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全球精密漆包线智造商
Reliable, Down to the Last Meter

www.yihengmagnetwire.com

广西亿恒电工器材有限公司
GUANGXI YIHENG ELECTRICAL
EQUIPMENT CO., LTD.



精密智造 · 零缺陷交付
Precision Engineering · Zero-Defect Quality



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COMPANY PROFILE

企业简介

高精度漆包线专业制造商

Professional Manufacturer of High-Precision Enameled Magnet Wire

广西亿恒电工器材有限公司是国家高新技术企业，专注高精度漆包线、电磁线研发、生产与销售，拥有十五年工业线材制造领域深耕经验，持有多项自主研发核心专利。以智能制造、全流程严苛品控为核心，打造集研发、生产、检测、销售、服务于一体的现代化电工企业，产品通过多项国际权威认证。

公司聚焦电机、电器、电子、新能源等全球高端制造领域，产品覆盖全耐温等级与完整规格体系，严格遵循GB/T、IEC、NEMA、JIS等国际国内标准生产。凭借稳定的产能交付、标准化生产流程、专业化技术支持与高效一站式服务，为全球客户提供可靠合规、高性价比的漆包线解决方案，致力成为国际领先的精密线材制造标杆。

Guangxi Yiheng Electrical Equipment Co., Ltd. is a National High-Tech Enterprise specializing in the R&D, production and sales of high-precision enameled magnet wires. With 15 years of deep expertise in industrial wire manufacturing, we hold multiple independent core patents. Centered on intelligent manufacturing and full-process quality control, we have built a modern electrical enterprise integrating R&D, production, sales and service.

Our products serve high-end manufacturing sectors worldwide, including home appliances, motors, electronics and new energy industries. All products are manufactured in full compliance with international and domestic standards such as GB/T, IEC, NEMA and JIS. We ensure stable production capacity delivery, standardized workflows, professional technical support and efficient one-stop service, providing global customers with reliable, compliant and cost-effective enameled wire solutions. We strive to become a leading benchmark in precision wire intelligent manufacturing worldwide.



投资规模 Investment Scale

总投资 Total Investment	固定资产 Fixed assets
1.5 亿元	5500 万元

占地面积 Land Area

占地 Land Area	规划用地 Planned Land	总建面 Total Construction Area
30 亩	16300m²	11800m²

产能与产值 Production Capacity & Output Value

年产能 Annual production capacity	年产值超 Annual output value
15000 吨	4 亿元

员工与社会责任 Staff & Social Responsibility

现有员工 Existing employees	就业岗位 Provided employment positions
200 人	130 个



PRODUCTION CAPABILITIES

生产实力

年产量

15000t



6大标准化车间 Six Standardized Workshops

亿恒电工坐拥6大标准化车间, 配备全套智能生产设备, 建成规模化智造体系。可兼顾批量订单与定制需求, 交付准时率超99%, 年产能15000吨, 供货稳定高效。

Yiheng Electrical operates 6 standardized workshops fully equipped with intelligent production facilities, forming a large-scale intelligent manufacturing system. We cater to both bulk orders and customized demands, ensuring on-time delivery rate over 99% and annual output of 15,000 tons, delivering stable and sufficient supply.

核心设备 Core Equipment

- 高速拉丝 230台高速拉丝机
- 精密退火 专用精密退火炉
- 绝缘涂覆 多道闭环涂漆系统
- 高温固化 智能恒温烘烤通道
- 在线质控 全流程在线检测仪
- 成品收排 全自动精准收线机

High-Speed Wire Drawing: 230 high-speed wire drawing machines
Precision Annealing: Dedicated Precision Annealing Furnaces
Insulation Enameling: Multi-Stage Closed-Loop Enameling Systems
High-Temperature Curing: Intelligent Constant-Temperature Curing Ovens
In-Process Monitoring: Full-Line Real-Time Quality Inspectors
Finished Winding: Fully Automatic Precision Take-Up Machines

全维度柔性定制 Full-Range Flexible Customization

兼顾大批量交付, 适配小批量多规格订单
 Supporting both high-volume deliveries and small-batch, multi-spec orders



01.规格定制

覆盖0.08mm-5.00mm全规格, 所有耐温等级与绝缘类型

Customized Specifications

Covers the full range of 0.08mm-5.00mm, with all temperature classes and insulation grades available



02.颜色定制

标准色与定制色可选, 满足产品标识与外观需求

Customized Colors

Standard and custom colors available for product identification and aesthetic requirements



03.线盘定制

多种规格胶盘可选, 支持尺寸与轴芯定制

Customized Spools

Various standard spool models, with customizable size and core specifications



04.包装定制

定制外箱尺寸、印刷唛头, 提供防潮加固服务

Customized Packaging

Custom carton sizes, printed shipping marks, and moisture-proof reinforcement services available

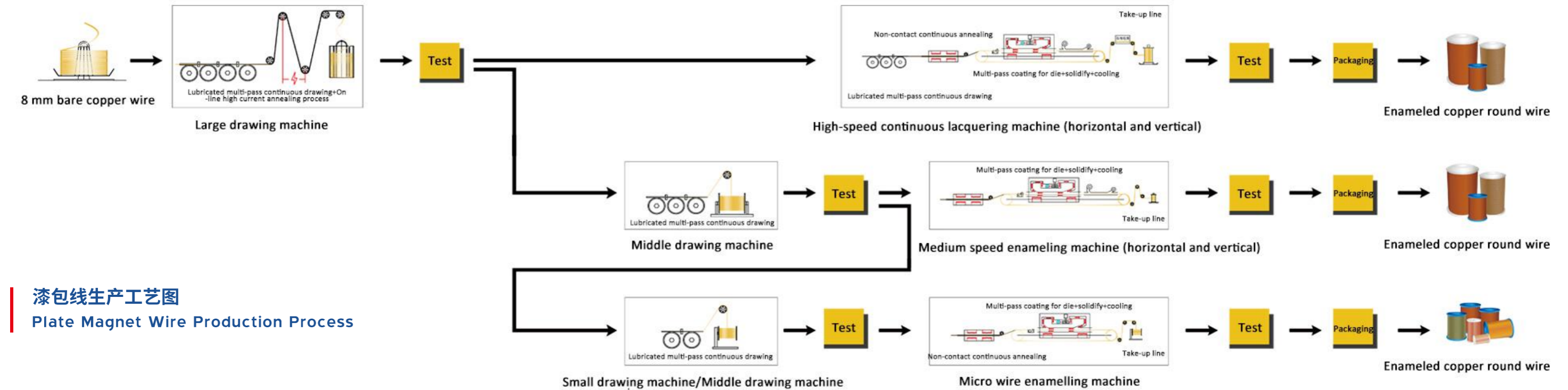


PRODUCTION SYSTEM

全流程生产体系

亿恒电工以六大标准化工序, 实现漆包线全流程精密智造, 保障品质稳定可靠。

Yiheng Electric achieves full-process precision smart manufacturing for enameled wires via six standardized procedures, ensuring consistent and reliable quality.



QUALITY CONTROL & ASSURANCE

品质管控



全链严控 零缺陷标准 Zero-Defect Full-Chain Quality Control

零缺陷匠心管控

从原料入库到成品交付，建立全链路标准化管控体系。实施实时在线监测与层层核验机制，高精度覆盖尺寸、漆膜、绝缘、导电、耐高温等所有核心性能指标，确保每一米线材品质稳定一致。

Zero-defect management with exquisite craftsmanship

We have established a standardized full-chain quality control system from raw material warehousing to finished product delivery. With real-time in-process monitoring and multi-stage inspection mechanisms, we precisely cover all core performance indicators including dimensions, enamel film, insulation, conductivity and temperature resistance, ensuring consistent quality of every meter of wire.

三重检测机制

Three-Tier Inspection Mechanism



全项精密检测

Full-range
Precision Testing



关键指标校验出厂

Key Index Verification
Before Delivery

100%

高精度检测能力

High-precision Testing Capability

配备耐温、耐压、线径精度、绝缘性能等全套专业检测仪器，所有关键指标100%全检，每批次产品需经过多重校验合格后方可出厂。

Equipped with complete professional testing instruments for temperature resistance, voltage resistance, wire diameter precision and insulation performance, **all key indicators undergo 100% full inspection**. Each batch of products must pass multiple verification tests before delivery.



全自动电压实验仪



电脑导体电阻实验仪



软化击穿试验仪

认证体系

Certification System



企业已通过ISO 9001质量管理体系认证，产品获得UL、RoHS、REACH等多项国际权威认证，全面满足北美、欧盟、东南亚等全球主要市场的准入要求。依托标准化检测体系与专业检测设备，确保所有产品完全符合高端制造业严苛标准。

The enterprise has passed ISO 9001 quality management system certification, and our products have obtained multiple international authoritative certifications including UL, RoHS and REACH, fully meeting the access requirements of major global markets such as North America, the European Union and Southeast Asia. Supported by standardized testing systems and professional testing equipment, we ensure all products fully meet the stringent standards of high-end manufacturing industries.



权威认证

Authoritative
Certification

20+



SERVICE GUARANTEE

服务保障

高效稳定全球供货保障

Efficient & Stable Global Supply Guarantee

01

全链路供应链体系

Full-link Supply Chain System

构建从原料甄选、生产排程、品质管控到成品仓储的全链路闭环体系，全流程数字化智能管控。依托规模化产能储备与柔性生产能力，实现订单快速响应与稳定交付，保障客户生产计划顺利推进。

We have built a full-link closed-loop system covering raw material selection, production scheduling, quality control and finished product warehousing, with end-to-end digital intelligent management. Supported by large-scale production capacity reserves and flexible manufacturing capabilities, we ensure fast order response and stable delivery to keep customers' production plans on track.



02

全球物流优势

Global Logistics Advantages

建立覆盖全球的高效物流网络，与多家国际知名物流企业建立长期战略合作。提供国际专线直达、门到门一站式配送服务，协助客户办理清关、商检等相关手续，确保货物安全、准时送达全球各地。

We have established an efficient logistics network covering the globe, with long-term strategic partnerships with multiple internationally renowned logistics companies. We offer dedicated international line delivery and door-to-door one-stop distribution services, assisting customers with customs clearance, commodity inspection and other related procedures to ensure safe and on-time delivery worldwide.



03

全方位定制服务

Comprehensive Customized Services

支持全维度个性化定制，涵盖线径规格、耐高温等级、绝缘涂层类型、产品颜色及包装标识。提供小批量快速打样服务，按需精准生产，完美适配不同行业、不同场景的特殊使用需求。

We support full-dimensional personalized customization, including wire gauge specifications, temperature classes, insulation coating types, product colors and packaging marks. We provide fast small-batch sampling services and on-demand precision production to perfectly adapt to the special usage needs of different industries and scenarios.



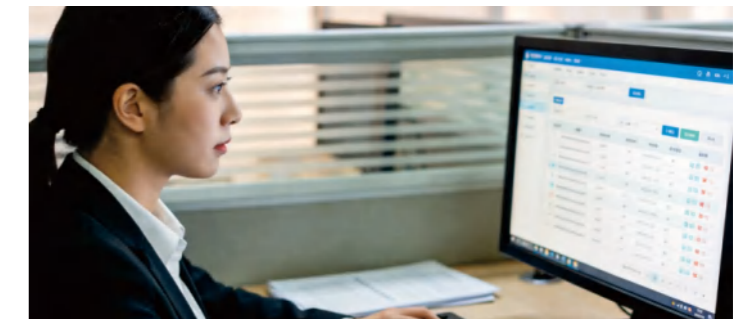
04

全程无忧售后承诺

Worry-Free After-Sales Commitment

提供7×24小时全天候技术支持与咨询服务，品质问题2小时内快速响应、48小时内给出解决方案。实行一对一专属客户经理制，订单全程可追溯，全程护航合作，让您采购无忧。

We provide 7×24 all-day technical support and consulting services, with 2-hour rapid response to quality issues and solutions provided within 48 hours. Our one-on-one exclusive customer manager system ensures full traceability of orders, safeguarding the entire cooperation process for worry-free procurement.



ENAMELED COPPER MAGNET WIRE 漆包铜圆线系列

聚酯系列/Polyester series



产品主要特点及用途

Products main features and application

- 耐刮性、耐溶剂性能优良
- 适用于B级电机、普通电器、仪器仪表, 和各类电子元器件及绕组用线圈
- Good resistance to abrasion and solvent
- Apply to B Class motors, appliances, instrumentations, various types of electronic components and winding for coils

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
B	130	PEW	0.06-4.0	7#-42#*	60317-34	6109.7		C3202
F	155				60317-3	6109.2	MW5-C	

注：“*”为近似美国线规 Note：“*” for approximate American wire gage

聚氨酯系列/Polyurethane series



产品主要特点及用途

Products main features and application

- 能直焊, 易染色
- 高频下介质损耗低, 盐水针孔性能好
- 适用于继电器、微电机、变压器、仪器仪表, 和各类电子元器件及绕组用线圈
- Can be Soldered without removal of coating, and easy to be dyed
- Small dielectric loss under high frequency apparatus and good pinhole test performance
- Apply to relays, micro-motors, transformers, instrumentation and various kinds of electronic components and with for coils

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
B	130	UEW	0.04-1.8	13#-46#*	60317-4	6109.4	MW75-C	C3202
F	155				60317-20	6109.10	MW79-C	
H	180				60317-51	6109.23	MW82-C	

注：“*”为近似美国线规 Note：“*” for approximate American wire gage

聚酯或聚酯亚胺复合聚酰胺酰亚胺系列/Polyester or polyesterimide over-coated polyamide-imide series



产品主要特点及用途

Products main features and application

- 耐高、低温、耐冷冻剂, 耐辐射, 耐热冲击, 化学性能优良
- 适用于各类工作环境恶劣的C级电机、变压器、及制冷剂为R22、R410c/R600a/R134a的冰箱、空调用压缩机电机绕组
- Capable of working under extreme situations where strong resistibility against very high and low temperature, powerful cryogen, hard radiation and forceful heat shock are needed.
- Applied in C Class motors, transformers, electric refrigerator powered by Refrigerant R22/R410c/R600a/134a and windings

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
C	200	EI/AIW	0.08-4.0	7#-40#*	60317-13	6109.20	MW35-C MW73-C	
C	220(复合)							

注：“*”为近似美国线规 Note：“*” for approximate American wire gage

聚酯亚胺系列/Polyesterimide series



产品主要特点及用途

Products main features and application

- 优良的热稳定性, 耐刮、耐溶剂性能好
- 适用于大、中、小型H级电机、高温变压器、仪器仪表, 和各类电子元器件及绕组用线圈
- Good Thermostability under 150. Cworking environment, good resistance to abrasion and solvent
- Applied in all sizes of H Class motors, transformers, instrumentations, various types of electronic components and winding for coils

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
H	180	EIW	0.06-4.0	7#-42#*	60317-8	6109.5	MW30-C	C3202

注：“*”为近似美国线规 Note：“*” for approximate American wire gage

聚酰胺系列/Polyamide series



产品主要特点及用途

Products main features and application

- 耐高温、耐严寒、耐冷冻剂、耐辐射、耐热冲击, 化学性能优良
- 适用于各类工作环境恶劣的C级电机和变压器, 如汽车、航空航天、核工业等
- Keep working under extreme situations, good properties of resistance to high and low temperature, powerful cryogen, forceful heat shock, chemical and radiation
- C class motors under extreme situation, transformers, such as automobile, aerospace and nuclear industry

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准		
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA
C	220	PIW	0.20-12.00	32~12	60317.7	6109.6	MW73-C
	240				60317.46	60317.22	MW16-C

ENAMELED ALUMINUM MAGNET WIRE

漆包铝圆线系列

聚氨酯铝圆线 / Polyurethane Round Aluminum Wire



产品主要特点及用途
Products main features and application

- 耐刮性、耐溶剂性能优良
- 适用于 B 级 (130°C) 电机、普通电器、仪器仪表, 和各类电子元件及绕组线圈
- Excellent abrasion and solvent resistance
- Suitable for Class B (130°C) motors, general electrical appliances, instruments, and various electronic components and winding coils

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
F	155	UEW	0.1-6.0mm	38~3	60317-20	23312.2	MW 79-A	C3202
H	180				60317-51	6109.23	MW 79-A	C3202

聚酯铝圆线 / Polyester Round Aluminum Wire



产品主要特点及用途
Products main features and application

- 耐刮性、耐溶剂性能优良, 具备免刮漆直焊特性 (聚氨酯漆包线核心独有优势)
- 适用于 F 级 (155°C)、H 级 (180°C) 高频线圈、变压器、继电器、微电机及精密电子元件
- Good resistance to abrasion and solvent, with enamel-free direct solderability
- Apply to Class F(155°C) and Class H(180°C) high-frequency coils, transformers, relays, micro-motors and precision electronic components

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
B	130	PEW	0.1-6.0mm	38~3	60317-2	23312.3	MW 24-A	C 3202
F	155				60317-16	23312.4	MW 25-A	C 3202

聚酯亚胺铝圆线 / Polyester-imide Round Aluminum Wire



产品主要特点及用途
Products main features and application

- 耐刮性、耐溶剂性能优良, 耐热性与机械强度优异
- 适用于 H 级 (180°C) 电机、干式变压器、电抗器、家用电器及工业电气设备
- Excellent abrasion and solvent resistance, with outstanding heat resistance and mechanical strength
- motors, dry-type transformers, reactors, household appliances and industrial electrical equipment

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
H	180	EIW	0.1-6.0mm	38-3	60317-8	23312.5	MW 35-A	C 3202

聚酯亚胺复合聚酰胺酰亚胺铝圆线 / Polyester-imide Composite Polyamide-imide Round Aluminum Wire



产品主要特点及用途
Products main features and application

- 具备卓越的耐热性、耐刮性、耐溶剂性及耐化学腐蚀性
- 适用于 N 级 (200°C) 高温电机、密封式电机、汽车电机、特种变压器及新能源电气设备
- Superior heat resistance, radiation resistance, solvent resistance and chemical corrosion resistance
- Suitable for Class N (200°C) high-temperature motors, hermetic motors, automotive motors, special motors, new energy and high-end electrical equipment

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
C	200	EI/AIW	0.1-6.0mm	38-3	60317-13	23312.7	MW37-A	C 3202

聚酰亚胺铝圆线 / Polyimide Round Aluminum Wire



产品主要特点及用途
Products main features and application

- 拥有极高的耐热性、耐辐射性、耐化学腐蚀性, 机械性能优异
- 适用于 C 级 (220°C) 航空航天电器、军工设备、高温特种电机、核工业及高端电子设备
- Exceptional heat resistance, radiation resistance, chemical corrosion resistance and excellent mechanical properties
- Suitable for Class C (220°C) aerospace electrical appliances, military equipment, high-temperature special motors, industrial motors and high-end electronic equipment

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
C	220	PI	0.1-6.0mm	38-3	60317-10	23312.6	MW16-A	C 3202

COPPER CLAD ALUMINUM ENAMELED WIRE

铜包铝漆包线

APPLICATION

应用领域

高精度漆包线·赋能全领域工业制造

High-Precision Enameled Wires, Empowering Industrial Manufacturing Across All Fields

聚氨酯铜包铝圆线 / Polyurethane Round Copper-clad Aluminum Wire



产品主要特点及用途

Products main features and application

- 耐刮性、耐溶剂性能优良, 兼具铜的高导电性与铝的轻量化优势
- 适用于 B 级 (130°C) 普通电机、小型变压器、电感线圈、节能灯镇流器及各类消费电子元器件
- Excellent abrasion and solvent resistance, combining the high conductivity of copper with the lightweight advantage of aluminum
- Suitable for Class B (130°C) general motors, small transformers, inductance coils, energy-saving lamp ballasts and various consumer electronic components

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
B	130	UEW	0.1-6.0mm	38~3	60317	6109.4	MW 1000	C 3202
F	155				60317	6109.1	MW 1000	C 3202
H	180				60317	6109.23	MW 1000	C 3202

聚酯铜包铝圆线 / Polyester Round Copper-clad Aluminum Wire



产品主要特点及用途

Products main features and application

- 耐刮性、耐溶剂性能优良, 具备免刮漆直焊特性, 高频损耗低
- 适用于 F 级 (155°C)、H 级 (180°C) 高频变压器、继电器、微电机、通讯设备线圈及精密电子元器件
- Excellent abrasion and solvent resistance, with enamel-free direct solderability and low high-frequency loss
- Suitable for Class F (155°C) and Class H (180°C) high-frequency transformers, relays, micromotors, communication equipment coils and precision electronic components

Thermal class 热级		Enamel type 涂层类型	Wire gauge 规格范围		Standard 适用标准			
Code 代号	Level 耐温等级		mm	AWG	IEC	GB/T	NEMA	JIS
B	130	PEW	0.1-6.0mm	38~3	60317	6109.7	MW 1000	C 3202
F	155				60317	6109.7	MW 1000	C 3202
H	180	EIW			60317	6109.5	MW 1000	C 3202
C	220	EI/AIW			60317	6109.11	MW 1000	C 3202



电机制造
Motor
Manufacturing



家用电器
Household
Appliances



电子设备
Electronic Devices



新能源装备
New Energy
Equipment



工业自动化
Industrial
Automation



变压器电感
Transformers &
Inductors

COLLABORATION

CASES / 标杆合作案例

