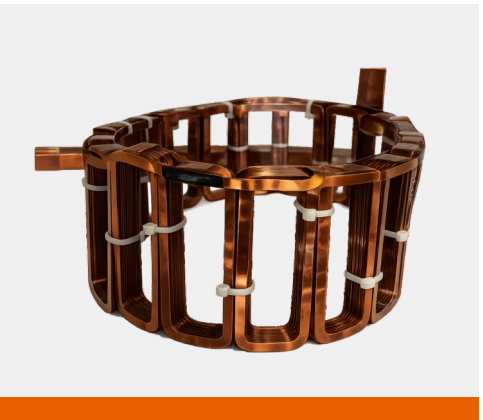
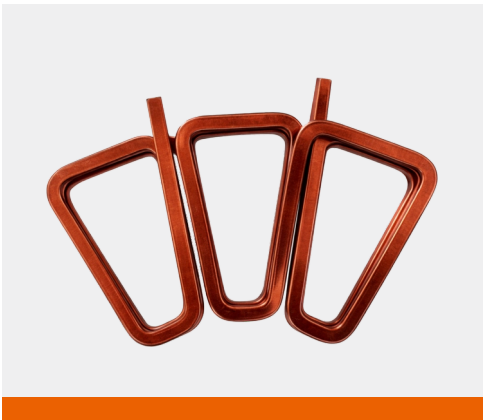
Duty Ratio 50%、3KV、155℃; 100ns

特性和优势 Features and Advantages

- 提升电机在电压上升及高频工作条件下,局部绝缘漆膜的耐电晕击穿能力。
Enhances the corona breakdown resistance of the local insulation coating under conditions of rising voltage and high-frequency operation in motors.
- 延长变频电机的使用寿命
Extends the service life of variable frequency motors.

应用领域 Application fields

- 新能源汽车驱动电机、发电机,以及航空航天、风电、轨道交通等领域的牵引电机。
Driving motors and generators for new energy vehicles, as well as traction motors for aerospace, wind power, and rail transit applications.



*PIW/240扁平漆包线

*PIW/240 POLYIMIDE ENAMELLED
FLAT WIRE



规格型号 Products Description

*PIW/240 *PIW/240

导体材质：低氧铜、无氧铜

漆膜种类：聚酰亚胺

耐温等级 Thermal Class

240℃ 240℃

Conductor: LOC、OFC

Type of Enamelled: Polyimide

可生产规格范围:

宽度：2.50 ≤ W ≤ 15.00mm

厚度：0.4 ≤ T ≤ 3.00mm

厚度：宽度：1:1.5 ≤ T:W ≤ 1:20

Product Size Range

Width: 2.50 ≤ W ≤ 15.00mm

Thickness: 0.40 ≤ T ≤ 3.00mm

T / W: 1:1.5 ≤ T / W ≤ 1:20

可生产漆膜厚度:

等级 0(单边漆膜 > 80μm)

等级 1(单边漆膜 55-80μm)

等级 2(单边漆膜 30-55μm)

Enamelled Thickness:

Grade0(> 80μm by pre-side)

Grade1(55-80μm by pre-side)

Grade2(30-55μm by pre-side)

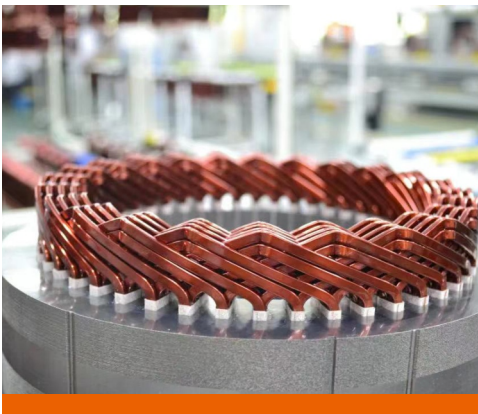
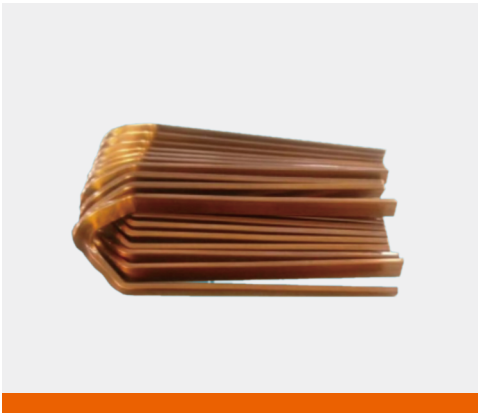
优势 Advantages

- ▶ 高导电率,低阻抗
High conductivity and low impedance.
- ▶ 优越的高温性能
Excellent high-temperature resistance.
- ▶ 优异的耐软化击穿性能和耐热冲击性能
Outstanding resistance to softening breakdown and thermal shock.
- ▶ 优异的介电性能和稳定的化学性能
Superior dielectric properties and stable chemical performance.

应用领域 Application Fields

新能源汽车驱动电机、发电机, 以及航空航天、风电、轨道交通等牵引电机。

Driving motors and generators for new energy vehicles, as well as traction motors for aerospace, wind power, and rail transit applications.



特殊扁平漆包线

SPECIAL ENAMELLED FLAT WIRE

近似方形漆包线

Square-like Enamelled Wire

定义：厚度：宽度≈1:1
Definition: thickness: Width Ratio≈1:1

导体材质：低氧铜、无氧铜
Conductor: LOC、OFC

耐温等级：180℃、220℃
Temperature Class: 180℃、220℃

自粘漆种类：热风型尼龙树脂、环氧树脂
Types of self-bonding paint: hot-air type nylon resin, epoxy resin.

亦可依据客户需求选择无粘着性线材
Non-adhesive wires can also be selected according to customer requirements

可生产规格范围：0.045-2.00mm
Producible Size Range: 0.045-2.00mm

R角尺寸：最小可达到 0.010mm
Rangle dimension: the minimum is 0.010mm

导体公差：如下表
Conductor tolerances: table below

W/T	规格 Specifications	公差 Tolerance
	0.045-0.200mm	±0.004
	0.201-0.500mm	±0.005
	0.501-0.800mm	±0.015
	0.801-1.000mm	±0.025
	1.001-2.000mm	±0.030



近似方形铜线实物剖面写真
Square-like Enamelled Wire Section View



优势 Advantages

近似方形线圈凭借其极小的间隙设计，相比同尺寸圆线圈展现出更卓越的散热性能。其小R角结构带来更高的槽满率，使得直流电阻 (DCR) 降低15–20%，从而提升电流承载能力、增加功率输出，并有效减少热量积累。

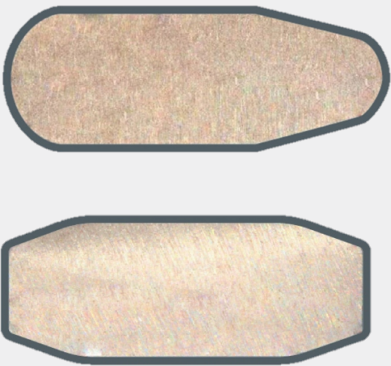
Square-like coils feature minimal gaps and exhibit superior heat dissipation compared to round wire coils of the same size. With a small radius and high slot fill factor, these coils reduce DCR by 15–20%, enabling higher current capacity, increased power output, and reduced heat generation.

异形扁平线

Special-shaped flat wire

异形扁平线可在有限的尺寸或空间中，增加导体面积，主要用于磁环类电感、电机类产品。

The special-shaped flat wire can increase the area of conductor in limited size or space. It is mainly used for magnetic ring inductance and motor products.



优势 Advantages

- ▶ 与圆线相比,在相同的磁芯设计下可获得更多的电感量。
More inductances are obtained with the same core design than round wires.
- ▶ 提高槽满率,降低温升。
Increased Slot Fill Factor, Reduced Temperature Rise.

大宽厚比扁平漆包线

Enameled flat wire with a large width-to-thickness ratio

佳腾可生产宽厚比高达30:1的大宽厚比扁平线。在实现这一高比例的同时，我们确保了线圈侧面漆膜的均匀涂覆，且整个截面的绝缘层厚度保持高度一致。

Wellascent is capable of producing Enameled flat wires with a large width-to-thickness ratio of up to 30:1. While achieving this high ratio, we ensure uniform enamel coating on the wire edges and consistent insulation thickness across the entire cross-section.

圆形漆包线

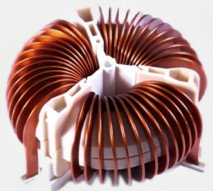
Round enamelled wire



温升44℃@50A
Temperature rise 44℃ @50A

异形扁平漆包线

Special-shaped flat enamelled wire



温升33℃@50A
Temperature rise 33℃ @50A



SFT-AIW/SB 0.14x3.60 剖面图
SFT-AIW/SB 0.14x3.60 Section View

合金线
ALLOY WIRE



铜线 Copper wire



漆膜种类: UEW 粘结层
可生产规格范围: $\varnothing 0.030-0.150$ mm
密度: 8.89g/cm^3
电阻率: $0.01724 [\Omega\text{mm}^2/\text{m}]$
伸长率: 10-40%
抗拉强度: $220-300 [\text{N/mm}^2]$

Type of Enamelled: UEW Bonding layer
Product Size Range: $\varnothing 0.030-0.150$ mm
Density: 8.89 g/cm^3
Electrical conductivity: $0.01724 [\Omega\text{mm}^2/\text{m}]$
Elongation: 10-40%
Tensile strength: $220-300 [\text{N/mm}^2]$

铜银合金线 Cu Ag Alloy Wire



漆膜种类: UEW 粘结层
可生产规格范围: $\varnothing 0.030-0.150$ mm
密度: 8.92g/cm^3
电阻率: $0.01739 [\Omega\text{mm}^2/\text{m}]$
伸长率: 10-40%
抗拉强度: $>380 [\text{N/mm}^2]$

Type of Enamelled: UEW Bonding layer
Product Size Range: $\varnothing 0.030-0.150$ mm
Density: 8.92 g/cm^3
Electrical Conductivity: $0.01739 [\Omega\text{mm}^2/\text{m}]$
Elongation: 10-40%
Tensile strength: $>380 [\text{N/mm}^2]$

铜锡合金线 Cu Sn Alloy Wire



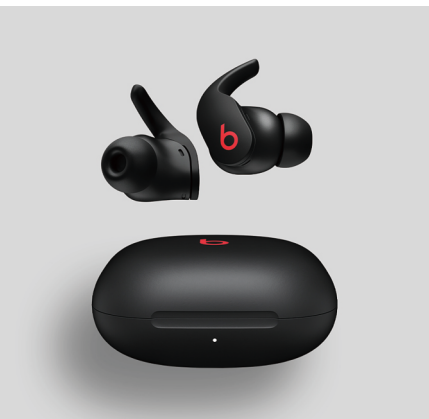
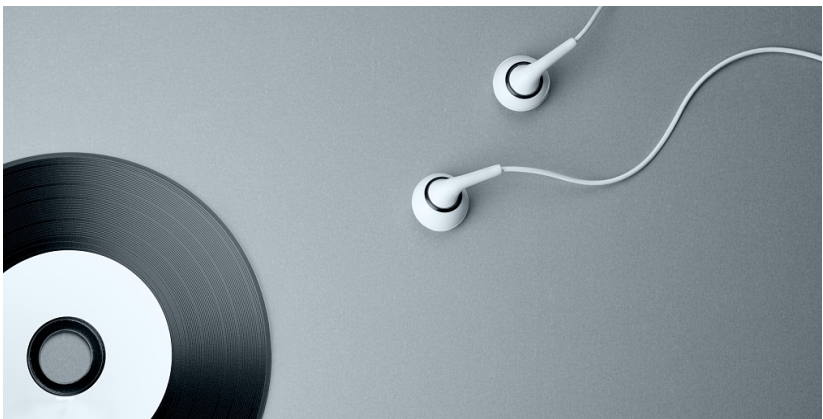
漆膜种类: UEW 粘结层
可生产规格范围: $\varnothing 0.030-0.150$ mm
密度: 8.80g/cm^3
电阻率: $0.0186 [\Omega\text{mm}^2/\text{m}]$
伸长率: 10-40%
抗拉强度: $>380 [\text{N/mm}^2]$

Type of Enamelled: UEW Bonding layer
Product Size Range: $\varnothing 0.030-0.150$ mm
Density: 8.80 g/cm^3
Electrical Conductivity: $0.0186 [\Omega\text{mm}^2/\text{m}]$
Elongation: 10-40%
Tensile strength: $>380 [\text{N/mm}^2]$



应用领域
Application field

高品质扬声器(耳机、手机)音圈; 车用电子部品;
其他工业产品
High quality speaker (headphones, mobile phones)
voice coils; Automotive electronic products;
Other industrial products



精密电镀扁平线

HIGH-PRECISION PLATED
FLAT WIRE

| 电镀扁平线 Plated flat wire

- ▶

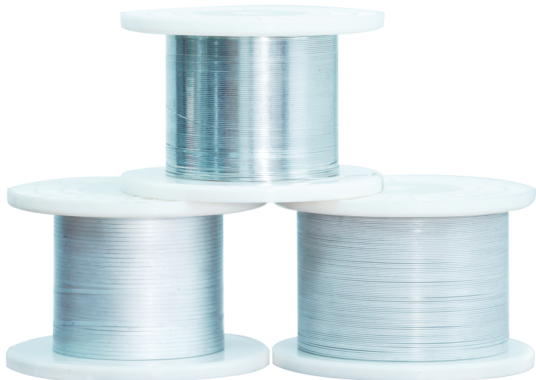
镀层柔软,平整性及延展性好
Soft coating, good smoothness and ductility
- ▶

具有良好的可焊性
Good solderability
- ▶

电镀镍层在空气中的稳定性能高
The electroplated nickel layer exhibits high stability in air
- ▶

具有较好的化学稳定性
Good chemical stability
- ▶

良好的抗腐蚀性能和镀层附着性能
Good anti-corrosion and plating adherence



| 产品型号 Products Description

产品名称 Products Information	型号 Part Name	制造范围 Range of manufacture					
		宽度 Width (mm)	厚度 Thickness (mm)	镀锡层厚度 Sn Thickness (μm)	镀镍层厚度 Ni Thickness (μm)	镀银层厚度 Silver Thickness (μm)	宽厚比 Width-Thickness Ratio
电镀锡扁平铜线 Tin Plated Flat Copper Wire	WS	0.21-7.5	0.04-1.8	3.048-6.350	—	—	1:25
电镀镍锡扁平铜线 Nickle-Tin Plated Flat Copper Wire	WSN	0.21-7.5	0.04-1.8	3.048-6.350	0.508-1.27	—	1:25
镀银线 Silver Plated Wire	WA	0.50-3.00	0.10-0.30	—	—	1.0-10	1:25

| 线轴信息

Bobbin information



P-630B

PC-500B

PN-400



PL-4

P-5

P-10

P-30

| 线轴尺寸规格表

Specification for Bobbins

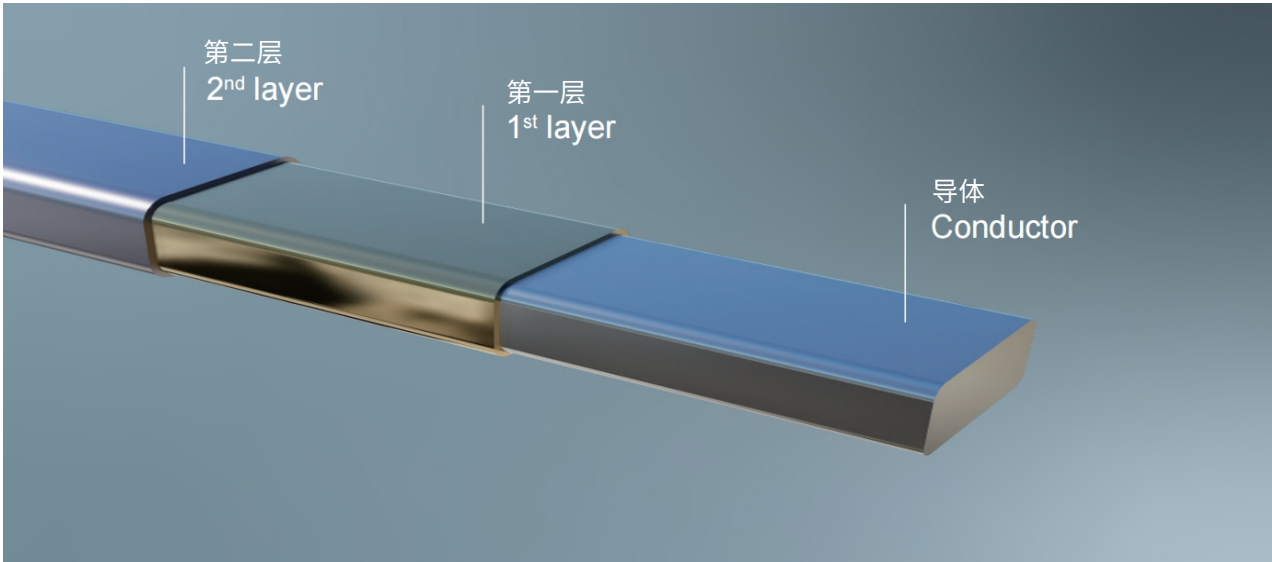
单位 Unit: mm

线轴类型 Spool Type	线轴代号 Bobbin Type	盘面直径 D Flange Diameter	线盘筒径 d Barrel Diameter	线轴内幅 W Barrel Length	盘面厚度 a Flange Thickness	轴孔 H Axis Hole	线盘重量(kg) Bobbin Weight	许容量(kg) Tolerance
	P-5	160	90	90	12	20	0.29	4.0±1
	P-10	200	90	110	12	25	0.50	8.0±5
	PL-4	125	80	160	15	25	0.24	4.0±1
	P-30	300	130	130	15	31	1.25	25.0±10
	PN400	400	200	193	20.5	68	4.10	75.0±15
	PC-500B	500	242	250	25	56	8.60	150.0±20
	P-630B	630	135	180	25	127	11.30	200.0±20

挤出PEEK线 EXTRUDED PEEK WIRE



规格 Specification



型号: *EKW(*)

温度等级: 240°C

导体尺寸 (扁): 0.30 ≤ 宽度 ≤ 15.00 mm
0.20 ≤ 厚度 ≤ 5.00 mm

导体尺寸 (圆): Ø 0.65-4.20 mm

Product Code: *EKW(*)

Thermal Class: 240°C

Conductor Size (Flat): 0.30 ≤ Width ≤ 15.00 mm
0.20 ≤ Thickness ≤ 5.00 mm

Conductor Size (Round): Ø 0.65-4.20 mm

注意：PEEK扁线只有三个绝缘等级 0-2 级
Note: PEEK Flat wire only has three insulation thickness Grade 0 to Grade 2.

等级 Grade	绝缘厚度 Insulation Thickness (μm)	BDV (V)	PDIV (Vp)
Grade 0	> 150	> 17000	> 2100
Grade 1	100-150	> 14000	> 1800
Grade 2	50-100	> 12000	> 1600

注：以上数据仅供参考。
Note: The above data is for reference only.

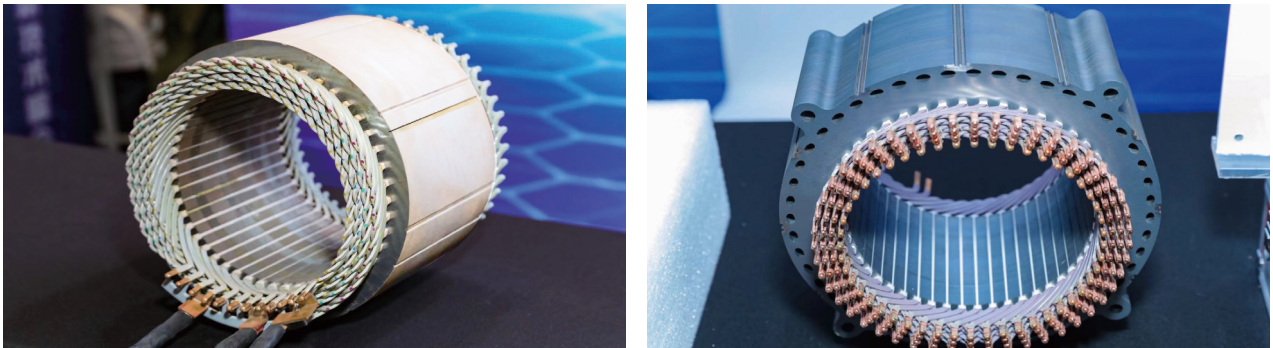
优势 Advantages

- ▶ 连续工作温度高达260°C
High continuous operation temperature up to 260°C
- ▶ 优异的耐磨性和机械性能
Excellent abrasion resistance and mechanical properties
- ▶ 优异的介电性能高PDIV
Outstanding dielectric properties with high PDIV
- ▶ 优异的耐化学性(润滑油、ATF油、浸渍漆)
Excellent chemical resistance (lubrication oil, ATF oil, impregnating varnish)

应用 Applications

用于新能源汽车的驱动电机、发电机以及航空航天、风能和轨道交通的牵引电机,尤其在 800V 等高压平台和连续波绕设计上具有优异的性能。

Driving motors, generators for new energy vehicles and traction motors for aerospace, wind energy and rail transit. In particular, it has excellent performance especially in high-voltage platforms such as 800 V and continuous wave-wound designs.



挤出三层绝缘线

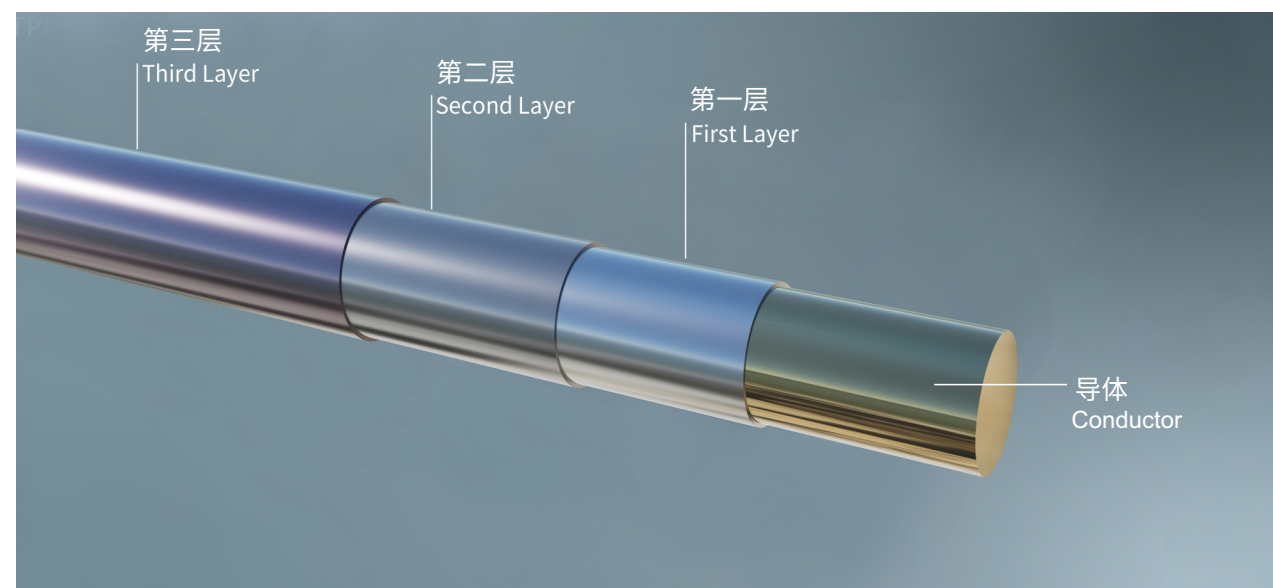
EXTRUDED TRIPLE INSULATED WIRE



EKW是由佳腾开发的不含 PFAS 的三层绝缘挤出线,EKW 具有卓越的介电和机械性能,优异的耐热性和耐磨性,适用于需要加强绝缘的应用。

EKW is PFAS-free extruded triple insulated wire developed by Wellascent, providing superior dielectric and mechanical properties, excellent heat resistance and abrasion resistance, suitable for applications requiring reinforced isolation.

规格 Specification



型号: EKW (UL OBJT2)

绝缘类型: 三层绝缘挤出线

总绝缘厚度: 100 – 150μm

温度等级: 220°C

电气强度: AC 6000V 1 分钟

符合标准: UL OBJT2 (E540852) | RoHS | REACH

导体尺寸 (扁): T: 0.02-0.4mm, W: 0.2-3.0mm

导体尺寸 (圆):

Ø0.041 mm (AWG46) - 3.665 mm (AWG7)

Product Code: EKW (UL OBJT2)

Insulation Type: Extruded triple insulation

Total Insulation Thickness: 100 – 150μm

Temperature Grade: 220°C

Electrical Strength: AC 6000V 1 min

Compliance: UL OBJT2 (E540852) | RoHS | REACH

Conductor Size (Flat): T: 0.02-0.4mm, W: 0.2-3.0mm

Conductor Size (Round):

Ø0.041 mm (AWG46) - 3.665 mm (AWG7)

优势 Advantages

- ▶ 不含PFAS, 保护环境并可持续发展
PFAS-free materials for better environment and sustainable development
- ▶ 优异的耐热性
Excellent heat resistance
- ▶ 优异的伸长和机械性能
Excellent elongation and mechanical properties
- ▶ 对普通溶剂具有优异的耐化学性
Superior chemical resistance to common solvents

应用 Applications



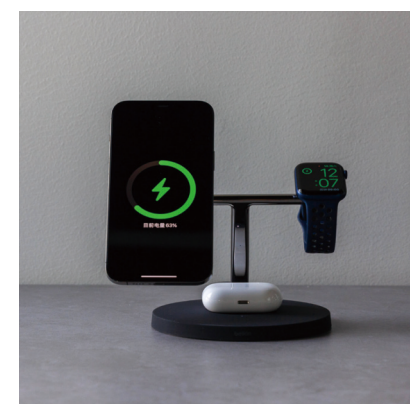
新能源汽车 New energy vehicles

充电桩, 车载电源, 电子控制系统和信号模块
Charging piles, on-board power supplies, electronic control systems, and signal modules



5G 通信基站 5G communication

5G通信的接收和发送, IC芯片网络变压器
Reception and transmitter of 5G communication, IC chip network transformer



消费电子 Consumer electronics

电源, 适配器, 快充, 无线充电等
Power supplies, adapters, fast charging, wireless charging, etc



太阳能光伏 Solar photovoltaic

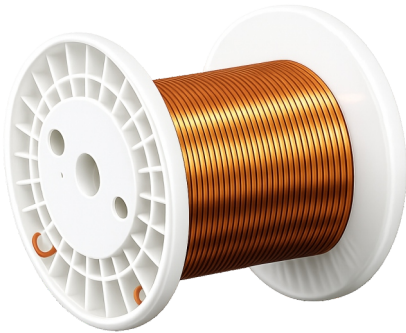
光伏储能, 逆变器等
Solar energy storage, inverters



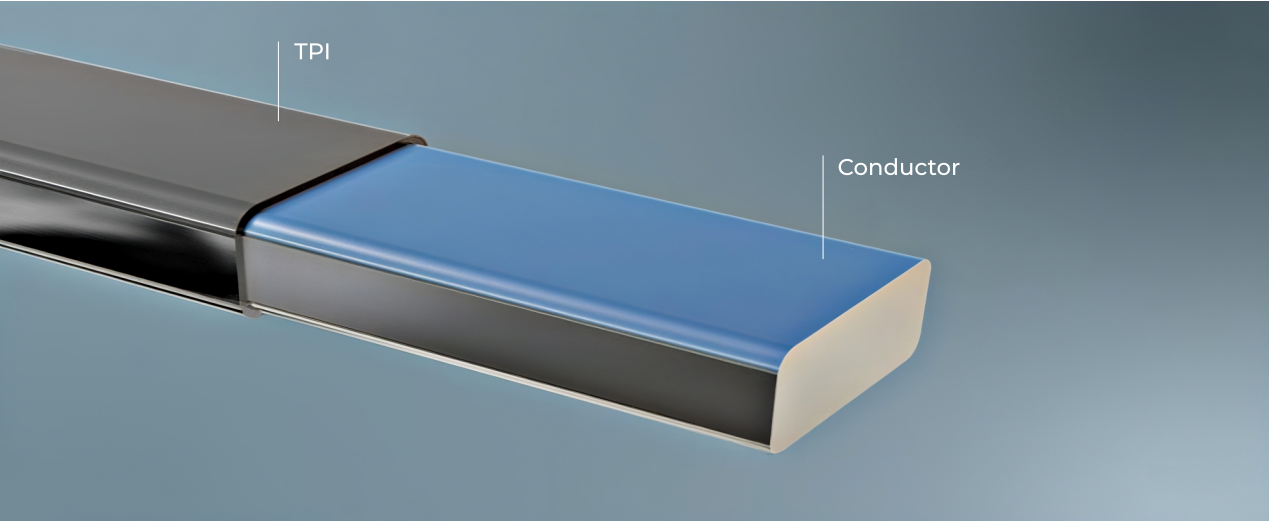
医疗 Medical industry

医疗设备相关的电源和线缆连接
Power supply and connection cables in medical equipment

挤出TPI线 EXTRUDED TPI WIRE



规格 Specification



型号:(SFT-)*EPIW

温度等级:240°C

导体尺寸 (扁):0.05 ≤ 宽度 ≤ 9.0 mm

0.04 ≤ 厚度 ≤ 3.0 mm

宽厚比:1.2 ≤ W/T ≤ 10

导体尺寸 (圆):Ø 0.04-4.0 mm

Product Code: (SFT-)*EPIW

Thermal Class: 240°C

Conductor Size (Flat): 0.05 ≤ Width ≤ 9.0 mm

0.04 ≤ Thickness ≤ 3.0 mm

Width Thickness Ratio: 1.2 ≤ W/T ≤ 10

Conductor Size (Round): Ø 0.04-4.0 mm

等级 Grade Class	绝缘厚度 Insulation Thickness(μm)	BDV(V)	PDIV(Vp)
Grade 0	> 150	> 16000	> 2000
Grade 1	120 - 150	> 13000	> 1800
Grade 2	90 - 120	> 11000	>1500
Grade 3	60 - 90	> 6000	> 1000
Grade 4	30 - 60	> 3000	> 500
Grade 5	10 - 30	> 1000	> 300

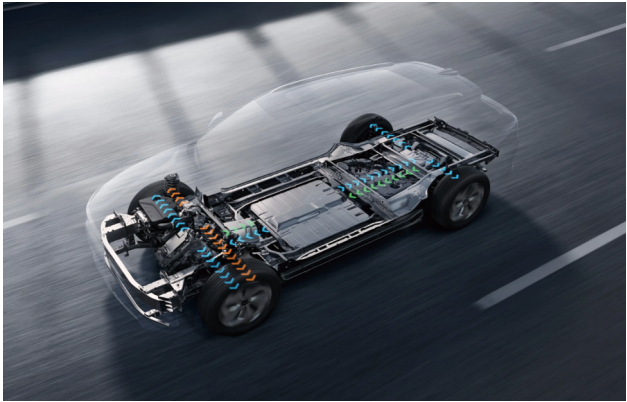
注：以上数据仅供参考。

Note: The above data is for reference only.

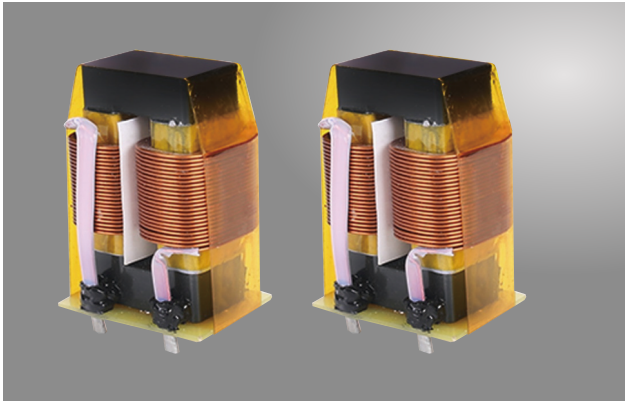
优势 Advantages

- ▶ 优异的介电性能, 击穿电压高, 绝缘性能强
Excellent dielectric properties with high breakdown voltage and strong insulation properties
- ▶ 优异的耐高温性能
Outstanding temperature resistance
- ▶ 与传统漆包线相比, 具有更好的耐磨性和机械性能
Superior wear resistance and mechanical properties compared to traditional enameled wires
- ▶ 优异的耐化学品性能(包括润滑油、ATF油、浸渍清漆)
Excellent resistance to chemicals (including lubrication oils, ATF oil, impregnating varnish)

应用 Applications



新能源驱动电机
Electric Vehicle Drive Motors



变压器/电感
Transformers / Inductors



5G通讯基站
5G Communication Base Stations



电源
Power Supplies



手机/可穿戴设备中的微型线圈
Miniature Coils in Mobile Phones/Wearable Devices

产品典型应用

PRODUCTS TYPICAL APPLICATIONS

产品型号 Product Code	名称 Name
SFT-AIW	聚酰胺酰亚胺漆包铜扁线 Polyamide-imide Enameled Flat Copper Wire
SFT-EI/AIWJ	聚脂亚胺复合聚酰胺酰亚胺漆包扁平线 Polyester-imide Overcoated With Polyamide-imide Enameled Flat Copper Wire
SFT-AIW/SB	自粘性聚酰胺酰亚胺漆包铜扁线 Self-bonding Polyamide-imide Enameled Flat Copper Wire
SFT-UEWH	直焊性聚氨酯漆包铜扁线 Solderable Polyurethane Enameled Flat Copper Wire
SFT-SEIWR	直焊性聚酯亚胺漆包铜扁线 Solderable Polyester-imide Enameled Flat Copper Wire
SFT-UEWH/SB	自粘直焊性聚氨酯漆包铜扁线 Self-bonding Solderable Polyurethane Enameled Flat Copper Wire
*AIW	聚酰胺酰亚胺漆包铜圆线 Polyamide-imide Enameled Round Copper Wire
*AIW/SB	自粘性聚酰胺酰亚胺漆包铜圆线 Self-bonding Polyamide-imide Enameled Round Copper Wire
*UEWH	直焊性聚氨酯漆包铜圆线 Solderable Polyurethane Enameled Round Copper Wire

产品型号 Product Code	应用 Application
SFT-AIW	驱动电机、OBC、电感器、变压器、马达, 光伏逆变器 Motor,OBC,Inductor, Transformer,PV Inverter
SFT-EI/AIWJ	变压器、电感器、马达, 光伏逆变器 Transformer,Inductor, Motor, PV Inverter
SFT-AIW/SB	一体成型电感、无人机共轴电机, 机床电机, 半导体设备直线电机 Molding Choke, Motor
SFT-UEWH	消费类共模电感 CMC
SFT-SEIWR	声学类电感, 汽车类电感 Inductor
SFT-UEWH/SB	手机无线充电接收端线圈 Wireless Charging Receiver Coil
*AIW	共模电感, PFC电感驱动电机, 手持工具类电机 CMC, PFC , Motor
*AIW/SB	一体成型电感 Molding Choke
*UEWH	消费, 汽车类变压器 CMC

产品典型应用

PRODUCTS TYPICAL APPLICATIONS

产品型号 Product Code	名称 Name
FP-*/220	聚酰胺酰亚胺耐电晕漆包铜扁线 Corona Resistance Polyamide-imide Enameled Flat Copper Wire
FP-*/240	聚酰亚胺耐电晕漆包铜扁线 Corona Resistance Polyimide Enameled Flat Copper Wire
*PIW/240	聚酰亚胺漆包铜扁线 Polyimide Enameled Flat Copper Wire
SFT-*PI/SB	聚酰亚胺自粘非直焊漆包线 Self-bonding Polyimide Enameled Flat Copper Wire
WSN	电镀镍锡扁平铜线 Nickle-Tin Plated Flat Copper Wire
WA	电镀银扁平铜线 Silver Plated Flat Copper Wire
SDHT-*UEWF	超细合金圆线 Ultra Fine Copper Alloy Wire
*EKW	聚醚醚酮漆包铜扁线 Polyether Ketone Ether Ketone Copper Wire
(SFT-)*EPIW	热塑性聚酰亚胺挤出铜扁线 Thermoplastic Polyimide Extruded Flat Copper Wire

产品型号 Product Code	应用 Application
FP-*/220	驱动电机 Motor
FP-*/240	驱动电机 Motor
*PIW/240	驱动电机 Motor
SFT-*PI/SB	无人机直线电机 Linear Motor
WSN	磁珠电感 Inductor
WA	电子烟加热线圈 E-cigarette
SDHT-*UEWF	耳机音圈 VCM
*EKW	驱动电机, 升压电抗 Motor, Boost Reactor
(SFT-)*EPIW	驱动电机, 电感, 变压器 Motor, Inductor, Transformer

产品典型应用
PRODUCTS TYPICAL APPLICATIONS

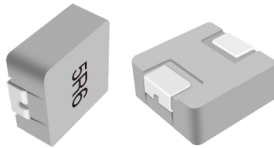
应用领域 Application field

佳腾生产的精密扁平漆包铜线,广泛应用于电子、电器、数码、汽车、新能 源通讯等领域中,并在各行业起着越来越重要的作用。

Wellascent's high-precision flat enameled copper wire is widely used in electronics, electrical appliances, digital products, automotive, new energy, and communications sectors. It plays an increasingly critical role across these industries.



电感器 Inductor



人形机器人 Humanoid Robot



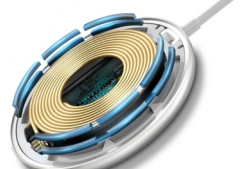
低空飞行 eVTOL



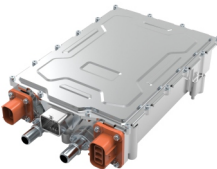
音圈 Voice Coil



无线充电 Wireless charging



车载充电机 OBC



产品典型应用 PRODUCTS TYPICAL APPLICATIONS

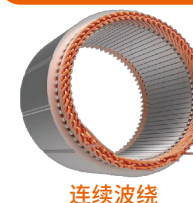
功率电感



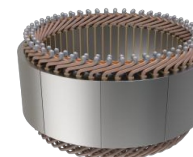
变压器



驱动马达



连续波绕



Hair Pin 电机

无线充电



PCU/ECU



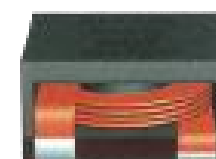
共模电感



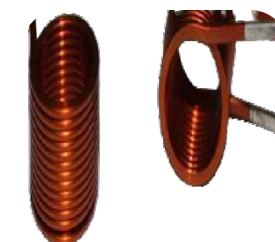
扼流线圈



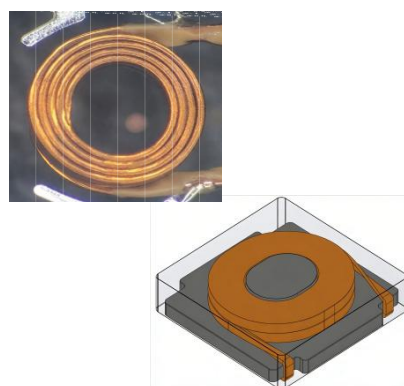
48V 启停



汽车调频



一体成型



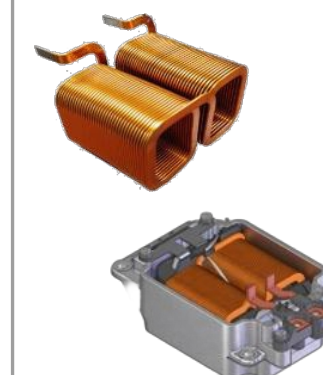
无线充电



HID



升压电抗



OBC



企业资质

ENTERPRISE QUALIFICATION

佳腾不断更新各项检测设备,完善检测机制,并对产品进行外观、尺寸、击穿电压、电阻、盐水针孔、伸长率、焊锡、耐电晕、PDIV、软化击穿、回弹角、冷热冲击、耐油实验等各种严格测试,确保佳腾产品的卓越品质。为了更加高效地服务客户,公司引进 CRM、ERP、MES 企业管理资源系统,通过ISO9001、IATF16949、ISO14001 国际质量管理体系认证,产品经过SGS检测,符合ROHS及无卤素要求,并获得美国 UL 认证。

Wellascent continuously updates its testing equipment and refines its inspection protocols. To ensure exceptional product quality, we subject our products to a comprehensive range of stringent tests, including appearance, dimensions, breakdown voltage, DC resistance, salt water pinhole, elongation, solderability, corona resistance, PDIV, softening breakdown, spring-back angle, thermal shock, and oil resistance tests.

To serve our customers more efficiently, we have implemented integrated CRM, ERP, and MES management systems. The company is certified to international quality standards including ISO 9001, IATF 16949, and ISO 14001. Our products are tested by SGS for compliance with RoHS and halogen-free requirements and are UL recognized.

ISO 9001



ISO 14001



IATF16949



ISO 45001



ISO 50001

