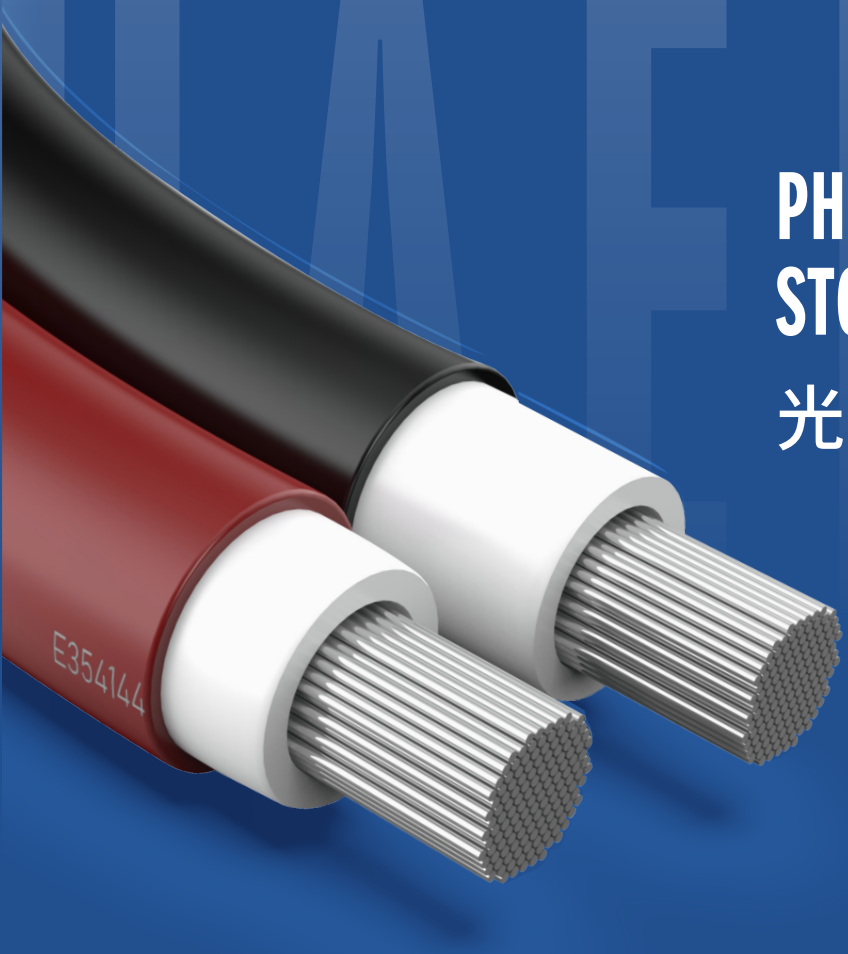


PHOTOVOLTAIC & ENERGY STORAGE CABLE

光伏储能线缆

Haerkn

广东华坤新能源股份有限公司

GUANGDONG HAERKN NEW ENERGY CO.,LTD.

公司简介
COMPANY PROFILE

广东华坤新能源股份有限公司（以下简称华坤新能源）成立于 2005 年，是一家致力于万物互联智慧系统联接解决方案提供商，专注于特种线缆、线束、连接器的研发设计、开发制造、销售服务及解决方案输出的高科技企业，广泛为太阳能光伏、风能发电、新能源汽车、AI 机器人、高端医疗、高端装备制造、航空航天、5G 及通讯电子等行业提供配套产品和技术支持，共促战略性新兴产业集群的发展新高地。

华坤新能源是一家产业链集团公司，总部设在东莞市，在东莞、赣州设有制造基地。公司拥有丰富的产品体系、高效的生产线、严格的品质管理体系、卓越的工程研发实力，以及自动化配套装备和数字化管理系统，形成以技术引领、产业支持、流程协同、配套完善的产业链，为广大客户提供稳定的产品质量、快捷的响应速度。

华坤新能源拥有丰富的精益制造经验，形成以 ISO 9001:2016、ISO 14001:2015 和 IATF 16949:2016 为主的管理认证体系，以 UL、CUL、VDE 和 TüV 等为核心的国际性安规认证，产品涵盖硅胶线、PVC 线、XLPE 线、铁氟龙线、屏蔽线、光伏线、充电桩线、连接器等，广泛应用在汽车 / 新能源汽车、充电桩、光伏、储能、机器人、医疗等业务领域，为全应用场景提供稳定、安全、节能、便捷的产品及解决方案。

秉承“以为客户创造价值为核心，以成就伙伴共赢为基石，以创业精神为动力，以追求自省自律自觉自强精神为信仰”的核心价值观，践行“科技革新，推动产业变革”的企业使命，致力于携手更多伙伴智联世界，畅想未来。

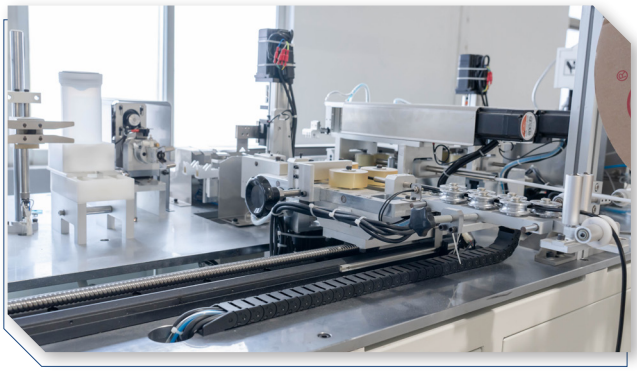
Guangdong Haerkn New Energy Co., Ltd. (hereinafter referred to as Haerkn New Energy) was established in 2005. It is a provider of connection solutions dedicated to the interconnection of all things and intelligent systems, focusing on the R&D, design and development, sells services and solution output of high-tech enterprises of special cables, wire harnesses and connectors, widely for solar photovoltaic, wind power generation, new energy vehicles, AI robots, high-end medical, high-end equipment manufacturing, aerospace, 5G and communication electronics and other industries to provide supporting products and technical support, jointly promote the development of strategic emerging industrial clusters new heights。

Haerkn New Energy is an industrial chain group company, headquartered in Dongguan, with manufacturing bases in Dongguan and Ganzhou. The company has a rich product system, efficient production line, strict quality management system, excellent engineering research and development strength, as well as automation supporting equipment and digital management system, forming a technology-led, industrial support, process coordination, complete supporting industry chain, to provide customers with stable product quality, fast response speed。

Haerkn New Energy has rich experience in lean manufacturing, has formed a management certification system based on ISO 9001:2016, ISO 14001:2015 and IATF 16949:2016, and has international safety regulations centered on UL, CUL, VDE and TüV. Certification, the products cover silicone wire, PVC wire, XLPE wire, Teflon wire, shielded wire, photovoltaic wire, charging pile wire, connector, etc., which are widely used in automobile/new energy vehicle, charging pile, photovoltaic, energy storage, robot , medical and other business fields, providing stable, safe, energy-saving, and convenient products and solutions for all application scenarios。

We are adhering to the core values of "creating value for customers as the core, achieving win-win results for partners as the cornerstone, taking entrepreneurial spirit as the driving force, and pursuing self-examination, self-discipline, self-improvement as the belief", and practicing "scientific and technological innovation, promoting industrial transformation" Enterprises Mission, committed to joining hands with more partners to connect the world and imagine the future。

工厂一览 Factory Show



合作伙伴 Partners

ABB

德昌电机

优优绿能

中航光电

西门子

光伏线

PHOTOVOLTAIC CABLE

适用范围：

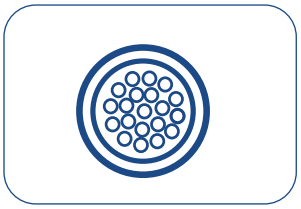
适用于光伏组件与组件之间的串联，组串之间及组串至汇流箱之间的并联，汇流箱至逆变器之间的连接。

Application scope:
Suitable for series connection between photovoltaic components, parallel connection between string and string, and connection between string and combiner box, and connection between combiner box and inverter.

产品结构示意图

光伏线特点

FEATURES OF PHOTOVOLTAIC CABLE



镀锡纯铜，更稳定

Tin-plated pure copper, stable

铜芯表面采用镀锡工艺，抗氧化，不易生锈。高纯度、高导电率，低损耗，超强负载能力，持久稳定。

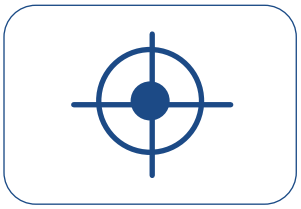
The surface of the copper core is tin-plated, anti-oxidation, not easy to rust. high purity, high conductivity, low loss, ultra-strong load-bearing capacity, durable and stable.

双重绝缘，更安全

Double insulation, safer

护套和绝缘层使用交联聚乙烯材料，经辐照处理，韧性强，不易折断，不易燃烧。

The jacket and insulation layer use cross-linked polyethylene insulation materials, which are irradiated for treatment, have strong toughness, not easy to break, not easy to ignite.



产品偏心率低

Low product eccentricity

实心挤压包裹，低偏心率，厚薄均匀，防电流击穿，保障用电安全。

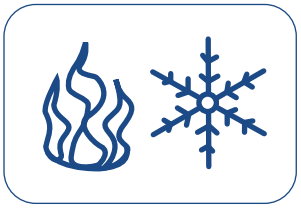
The solid extrusion is wrapped, with low eccentricity, uniform thickness, and protection against current breakdown, ensuring electrical safety.

UL/TüV 官方认证

UL/TüV official certification

产品严格按照官方标准生产，杜绝粗制滥造，品质更放心。

The product is produced strictly according to official standards, eliminating rough and crude production, and the quality is more reassuring.



耐高温、耐寒及耐酸碱

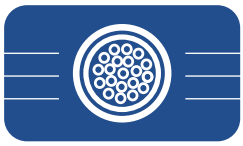
High-temperature, cold and acid-alkali resistance

环境温度 -40℃～+90 ℃，导体最高温度 120 ℃，最高使用年限为 25 年，能够应付各种极端恶劣环境。

The environmental temperature is -40℃～+90℃, the highest temperature of the conductor is 120℃, and the maximum service life is 25 years, capable of dealing with various extreme harsh environments.

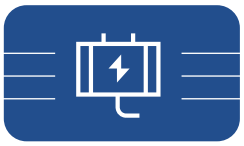
PV1-F 光伏线规格

PV1-F PHOTOVOLTAIC CABLE SPECIFICATIONS



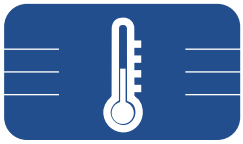
结构
Structure

导　体 Conductor： IEC60228 5 类绞合镀锡铜 Class 5 stranded tinned copper
绝　缘 Insulation： XLPE
护　套 Jacket： XLPE



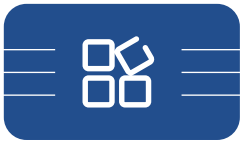
电气性能
Electrical Performance

额定电压 Rated voltage： 0.6/1.0KV（U0/U）
测试电压 Test voltage： AC6.5KV or DC15KV，5min



热性能
Thermal performance

环境温度 Ambient temperature： -40℃—+90℃
最高导体温度 Max conductor temperature： +120℃
最大短路温度 Max short circuit temperature： +250℃，5S



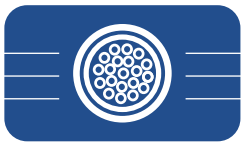
其他
Other

弯曲半径 Bending radius： ≥ 4xΦ(Φ 为直径 Diameter)
颜　色 Color： 红色 Red、黑色 Black
认　证 Certification： TÜV Rheinland 2 PFG 1169/08.2007

导体 (Conductor)			绝缘体 (Insulator)		被覆 (Jacket)		电气特性 (Electrical Characteristic)	包装 (Packing)
截面 mm²	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) mm	绝缘外径 (Insulator diameter) φmm	被覆厚度 (Jacket Thick) /mm	完成外径 (Over Diameter) Φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
1.5	30/0.254	1.61	0.60	3.0	0.66	4.6	13.7	300
2.5	50/0.254	2.07	0.60	3.6	0.66	5.2	8.21	300
4.0	57/0.30	2.62	0.61	4.05	0.66	5.6	5.09	200
6.0	84/0.30	3.50	0.62	4.8	0.66	6.4	3.39	200
10	84/0.39	4.60	0.65	6.2	0.66	7.8	1.95	100
16	133/0.39	5.80	0.80	7.6	0.68	9.2	1.24	100
25	210/0.39	7.30	0.92	9.5	0.70	11.5	0.795	100
35	294/0.39	8.70	1.0	11.0	0.75	13.0	0.565	100

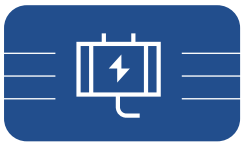
UL4703 光伏线规格

UL4703 PHOTOVOLTAIC CABLE SPECIFICATIONS



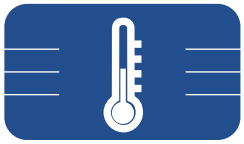
结构
Structure

导　体 Conductor： ASTM B33 镀锡退火软铜线 Tinned annealed soft copper wire
绝　缘 Insulation： XLPE
护　套 Jacket： XLPE



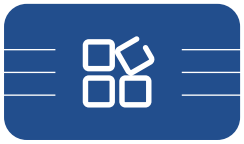
电气性能
Electrical Performance

额定电压 Rated voltage： 600V、1000V 或 2000V
测试电压 Test voltage： AC3.0KV，1min



热性能
Thermal performance

环境温度 Ambient temperature： -40℃—+90℃
最高导体温度 Max conductor temperature： +125℃
最大短路温度 Max short circuit temperature： +200℃，5S



其他
Other

弯曲半径 Bending radius： ≥ 4xΦ(Φ 为直径 Diameter)
颜　色 Color： 红色 Red、黑色 Black
认　证 Certification： UL 4703-2014

导体 (Conductor)			绝缘体 (Insulator)		被覆 (Jacket)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) mm	绝缘外径 (Insulator diameter) φmm	被覆厚度 (Jacket Thick) /mm	完成外径 (Over Diameter) Φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
18	16/0.254	1.18	1.52	4.3	0.76	4.6	23.2	/
16	26/0.254	1.5	1.52	4.6	0.76	5.2	14.6	/
14	41/0.254	1.88	1.52	5.0	0.76	6.6	8.96	/
12	65/0.254	2.36	1.52	5.45	0.76	7.1	5.64	/
10	105/0.254	3.0	1.52	6.1	0.76	7.7	3.546	/
8	168/0.254	4.2	1.78	7.8	0.76	9.5	2.813	/
6	266/0.254	5.4	1.78	8.8	0.76	10.5	2.23	/
4	420/0.254	6.6	1.78	10.4	0.76	12.0	1.768	/
2	665/0.254	8.3	1.78	12.0	0.76	14.0	1.403	/
1	836/0.254	9.4	2.28	14.0	0.76	16.2	1.113	/
1/0	1045/0.254	10.5	2.28	15.2	0.76	17.5	0.882	/
2/0	1330/0.254	11.9	2.28	16.5	0.76	19.5	0.6996	/
3/0	1672/0.254	13.3	2.28	18.0	0.76	21.0	0.5548	/
4/0	2109/0.254	14.9	2.28	19.5	0.76	23.0	0.4398	/

光伏线束

PHOTOVOLTAIC HARNESS

适用范围：适用于太阳能组件、阵列、逆变器等光伏系统之间的互连。

Application scope: applicable to interconnection between photovoltaic systems such as solar components, arrays, inverters, etc.

光伏线束特点 Characteristics Of Photovoltaic Harness

匹配 2.5 mm² (14AWG) /4.0 mm² (12AWG) /6.0mm² (10AWG) 等多种光伏线缆，可任意定制长度。
Compatible With 2.5 mm² (14AWG) / 4.0 mm² (12AWG) / 6.0 mm² (10AWG) And Other Types Of Photovoltaic Cables, And Can Be Customized To Any Length.

采用标准 MC4 接头，可匹配多种 MC4 系列连接器。
Uses standard MC4 connectors, compatible with various MC4 series connectors.

MC4 接头选用 PPO 优质绝缘材料，耐热性强，阻燃性能好，耐寒耐腐蚀抗 UV。
MC4 connectors use high-quality PPO insulation materials, with strong heat resistance, good flame retardancy, cold and corrosion resistance and UV resistance.

MC4 接头采用自锁结构，开合自如，插拔方便，长久使用不松动。加厚镀锡紫铜内芯，导电性更强。
MC4 connectors use a self-locking structure, open and close easily, and are convenient to insert and extract, and will not loosen after long-term use. The thick tin-plated copper core has stronger conductivity.

采用防水结构设计，优选防水胶圈，最高 IP68 防水等级，防水更防尘。
Uses waterproof structure design, selects waterproof gaskets, and has the highest IP68 waterproof rating, which is more waterproof and dustproof.

可选多种线束类型，包括光伏延长线束、T/Y 型线束，以满足不同场景需求。
A variety of wiring harness types are available, including photovoltaic extension harnesses and T/Y harnesses, to meet the needs of different scenarios.

产品参数 Product parameters

连接器绝缘材料 Insulating material	**PPO**	**连接器导体材料** Conductor material	**镀锡紫铜** Tinned copper
额定电压 Rated voltage	1500V DC	额定电流 Rated Current	30A
接触电阻 Contact resistance	≤ 0.5 mΩ	安全等级 Safety Degree	Class II
抗拉力 Tension resistance	100N	温度范围 Temperature Rating	- 40 ℃ ~ + 85 ℃
电缆截面积 mm2	1*2.5 ~ 6mm²	防护等级 Protection Degree	IP67
阻燃等级 Flame Class	UL94-V0	连接器认证 Certification	IEC 62852

光伏线束展示

PHOTOVOLTAIC HARNESS DISPLAY

光伏延长线束 Photovoltaic extension harness

T/Y 线束 T/Y harness

一拖二 Y 型线束
One-to-Two Y Harness

一拖三 Y 型线束
One-to-Three Y Harness

一拖四 Y 型线束
One-to-Four Y Harness

一拖二 T 型线束
One-to-Two T Harness

储能线束

ENERGY STORAGE HARNESS

适用范围：适用于蓄电池之间、电池模组之间、电池簇之间、电池簇与变流器等之间的连接。

Application scope: Suitable for connections between batteries, battery modules, battery clusters, and between battery clusters and converters, etc.

储能线束特点 Characteristics of Energy storage harness

采用标准认证线材连接，截面积从 2.5-120 mm² 不等，可任意定制长度。

It is connected with standard certified wire, with sectional area ranging from 2.5-120 mm², and can be customized in any length.

搭配不同端子形成不同的组合（MC4+ 镀锡铜端子 /XT60、储能连接器 + 镀锡铜端子等），满足不同场景需求。

Different combinations can be formed with different terminals (MC4 + Tinned copper terminals / XT60, energy storage connectors + Tinned copper terminals), meeting the needs of various scenarios.

用于储能变流器、储能蓄电池、储能电池模组、便携储能设备的连接。

Used for connecting energy storage inverters, energy storage batteries, energy storage battery modules, and portable energy storage devices.

可靠性高、能耗低、承载能力强，寿命长，传输性能稳定。

High reliability, low energy consumption, strong carrying capacity, long lifespan, and stable transmission performance.

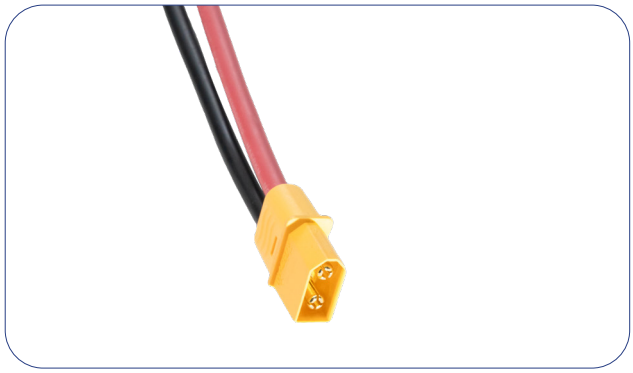
储能电池线束：用于光伏逆变器与储能电池间的连接

Energy storage battery harness: Used for connection between photovoltaic inverter and energy storage battery.

绝缘材料 Insulating material	连接器 connector: PPO 线材 wire: XLPE	**端子型号 Terminal Model**	RNB 10-6
额定电压 Rated voltage	1500V DC	**额定电流 Rated Current**	30A
温度范围 Temperature Rating	- 40 ℃ ~ + 85 ℃	**阻燃等级 Flame Class**	UL94-V0
防护等级 Protection Degree	IP67	**适配线缆 Adapter cable（mm²）**	2.5-6mm²

便携储能线束：用于连接便携太阳能电池板与便携储能设备

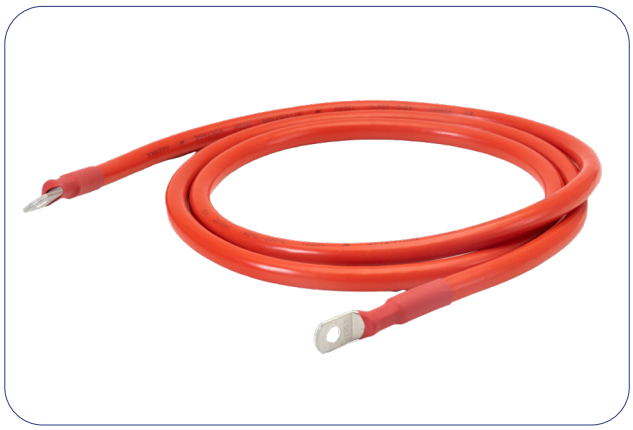
Portable energy harness: used to connect portable solar battery panels and portable energy storage devices.

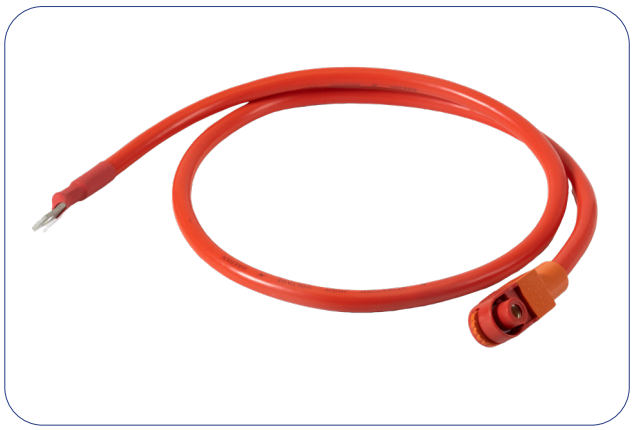


XT60 连接头 :XT60 Connection header			
瞬时电流 Instantaneous current	60A	**额定电流 Rated Current**	30A
接触电阻 Contact resistance	0.55MΩ	**额定电压 Rated voltage**	DC 500V
阻燃等级 Flame Class	UL94-V0	**绝缘材质 Insulating material**	PA
金属材质 Metal material	铜镀金 copper gold-plated	**温度范围 Temperature Rating**	-20℃ -120℃
线缆部分：Cable part			
材质 material	XLPE	**电压 voltage**	≤ 36V
电流 Current	≤ 30A	**横截面 mm²**	2.5mm² (84/0.3TS)
直径 Diameter	5.2mm	**线材长度 Wire length**	可定制 customized

电池储能线束：用于连接储能电池

Battery energy storage cable harness: used for connecting energy storage battery .





规格

最大可承受 1500V DC 电压，并提供 50-350A 多种电流规格。
Can withstand a maximum of 1500V DC voltage and provide various current specifications from 50-350A.

保护

储能连接器防误插 / 颜色防错设计，防触保护，提供更高的安装保护。
Energy storage connector anti-misplug/color error-proof design,touch protection,and higher installation protection.

布线

储能连接器可实现 360°旋转，满足不同客户布线需求。
Energy storage connector Can be rotated 360° to meet different customer wiring requirements.

支持

支持连接不同端子或储能连接器。
Supports connection to different terminals or energy storage connectors.

横截面 mm²	25mm²	导体 Conductor	798/0.2AS	线材护套 Wire sheath	硅胶 SR
额定电压 Rated voltage	1500V	温度范围 Temperature	-40℃ -+200℃	端子 Terminal	SC25-6
额定电流 Rated Current	50-350A（根据线材规格来定） According to wire specification		储能连接器 Energy storage connector	90°弯头 elbow	

UL Style 3614 EPDM 绝缘线

技术参数 Specification

额定电压 Rated voltage： 1000V
额定温度 Rated temperature： 125℃

规格范围 Specification range

导体规格 Conductor size: 26AWG ~ 500kcmil
顏色 Color： 根据客户要求订做 Same as customer requirements.
芯数 Core： 1 芯 1 Core.

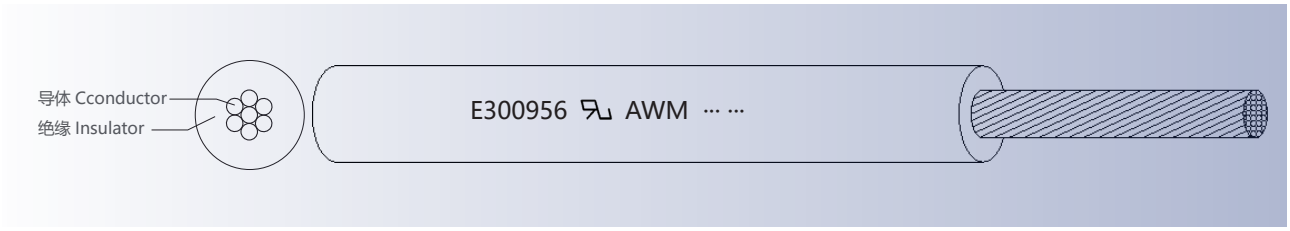
适用范围 Application

适用于各种太阳能光伏发电系统、太阳能逆变器之连接配线。
Widely used for solar connector and solar power system, PV inverters, etc...

参考标准 Standard

UL 758/1581

结构简易图 Structure



导体 (Conductor)			绝缘体 (Insulator)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) /mm	完成外径 (Insulator diameter) / φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
26	7/0.16	0.49	1.14	2.77	150	610
24	7/0.20	0.61	1.14	2.89	94.20	610
22	17/0.16	0.76	1.14	3.04	59.40	610
20	20/0.18	0.93	1.14	3.21	36.70	610
18	16/0.254	1.17	1.14	3.45	23.20	305
16	26/0.254	1.50	1.14	3.78	14.60	305
14	41/0.254	1.88	1.14	4.16	8.96	305
12	65/0.254	2.37	1.14	4.65	5.64	100
10	105/0.254	3.00	1.14	5.28	3.546	100
8	168/0.254	4.15	1.52	7.19	2.230	100
6	266/0.254	5.20	1.52	8.24	1.403	100

UL Style 3817 XLPE 绝缘线

技术参数
Specification

额定电压 Rated voltage： AC 3000V
额定温度 Rated temperature： -40~125℃

规格范围
Specification range

导体规格 Conductor size: 30AWG ~ 2000kcmil
顏色 Color： 根据客户要求订做 Same as customer requirements.
芯数 Core： 1 芯 1 Core.

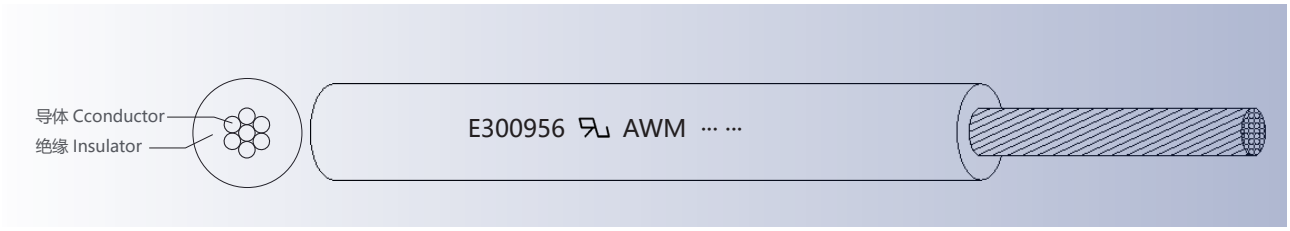
适用范围
Application

适用于各种太阳能光伏发电系统、太阳能逆变器之连接配线。
Widely used for solar connector and solar power system, PV inverters, etc...

参考标准
Standard

UL 758/1581

结构简易图 Structure



导体 (Conductor)			绝缘体 (Insulator)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) /mm	完成外径 (Insulator diameter) / φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
30	7/0.10	0.31	0.76	1.85	381.00	610
28	7/0.12	0.37	0.76	1.90	239.00	610
26	7/0.16	0.49	0.76	2.05	150.00	610
24	11/0.16	0.61	0.76	2.15	94.20	610
22	17/0.16	0.76	0.76	2.30	59.40	610
20	20/0.18	0.93	0.76	2.45	36.70	610
18	41/0.16	1.18	0.76	2.70	23.20	610
16	26/0.254	1.50	0.76	3.05	14.60	305
14	41/0.254	1.88	0.76	3.40	8.96	305
12	65/0.254	2.37	0.76	3.90	5.64	200
10	105/0.254	3.01	0.76	4.60	3.546	100
8	168/0.254	4.15	1.14	6.50	2.23	100
6	266/0.254	5.20	1.52	8.30	1.403	100
4	420/0.254	6.55	1.52	9.60	0.882	100

UL Style 3820 XLPE 绝缘线

技术参数 Specification

额定电压 Rated voltage： AC 1000V
额定温度 Rated temperature： -40~125℃

规格范围 Specification range

导体规格 Conductor size: 30AWG ~ 2000kcmil
顏色 Color： 根据客户要求订做 Same as customer requirements.
芯数 Core： 1 芯 1 Core.

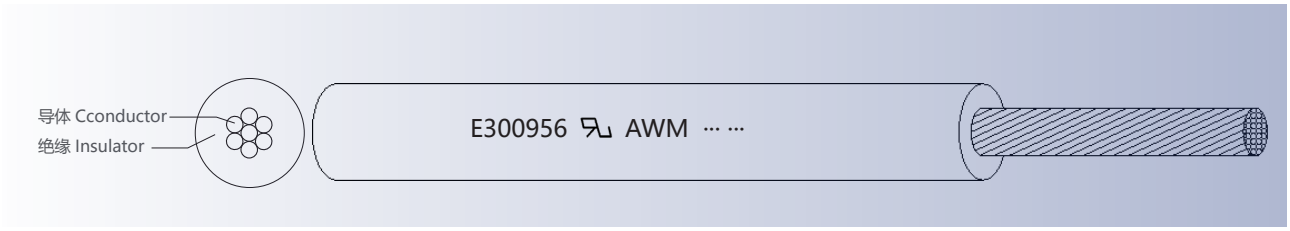
适用范围 Application

适用于各种太阳能光伏发电系统、太阳能逆变器之连接配线。
Widely used for solar connector and solar power system, PV inverters, etc...

参考标准 Standard

UL 758/1581

结构简易图 Structure



导体 (Conductor)			绝缘体 (Insulator)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) /mm	完成外径 (Insulator diameter) / φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
30	7/0.10	0.31	0.76	1.85	381.00	610
28	7/0.12	0.37	0.76	1.90	239.00	610
26	7/0.16	0.49	0.76	2.05	150.00	610
24	11/0.16	0.61	0.76	2.15	94.20	610
22	17/0.16	0.76	0.76	2.30	59.40	610
20	20/0.18	0.93	0.76	2.45	36.70	610
18	41/0.16	1.18	0.76	2.70	23.20	610
16	26/0.254	1.50	0.76	3.05	14.60	305
14	41/0.254	1.88	0.76	3.40	8.96	305
12	65/0.254	2.37	0.76	3.90	5.64	200
10	105/0.254	3.01	0.76	4.60	3.546	100
8	168/0.254	4.15	1.14	6.50	2.23	100
6	266/0.254	5.20	1.52	8.30	1.403	100
4	420/0.254	6.55	1.52	9.60	0.882	100

UL Style 10086 ETFE 绝缘线

技术参数
Specification

额定电压 Rated voltage： 600V
额定温度 Rated temperature： 150&200℃

规格范围
Specification range

导体规格 Conductor size: 36AWG ~ 4/0AWG
顏色 Color： 根据客户要求订做 Same as customer requirements.
芯数 Core： 1 芯 1 Core.

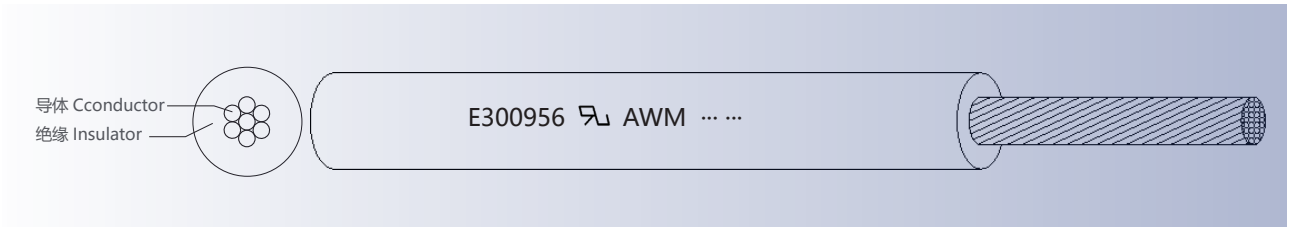
适用范围
Application

适用于各种家用电器、照明灯具、工业机器、仪器仪表等配线。
Widely used for headlamp, home appliance, industrial machine, instrument products. etc...

参考标准
Standard

UL 758/1581

结构简易图 Structure



导体 (Conductor)			绝缘体 (Insulator)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) /mm	完成外径 (Insulator diameter) / φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
30	7/0.10	0.31	0.25	0.81	381.00	610
28	7/0.12	0.37	0.25	0.87	239.00	610
26	7/0.16	0.49	0.25	0.99	150.00	610
	19/0.10	0.50	0.25	1.00		
24	7/0.20	0.61	0.25	1.11	94.2	610
	19/0.12	0.60	0.25	1.10		
22	7/0.25	0.76	0.25	1.26	59.4	610
	19/0.15	0.76	0.25	1.26		
20	7/0.31	0.95	0.51	1.45	36.7	610
	19/0.19	0.96	0.25	1.46		
18	7/0.39	1.19	0.27	1.73	23.2	305
	19/0.235	1.18	0.27	1.72		
16	7/0.50	1.53	0.30	2.13	14.6	305
	19/0.30	1.51	0.30	2.11		
14	19/0.37	1.86	0.32	2.50	8.96	305
12	19/0.46	2.32	0.38	3.08	5.64	100
10	37/0.45	3.16	0.38	3.92	3.546	100

UL Style 10269 PVC 绝缘线

技术参数 Specification

额定电压 Rated voltage： 1000V
额定温度 Rated temperature： 80&90&105℃

规格范围 Specification range

导体规格 Conductor size: 30AWG ~ 2000kcmil
颜色 Color： 根据客户要求订做 Same as customer requirements.
芯数 Core： 1 芯 1 Core.

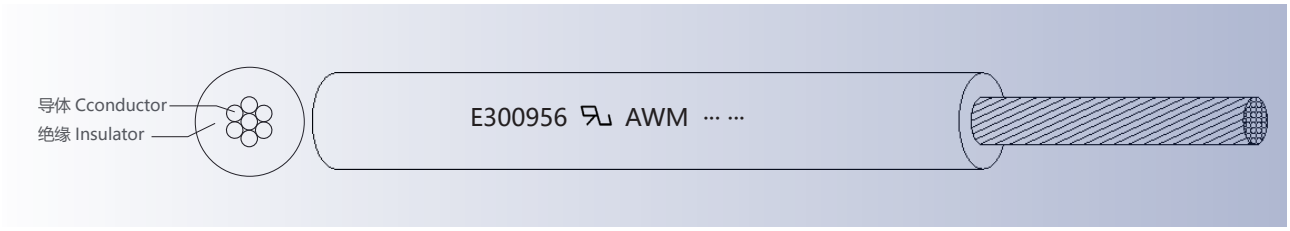
适用范围 Application

适用于各种太阳能光伏发电系统、太阳能逆变器之连接配线。
Widely used for solar connector and solar power system, PV inverters, etc...

参考标准 Standard

UL 758/1581

结构简易图 Structure



导体 (Conductor)			绝缘体 (Insulator)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) /mm	完成外径 (Insulator diameter) / φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
30	7/0.10	0.31	0.76	1.83	381.00	610
28	7/0.12	0.37	0.76	1.89	239.00	610
26	7/0.16	0.49	0.76	2.01	150.00	610
24	11/0.16	0.61	0.76	2.13	94.20	610
22	17/0.16	0.76	0.76	2.28	59.40	610
20	20/0.18	0.93	0.76	2.45	36.70	610
18	41/0.16	1.18	0.76	2.70	23.20	305
16	26/0.254	1.50	0.76	3.02	14.60	305
14	41/0.254	1.88	0.76	3.40	8.96	305
12	65/0.254	2.37	0.76	3.89	5.64	100
10	105/0.254	3.00	0.76	4.52	3.546	100

UL Style 11627 PVC 绝缘线

技术参数 Specification

额定电压 Rated voltage： AC 2000V
额定温度 Rated temperature： 105℃

规格范围 Specification range

导体规格 Conductor size: 30AWG ~ 2000kcmil
顏色 Color： 根据客户要求订做 Same as customer requirements.
芯数 Core： 1 芯 1 Core.

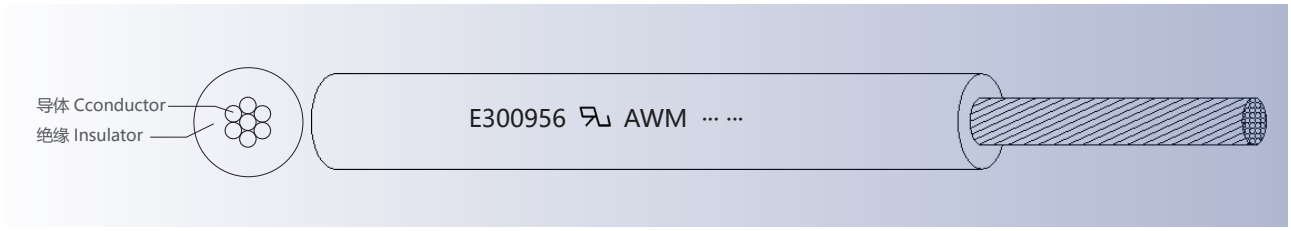
适用范围 Application

适用于各种太阳能光伏发电系统、太阳能逆变器之连接配线。
Widely used for solar connector and solar power system, PV inverters, etc...

参考标准 Standard

UL 758/1581

结构简易图 Structure



导体 (Conductor)			绝缘体 (Insulator)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) /mm	完成外径 (Insulator diameter) / φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
30	7/0.10	0.31	0.76	1.85	381.00	610
28	7/0.12	0.37	0.76	1.90	239.00	610
26	7/0.16	0.49	0.76	2.05	150.00	610
24	11/0.16	0.61	0.76	2.15	94.20	610
22	17/0.16	0.76	0.76	2.30	59.40	610
20	20/0.18	0.93	0.76	2.45	36.70	610
18	41/0.16	1.18	0.76	2.70	23.20	610
16	26/0.254	1.50	0.76	3.05	14.60	305
14	41/0.254	1.88	0.76	3.40	8.96	305
12	65/0.254	2.37	0.76	3.90	5.64	200
10	105/0.254	3.01	0.76	4.60	3.546	100
8	168/0.254	4.15	1.14	6.50	2.23	100
6	266/0.254	5.20	1.52	8.30	1.403	100
4	420/0.254	6.55	1.52	9.60	0.882	100

UL Style 3577 SR 绝缘线

技术参数 Specification

额定电压 Rated voltage： AC 3000V
额定温度 Rated temperature： 150℃

规格范围 Specification range

导体规格 Conductor size: 26AWG ~ 2AWG
顏色 Color： 根据客户要求订做 Same as customer requirements.
芯数 Core： 1 芯 1 Core.

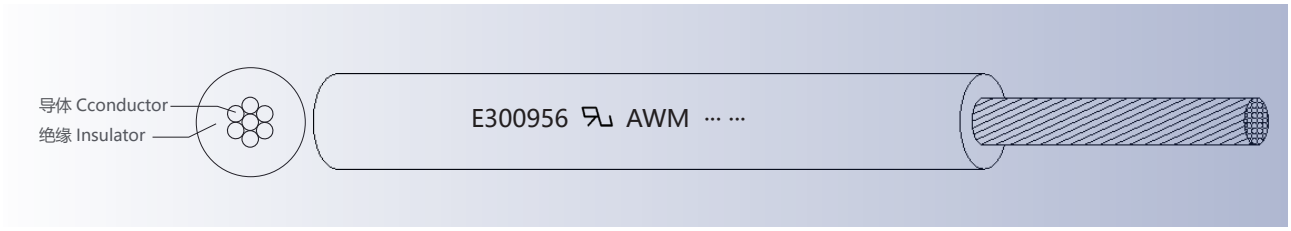
适用范围 Application

适用于各种太阳能光伏发电系统、太阳能逆变器之连接配线。
Widely used for solar connector and solar power system, PV inverters, etc...

参考标准 Standard

UL 758/1581

结构简易图 Structure



导体 (Conductor)			绝缘体 (Insulator)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) /mm	完成外径 (Insulator diameter) / φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
30	7/0.10	0.31	0.76	1.85	381.00	610
28	7/0.12	0.37	0.76	1.90	239.00	610
26	7/0.16	0.49	0.76	2.05	150.00	610
24	11/0.16	0.61	0.76	2.15	94.20	610
22	17/0.16	0.76	0.76	2.30	59.40	610
20	20/0.18	0.93	0.76	2.45	36.70	610
18	41/0.16	1.18	0.76	2.70	23.20	610
16	26/0.254	1.50	0.76	3.05	14.60	305
14	41/0.254	1.88	0.76	3.40	8.96	305
12	65/0.254	2.37	0.76	4.00	5.64	200
10	105/0.254	3.01	0.76	5.10	3.546	100
8	168/0.254	4.15	1.14	6.50	2.23	100
6	266/0.254	5.20	1.52	8.30	1.403	100
4	420/0.254	6.55	1.52	9.60	0.882	100

UL Style 3640 SR 绝缘线

技术参数
Specification

额定电压 Rated voltage： AC 1100V
额定温度 Rated temperature： 150&180℃

规格范围
Specification range

导体规格 Conductor size: 16AWG ~ 600kcmil
顏色 Color： 根据客户要求订做 Same as customer requirements.
芯数 Core： 1 芯 1 Core.

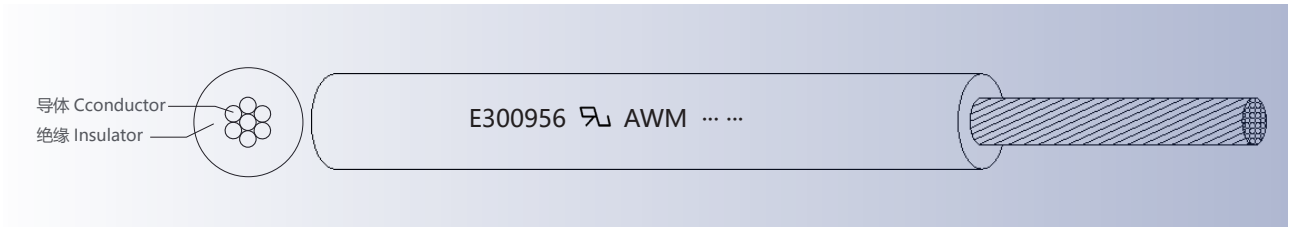
适用范围
Application

适用于各种太阳能光伏发电系统、太阳能逆变器之连接配线。
Widely used for solar connector and solar power system, PV inverters, etc...

参考标准
Standard

UL 758/1581

结构简易图 Structure



导体 (Conductor)			绝缘体 (Insulator)		电气特性 (Electrical Characteristic)	包装 (Packing)
线号 AWG	线粒 / 线径 (Comps.nx) φmm	直径 (Diameter) φmm	绝缘厚度 (Insulation Thick) /mm	完成外径 (Insulator diameter) / φmm	导体电阻 (Realest, max Cue, c 20 ° C) Ohm/km	米 / 卷 Mt/coils
30	7/0.10	0.31	0.76	2.90	381.00	305
28	7/0.12	0.37	0.76	3.00	239.00	305
26	7/0.16	0.49	0.76	3.10	150.00	305
24	11/0.16	0.61	0.76	3.20	94.20	305
22	17/0.16	0.76	0.76	3.30	59.40	305
20	20/0.18	0.93	0.76	3.50	36.70	305
18	41/0.16	1.18	0.76	3.80	23.20	305
16	26/0.254	1.50	0.76	4.10	14.60	305
14	41/0.254	1.88	0.76	4.50	8.96	305
12	65/0.254	2.37	0.76	5.00	5.64	200
10	105/0.254	3.01	0.76	5.60	3.546	100
8	168/0.254	4.15	1.14	6.70	2.23	100
6	266/0.254	5.20	1.52	7.80	1.403	100
4	420/0.254	6.55	1.52	9.10	0.882	100

UL 认证型号

UL CERTIFIED MODEL

单芯热塑性绝缘线

Single-conductor ,thermoplastic insulation

1007	1213	1610	1863	10086	10316
1013	1226	1617	1864	10088	10331
1015	1227	1643	1867	10101	10337
1017	1233	1644	1882	10102	10345
1019	1235	1671	1886	10107	10362
1024	1237	1672	1887	10109	10368
1026	1239	1674	1896	10110	10369
1028	1283	1680	1897	10111	10370
1032	1330	1683	1900	10125	10485
1037	1331	1707	1901	10129	10486
1039	1332	1708	1927	10141	10491
1041	1333	1709	1929	10168	10495
1043	1371	1710	1930	10183	10503
1053	1430	1716	1933	10192	10507
1054	1431	1723	1968	10198	10511
1055	1497	1726	1983	10203	10516
1056	1500	1727	1988	10212	10517
1057	1505	1759	1989	10236	10518
1058	1516	1814	2462	10237	10556
1059	1517	1815	10007	10241	10635
1060	1538	1825	10012	10267	10637
1074	1557	1827	10024	10269	10974
1076	1569	1828	10045	10271	11122
1078	1571	1829	10050	10277	11141
1080	1577	1839	10053	10278	11150
1095	1581	1857	10064	10279	11343
1099	1589	1858	10066	10302	11627
1103	1591	1859	10070	10308	11796
1174	1592	1860	10072	10314	11803
1180	1609	1862	10076	10315	

UL 认证型号

UL CERTIFIED MODEL

多芯热塑性绝缘线

Multiple-conductor ,thermoplastic insulation

2464	2877	20314	21143	21281	21306
2468	2957	20850	21186	21286	21307
2800	20288	21088	21265	21305	21339

单芯热固性绝缘线

Single-conductor ,thermoset insulation

3071	3194	3312	3435	3569	3690
3122	3195	3316	3436	3577	3724
3123	3196	3318	3440	3581	3773
3125	3199	3320	3456	3586	3816
3132	3210	3321	3487	3594	3817
3133	3231	3323	3491	3596	3820
3135	3239	3331	3492	3597	3886
3138	3266	3343	3495	3598	3929
3144	3271	3344	3496	3607	3932
3148	3272	3346	3502	3614	3983
3149	3286	3347	3505	3635	3984
3160	3287	3348	3512	3639	30001
3161	3288	3351	3513	3640	30045
3162	3289	3352	3529	3644	30056
3167	3290	3361	3530	3646	30067
3171	3296	3386	3535	3657	30106
3172	3297	3389	3536	3666	
3173	3298	3401	3564	3668	
3180	3301	3408	3566	3670	
3182	3305	3424	3567	3682	

资质认证

QUALIFICATION CERTIFICATION


intertek
Total Quality. Assured.

CERTIFICATE
OF REGISTRATION

This is to certify that the management system of:

Guangdong Haerkn New Energy Co., Ltd.

No. 383, Manfeng Group, Dani Village, Shatian Town, Dongguan, Guangdong Province, P. R. China

has been registered by Intertek as conforming to the requirements of:

IATF 16949:2016

The management system is applicable to:

Design and manufacture of wires

Permissible exclusions include: None

IATF Certificate Number: 0450719
Certificate Number: 2022-0437
Certificate Issue Date: 26 May 2022
Certificate Expiry Date: 25 May 2025

Colin Moldovean
President, Business Assurance

Intertek – 4700 Broadmoor, Suite 200, Kentwood MI 49512, USA


intertek
Total Quality. Assured.

CERTIFICATE
OF REGISTRATION

This is to certify that the management system of:

Guangdong Haerkn New Energy Co., Ltd.

No. 383, Manfeng Group, Dani Village, Shatian Town, Dongguan, Guangdong Province, P. R. China

has been registered by Intertek as conforming to the requirements of:

ISO 14001:2015

The management system is applicable to:

Design and manufacture of wires (Except for CCC product requirements)

Unified Social Credit Identifier: 91441900782979115
Certificate Number: 122204005
Initial Certification Date: 28 April 2022
Date of Certification Decision: 28 April 2022
Issuing Date: 28 April 2022
Valid Until: 27 April 2025

Colin Moldovean
President, Business Assurance

Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.


intertek
Total Quality. Assured.

CERTIFICATE
OF REGISTRATION

This is to certify that the management system of:

Guangdong Haerkn New Energy Co., Ltd.

No. 383, Manfeng Group, Dani Village, Shatian Town, Dongguan, Guangdong Province, P. R. China

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

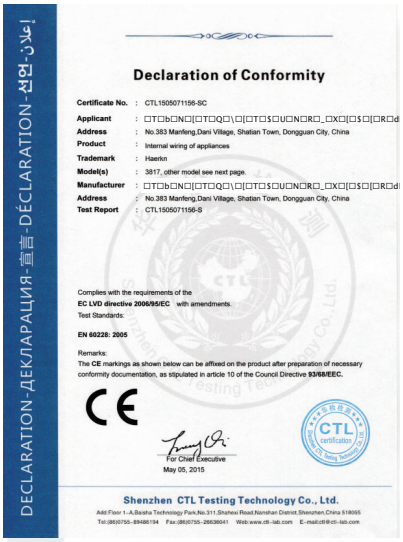
Design and manufacture of wires

Unified Social Credit Identifier: 91441900782979115
Certificate Number: 112203007
Initial Certification Date: 26 May 2022
Date of Certification Decision: 26 May 2022
Issuing Date: 26 May 2022
Valid Until: 25 May 2025

Colin Moldovean
President, Business Assurance

Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.


DECLARATION-ДЕКЛАРАЦИЯ-宣言-DÉCLARATION-선명-إعلان

Declaration of Conformity

Certificate No. : CTL1505071156-SC
Applicant : □T□b□N□|□T□Q□\□|□T□S□U□N□R□_□X□|□S□|□R□d
Address : No.383 Manfeng,Dani Village, Shatian Town, Dongguan City, China
Product : Internal wiring of appliances
Trademark : Haerkn
Model(s) : 3817, other model see next page.
Manufacturer : □T□b□N□|□T□Q□\□|□T□S□U□N□R□_□X□|□S□|□R□d
Address : No.383 Manfeng,Dani Village, Shatian Town, Dongguan City, China
Test Report : CTL1505071156-S

Complies with the requirements of the
EC LVD directive 2006/95/EC with amendments.
Test Standards:

EN 60228: 2005

Remarks:
The CE markings as shown below can be affixed on the product after preparation of necessary conformity documentation, as stipulated in article 10 of the Council Directive 93/68/EEC.

CE

For Chief Executive
May 05, 2015

Shenzhen CTL Testing Technology Co., Ltd.
Add:Floor 1-A,Basha Technology Park,No.311,Shahexi Road,Nanshan District,Shenzhen,China 518055
Tel:(86)0755- 89486194 Fax:(86)0755- 26636041 Web:www.ctl-lab.com E-mail:ctl@ctl-lab.com


Zertifikat Certificate

TÜVRheinland

Zertifikat Nr. Certificate No. R 50218805 Blatt Page 0001

Ihr Zeichen Client Reference H.L. Unser Zeichen Our Reference 05-LY- 16031152 001 Ausstellungsdatum Date of Issue (day/mo/yr) 28.12.2011

Genehmigungsinhaber License Holder
Dongguan Huakun Electric Co., Ltd.
Gangxia Chigang Industrial Estate
Humen Town
Dongguan, Guangdong 523921
P.R. China

Fertigungsstätte Manufacturing Plant
Dongguan Huakun Electric Co., Ltd.
Gangxia Chigang Industrial Estate
Humen Town
Dongguan, Guangdong 523921
P.R. China

Prüfzeichen Test Mark
• SMART • QUALITY • TYPE APPROVED

Geprüft nach Tested acc. to
2 PfG 1169/08.07

Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)
PV-Leitungen (Cables for Photovoltaic-System)

Lizenzentgelte - Einheit License Fee - Unit

Type Designation : PV1-F 1X1,5...35mm² 12
Rated Voltage : AC 0o/U 0,6/1kV
DC 1,8kV (conductor-conductor, mnn earthed system, circuit not under load)
Ambient Temperature: -40°C to +90°C
Max.Temperature at Conductor : 120°C

The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.

12

ANLAGE (Appendix): 1.0

Zertifizierstelle

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49)2158 06 - 15 71 e-mail: cert-vde@de.tuv.com
Fax: (+49)2158 06 - 39 55 http://www.tuv.com/safety

G. Yin


CERTIFICATE OF COMPLIANCE

Certificate Number 20190315-E503565
Report Reference E503565-20190312
Issue Date 2019-MARCH-15

Issued to: GUANGDONG HAERKN NEW ENERGY CO LTD
383 MANFENG, DANI VLG, SHATIAN TOWN
DONGGUAN, GUANGDONG 523993 CHINA

This certificate confirms that representative samples of COMMUNICATIONS CABLE
Communications Cables, Type CMP, rated 105°C.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 444 Communications Cables
CSA C22.2 No. 214-17 Communications Cables
Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Page 1 of 1


VDE Prüf- und Zertifizierungsinstitut

GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG
CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

Guangdong Haerkn
New Energy Co., Ltd.
No. 383 Manfeng, Dani Village,
Shatian Town
523993 Dongguan City
Guangdong China
ist berechtigt, für ihr Produkt /
is authorized to use for their product

PFA-Verdrahtungsleitung, doppelt isoliert
PFA single core non sheathed cable for internal wiring, double-insulated

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

<1 VDE-REG 8092 1>

Geprüft und zertifiziert nach /
Tested and certified according to

DIN 57250 Teil 106 (VDE 0250 Teil 106) 1992-10
(in Anlehnung anhwth reference to)

Befristet zum / valid until: 2024-12-31 Aktenzeichen: 5006277-5920-0106 / 286666
File ref.
VDE Prüf- und Zertifizierungsinstitut GmbH Ausweis-Nr. 40019512 Blatt 1
VDE Testing and Certification Institute Certificate No. Page
Zertifizierungsstelle / Certification
Offenbach, 2006-11-20
(letzte Änderung / updated: 2021-12-29)

VDE Zertifikate sind nur gültig in Verbindung unter: VDE certificates are valid only when published on
http://www.vde.com/certitist
http://www.vde.com/certificate

VDE


CERTIFICATE OF COMPLIANCE

Certificate Number 20190315-E506583
Report Reference E506583-20190312
Issue Date 2019-MARCH-15

Issued to: GUANGDONG HAERKN NEW ENERGY CO LTD
383 MANFENG, DANI VLG, SHATIAN TOWN
DONGGUAN, GUANGDONG 523993 CHINA

This certificate confirms that representative samples of POWER-LIMITED CIRCUIT CABLE
USL: Power-Limited Circuit Cable, Types CL2P and CL3P, rated 105°C

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 13 Power-Limited Circuit Cables
Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Page 1 of 1


CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2023010105536831 Valid from: Apr.13,2023 Valid until: Apr.12,2028

NAME AND REGISTERED ADDRESS OF THE APPLICANT: GUANGDONG HAERKN NEW ENERGY CO LTD 383 MANFENG, DANI VLG, SHATIAN TOWN, DONGGUAN GUANGDONG 523993 CN

NAME AND REGISTERED ADDRESS OF THE MANUFACTURER: GUANGDONG HAERKN NEW ENERGY CO LTD 383 MANFENG, DANI VLG, SHATIAN TOWN, DONGGUAN GUANGDONG 523993 CN

NAME AND LOCATION OF THE FACTORY: GUANGDONG HAERKN NEW ENERGY CO LTD 383 MANFENG, DANI VLG, SHATIAN TOWN, DONGGUAN GUANGDONG 523993 CN

PRODUCT MODEL(S): PVC insulated flexible cables and wires
60227 IEC 52(RVV) 300/500V 0.5-0.75(2-3芯) 60227 IEC 53(RVV) 300/500V 0.75-2.5(2-5芯) RVV 300/500V 1.5-16(2芯-4+3芯)-1.5(0.75-2.5)(4-5芯) 0.5-1.0(3-4芯)-1.5(2-3芯)-4(5芯)-6(75+1+2.

STANDARDS AND TECHNICAL REQUIREMENTS: GB/T 5023.5-2008/IEC60227-5:2003,JB/T8734.3-2016

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO. CNCA-C01-01:2014)

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Accredited by China National Accreditation Service for Conformity Assessment CNAS C001-P

The certificate information is available through the QR code below or CNCA's website: www.c

SIGNATURE 谢肇照

CHINA QUALITY CERTIFICATION CENTRE

http://www.cqc.com.cn Section 9, No.18A, Nanshuan Xilu, Beijing 100070 P.R.China Tel: +86 10 83886666

智联世界 · 畅想未来

广东华坤新能源股份有限公司
GUANGDONG HAERKN NEW ENERGY CO.,LTD.

智造基地：
广东省东莞市沙田镇大泥村满丰组 383 号
Intelligent manufacturing base：
NO.383,Manfeng,Dani Vil-lage,Shatian Town,Dongguan City,Guangdong Province.
江西省全南县工业三期华坤产业园
Haerkn Industrial Park, Industrial Phase III, Quannan County, Jiangxi Province

集团总部：
广东省东莞市莞城区可园南路 33 号福禧大厦 18 楼
Group headquarters:
18F,FuXi Building,No.33 Keyuan South Road,Guancheng District,Dongguan City,
Guangdong Province.

电话 /TEL:
+86-769-23358666（总部 Headquarters）
+86-769-89088968-858（智造基地 Base）

邮箱 /Email：
info@haerkn.com

网址 /Web：
Http://www.haerkn.com

传真 /FAX：
+86-769-89088969

官网网站
Official Website

微信公众号
Public Accounts