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创造卓越　崇尚文明
CREATE EXCELLENCE
ADVOCATE CIVILIZATION

江苏亨通高压海缆有限公司
HENGTONG SUBMARINE POWER CABLE CO., LTD

打造世界知名品牌，成就国际优秀企业
TO BUILD A WORLD-FAMOUS BRAND AND BECOME
AN INTERNATIONAL EXCELLENT ENTERPRISE



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亨通集团
HENGTONG GROUP

亨通集团，中国光纤光网、智能电网、大数据物联网、新能源、新材料等领域的国家创新型企业。拥有全资及控股公司70家（其中上市公司3家），产业布局全国13个省份，并在欧洲、南美洲、非洲、亚洲等地创建11个产业基地和30多国海外营销技术服务公司，业务覆盖100多个国家及地区，跻身中国企业500强、中国民企100强。全球光纤通信前3强，亨通光纤网络全国市场占有率25%，全球市场占有率15%。

Hengtong Group is a national innovation-oriented enterprise in China's Optical Fiber Network, Smart Grid, Big Data, Internet of Things, New Energy, New Materials and other fields. Hengtong has 70 wholly-owned and holding companies (including 3 listed companies), with an industrial layout in 13 provinces of China, 11 industrial bases in Europe, South America, Africa and Asia, and more than 30 overseas marketing technology service companies, covering more than 100 countries and regions. It ranks among the top 500 Chinese enterprises and the top 100 Chinese private enterprises. It ranks top 3 in global optical fiber communication industry, Hengtong fiber network has a national market share of 25% and a global market share of 15%.



亨通集团将围绕全球光纤通信与能源互联网系统解决方案服务的高定位，打造全价值产业链，生态协同升级版，加快实施“四大融合”，全面推进“四大转型”，努力把亨通打造成为高质量、高科技、国际化一流企业。

Hengtong Group will focus on the global fiber optic communications and energy Internet system solutions services, to create a full-value industrial chain, ecological synergy upgrade, accelerate the implementation of the "four major integration", all-round promotion of the "four major transformation", and strive to build Hengtong into a high-quality, high-tech, international first-class enterprises.

TOP3
全球光纤通信
Global optical communication

70
全资及控股公司70 余家
More than 70 wholly-owned and holding companies

187th
中国企业 500 强
Top 500 Chinese Enterprises

54th
中国民营企业500强
Top 500 Chinese private enterprises

TOP100
江苏民企纳税
Jiangsu private enterprise tax payment

20000+
全球吸纳就业人数
More than 20,000 people are employed globally



亨通电力产业集团
HENGTONG POWER INDUSTRY GROUP

亨通电力产业集团拥有从高端精密材料到高压、超高压、特高压和海洋电力传输全系列产品，提供智能电网、超高压特高压电力传输、超高压电力传输系统解决方案及工程EPC总包服务，致力全球能源物联网建设，是中国电力传输产业链最全、产业层次最高的能源互联系统解决方案服务商，携电网、海洋、智慧能源、新能源汽车、材料五大业务，跻身全球海洋电力和超高压电力传输领域前5强。

Hengtong Power Industry Group has a full range of products from high-end precision materials to high voltage, ultra-high voltage and marine power transmission, providing services of intelligent electricity network, UHV power transmission, UHV power transmission system solutions and EPC services, and dedicating to the construction of global energy Internet of Things. It is China's energy interconnection system solution provider with the most complete power transmission industry chain and the highest industrial level. Hengtong, with five major businesses of power grid, ocean, intelligent energy, new energy vehicles and materials, ranking among the top five in the field of ocean power and ultra-high voltage power transmission in the world.







亨通高压
HENGTONG SUBMARINE

江苏亨通高压海缆有限公司位于常熟经济技术开发区，规划用地400亩，公司建有180米VCV立塔及2个2万吨级码头。主导产品为高压、超高压电缆、海底电缆，光纤复合海底电缆、海底光缆等相关配套产品，并提供相关电力通讯传输设计、生产、安装、维护的系统解决方案。

Hengtong Submarine Power Cable Co., Ltd is located in Changshu Economic Development Zone, with a planning land area of 66 acres. The company has a 180 meter VCV vertical tower and two 20000 ton wharves. The main products are high-voltage, ultra-high-voltage cable, submarine cable, optic-electric composite submarine cable, submarine optical cable and other related supporting products, and provide related power communication transmission design, production, installation, maintenance of the system solutions.

成就国际一流海洋通信及能源互联系统服务商

To become a world-class marine communication and energy interconnection system service provider



研发创新
DEVELOPMENT & INNOVATION

目前，亨通高压拥有江苏省光电海缆工程中心和江苏省超高压光纤复合海底电缆工程技术研究中心两个省级工程研究中心，同时依托于亨通集团的国家企业技术中心、国家博士后工作站、院士工作站等研发平台的技术力量，专注于高端海缆的研发、生产制造，为客户提供能源系统解决方案。

Hengtong Submarine Power Cable Co., Ltd owns two provincial engineering research centers, which are Jiangsu Optic-electric Marine Cable Engineering Center and Jiangsu EHV Optic-electric Composite Submarine Cable Engineering Research Center. Relying on the technical strength of R&D platforms such as national Enterprise Technology Center, National Postdoctoral Workstation and Academician workstation of Hengtong Group, Hengtong Submarine Power Cable Co., Ltd focuses on the R&D, production and manufacturing of high-end Marine cables and provides customers with energy system solutions.









亨通高压拥有国际先进的海缆生产线与测试设备，引领大长度无接头海缆系统技术潮流，开创应用先河，打破多项国内外纪录，成功完成“海底大容量电力通信传输系统关键技术”、“直流±525kV交联聚乙烯绝缘海底电缆系统”、“交流500kV交联聚乙烯绝缘海底电缆系统”等多项科研项目。此外，亨通高压还牵头承担国家重点研发计划“浮式风电用动态缆关键技术研究”重点项目获得科技部立项批复。

Hengtong Submarine Power Cable Co., Ltd. has the world-class production and testing equipment, leading the technological trend of producing large length submarine cable without factory joints. We have successfully completed a number of scientific research projects such as “Key technology of subsea large-capacity power communication and transmission system”, “±525kV DC XLPE submarine cable system”,“500kV AC XLPE submarine cable system”. In addition, the company also takes the lead in undertaking the key national project of "Key Technology Research of Dynamic Cable for Floating Wind Power", which was approved by the Ministry of Science and Technology.

亨通高压积极探索海外创新之路，与欧洲知名研究机构Deltares和Sintef建立了长期的交流与合作关系，曾参与多项国际JIP项目，是亚太区域第一家通过挪威SINTEF的全尺寸动态缆疲劳测试的企业。

Hengtong Submarine Power Cable Co., Ltd. has been actively exploring ways of innovation. It has established long-term communication and cooperation relationships with well-known research institutions “Deltares “and “Sintef” in Europe, and participated in several international JIP projects, becoming the first company in the Asia- Pacific region to pass Norway SINTEF's full-size dynamic cable fatigue test.

装备优势
EQUIPMENT ADVANTAGE

巨拉机 —意大利 FRIGECO
Giant Coarse Copper Rod Drawing — FRIGECO，Italian



- 可根据产品工艺需求，生产三种不同类型的产品（圆形、梯形、扁形）
- 单盘手动收线速度最大可达25m/s
- 双盘全自动收线速度最大可达30m/s

- This machine is used for drawing the copper rod to three products according to different process reequipments（Round shape、Trapezoid、Flat shape）
- Single spooler manual operation winding speed can reach max 25m/s
- Dual spooler automatic winding speed can reach max 30m/s

127 盘高速框绞机 —德国 SKET
127 Drum Frame Stranding Machine — SKET, Germany



- 可制造截面3500mm²及以下分割导体，分割股块最大截面700mm²
- 可制造圆形紧压3000mm² 截面及以下的导体
- 最大紧压系数0.94
- 导体阻水材料全自动添加系统
- 连续自动上下盘，最高生产速度60m/min

- Max cross section of Milliken conductor: 3500mm²; Max cross section of segment: 700mm²
- Max. cross section of circular compacted conductor: 3000mm²
- Max compacted factor: 0.94
- Water-blocking material automatic feeding system
- Automatic drums loading, highest production speed: 60m/min

750kV 立式交联生产线 —德国 TROESTER
750kV VCV Production line — TROESTER, Germany



- 立塔高度180米
- 可制造截面3500mm²及以下的110kV-500kV 电缆绝缘线芯
- 配有前后导体加热器，重力落料系统
- 配有德国SIKORA公司在线外径测试仪、在线测偏仪
- 微孔、杂质、突起在线检测装置
- 前、后在线应力消除系统
- TCC交联软件，可提供稳定的技术支持
- 已验证连续开机25天，单根无接头

- The vertical tower with 180 meters in height
- Suitable for extrusion of conductor with cross-section up to 3500mm² and rated voltage up to 500kV
- front/post conductor heating and gravity-feeding system
- SIKORA online eccentricity monitoring system
- Micro voids, impurities, protrusions online detection system
- Front and post online stress relief system
- TCC cross-linked software to provide stable technical support

220kV 悬链式交联生产线 —德国 TROESTER
220kV CCV Production Line — TROESTER, Germany



- 可制造截面3000mm²及以下的6kV-220kV电缆绝缘线芯
- 上、下履带旋转牵引纠正绝缘偏心
- 配有前后导体加热器，重力落料系统
- 配有德国SIKORA公司在线外径测试仪、在线测偏仪：
- 微孔、杂质、突起在线检测装置
- 前、后在线应力消除系统
- TCC交联软件，可提供稳定的技术支持

- Suitable for extrude insulation core with conductor cross-section up to 3000mm² and rated voltage up to 220kV
- Double rotating traction to control insulation eccentricity
- front/post conductor heating and gravity-feeding system
- SIKORA online eccentricity monitoring system
- Micro voids, impurities, protrusions online detection system
- Front and post online stress relief system
- TCC cross-linked software to provide stable technical support

装备优势
EQUIPMENT ADVANTAGE

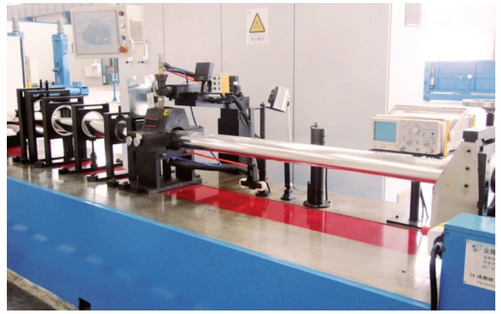
铝包覆连续挤压机
Continuous Aluminum Sheath Extruding Production Line



- 适用于无缝铝护套的连续生产
- 挤出铝护套外径：50-170mm
- 最大生产速度：6m/min

- Suitable for extruding seamless aluminum sheath
- External diameter of sheath: 50-170mm
- Max Speed: 6m/min

氩弧焊管生产线
Argon Arc Welding Production Line



- 可焊接铝、铜、不锈钢材料
- 外径范围40-220mm
- 焊接速度、电流可调
- 最高生产速度10m/min

- Welding aluminum, copper and stainless steel sheath
- External diameter of insulation core: 40-220mm
- Adjustable for welding speed and electric current
- Max. Speed: 10m/min

200连续挤铅机
Continuous Lead Extruder



- 挤出螺杆直径200mm
- 外径范围10-160mm
- 铅炉容量20t
- 配置铅护套测试系统，确保铅护套厚度、偏心度
- 已验证连续开机20天

- Extrusion screw diameter: 200mm
- External diameter of insulation core: 10-160mm
- Lead furnace capacity: 20t
- Online monitoring system to control thickness and eccentricity of lead sheath

立式成缆联合铠装机 —德国 SKET
Vertical Laying-up & Armoring Machine — SKET, Germany



- 国内唯一的德国进口托盘式立式成缆联合铠装机
- 220kV 3×1600mm²海缆单根无接头制造长度可达20KM
- 采用德国进口双段四皮带牵引，完全杜绝轮式牵引对海缆的弯曲破坏
- 配置钢丝张力自动调整装置及钢丝预扭头

- The only Vertical Laying-up&Steel Wire Armoring Machine with turntable imported from German
- Max. Manufacturing length of submarine cable without factory joint: 20KM (220kV 3×1600)
- Two-Stage Four-belt traction to protect the submarine cable from the bending damage caused by wheel-type traction.
- Armoring with tension automatic-adjustment and pre-twisting device

装备优势
EQUIPMENT ADVANTAGE

大容量托盘储缆系统
Large Capacity Turn Table



- 31个旋转托盘和3个储缆池，其中φ36m（12000t）为国内最大的储缆托盘

- There are 31 rotating pallets and 3 cable storage tanks, among which the diameter of 36m (12000t) is the largest cable storage tray in China

串联谐振局放耐压试验系统
Series resonance partial discharge voltage withstand test system



- 串联谐振局放耐压试验系统采用调感方式，使感抗与电缆试验回路容抗匹配产生串联谐振
- 可开展1000kV XLPE绝缘电缆PD测试、工频耐压及负荷循环试验

- The series resonance partial discharge voltage withstand test system adopts the method of adjusting the inductance to match the inductance of the cable test circuit to produce series resonance
- It can carry out PD test, power frequency voltage withstand test and load cycle test of 1000kV XLPE insulated cable

直流试验系统
DC test system



- 直流试验系统采用最新绝缘桶模块化结构设计，在相同电压等级和容量下，体积和占地面积更小
- 可开展1000kV 及以下XLPE电缆直流耐压及负荷循环试验

- The DC test system adopts the latest modular structure design of insulating barrel, which is smaller in volume and floor area under the same voltage level and capacity
- It can carry out DC withstand voltage and load cycle test of 1000kV and below XLPE cable

运输系统
Shipment And Transport



- 拥有2个2万吨级泊位的海缆运输专用码头，吃水深度12m，为国内海缆制造厂家之最
- 输缆栈道长度约50m
- 收线、放线通道分开配置，兼顾生产和装船

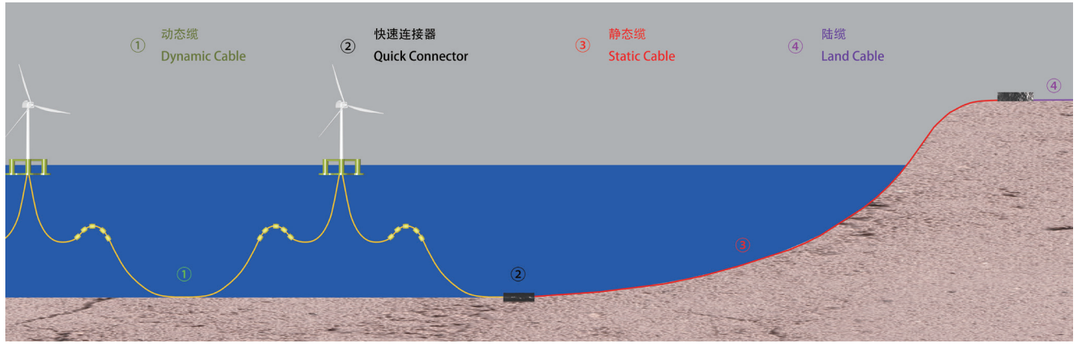
- Harbor: Two harbors (DWT 20,000), with a water depth of 12 m
- The length of cable trestle is about 50m
- Separate Take-up and Pay-off channel

系统解决方案
SYSTEM SOLUTIONS

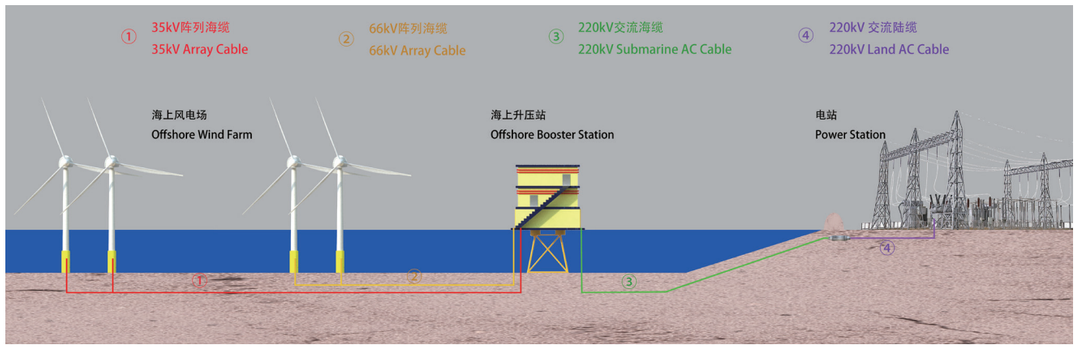


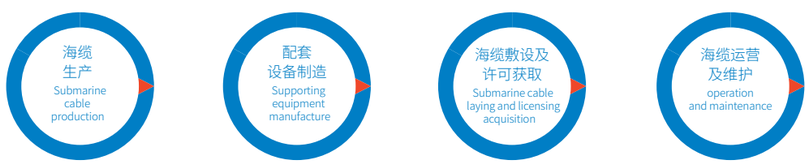
亨通专注于海洋电力及通信传输领域得设备研发和系统集成，提供电力传输系统解决方案及设计 - 施工 - 运维为一体的电力工程 EPC 总包服务和能源物联网业务，包括桌面研究、网络及路由规划、海洋调查及许可获取、海缆生产、配套附件制造、海缆敷设及许可获取、海缆运营及维护等整体解决方案，最大限度降低客户投资和工程风险。

深远海浮式风电动态缆系统解决方案
Offshore Floating Wind Dynamic Cable System Solutions



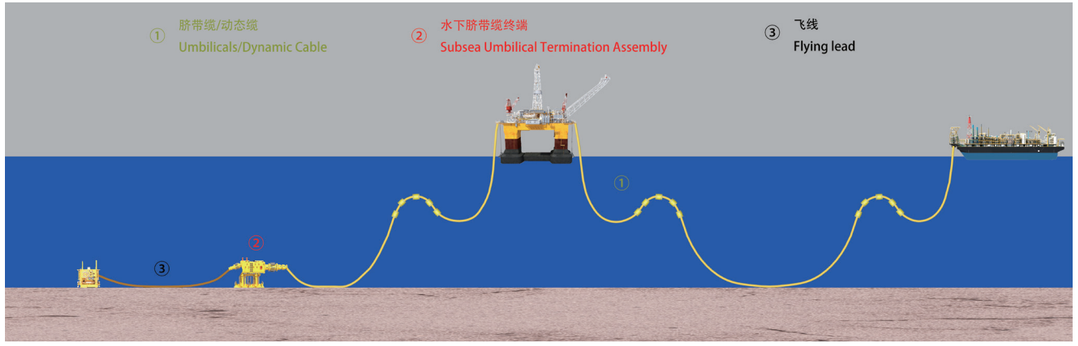
海上风电交流海缆系统解决方案
Offshore Wind AC Cable System Solutions



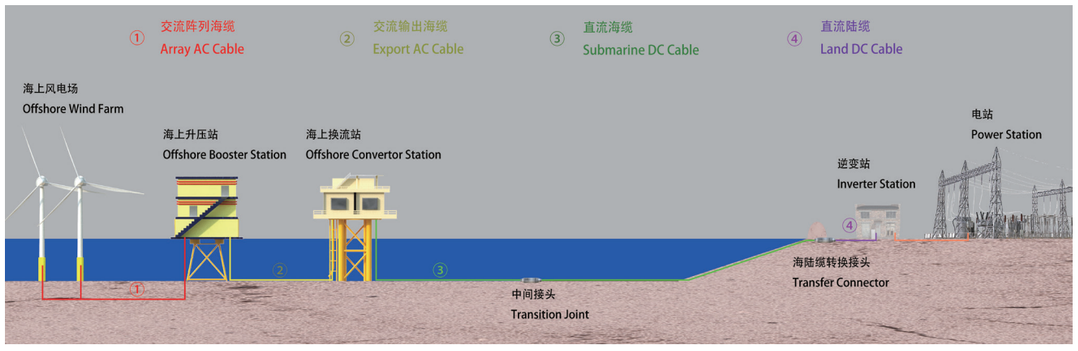


Hengtong focuses on equipment development and system integration in the field of Marine power and communication transmission. It provides power transmission system solutions; design-construction-maintenance integrated power engineering EPC master contract service; energy IOT business, including desk research, network and routing planning; ocean survey and overall solutions include admission acquisition, cable production; accessory manufacturing; cable laying and licensing; and cable operation and maintenance to minimize customer investment and engineering risks.

水下生产控制系统解决方案
Subsea Production Control System Solutions



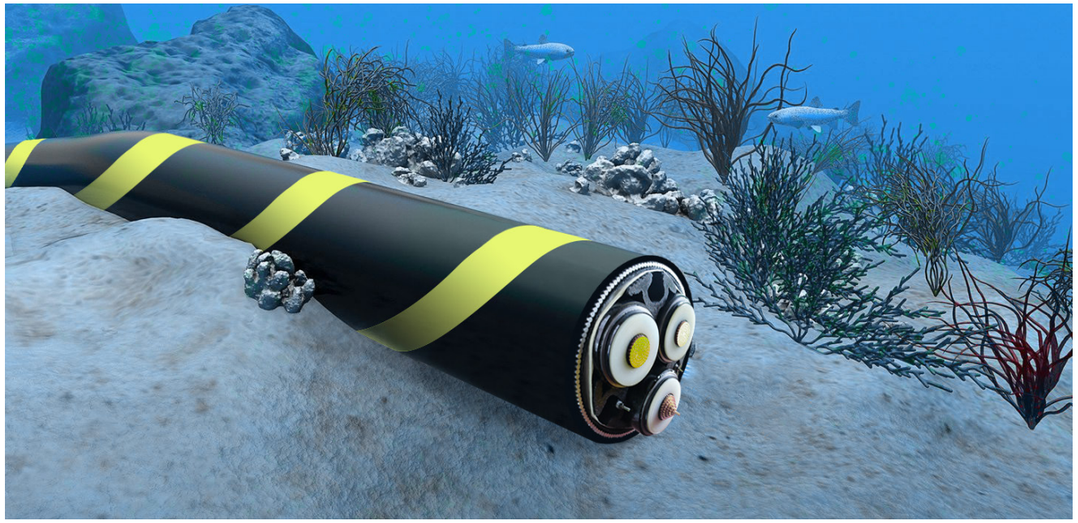
深远海直流海缆系统解决方案
Offshore Submarine DC Cable System Solutions



产品标准
PRODUCT STANDARDS

国际标准
INTERNATIONAL STANDARDS

IEC 62067	额定电压150kV(Um=170kV)至500kV(Um=550kV)挤出绝缘电力电缆及其附件:试验方法和要求 Power cables wrth extruded insulation and their accessories for rated voltages above 150kV(Um=170kV) up to 500kV(Um=550kV)-Test methods and requirements
IEC 60840	额定电压30kV(Um=36kV)至150kV(Um=170kV)挤出绝缘电力电缆及其附件:试验方法和要求 ower cables with extruded insulation and their accessories for rated voltages above 30kV(Um=36kV) up to 150kV(Um=170kV)-Test methods and requirements
IEC 60502	额定电压1kV(Um=1.2kV)至30kV(Um=36kV)挤出绝缘电力电缆及其附件 Power cables with extruded insulation and their accessories for rated voltages from lkV(Um=1.2kV) up to 30kV(Um=36kV)
CIGRE TB 490	额定电压30kV（Um=36kV）到500kV（Um=550kV）大长度挤包绝缘交流海底电缆系统推荐试验 Recommendations for Testing of Long AC submarine Cables with Extruded Insulation for System Voltage above 30kV（Um=36kV）to 500kV（Um=550kV）
IEC63026	额定电压6kV (Um=7.2kV) 至60kV (Um-72.5kV) 的挤压绝缘海底电力电缆及其附件-试验方法和要求 Submarine power cables with extruded insulation and their accessories for rated voltages from 6 kV (Um= 7,2 kV) up to 60 kV (Um- 72,5kV)-Test methods and requirements
CIGRE TB 722	海底电缆附加试验建议 从6kV (Um=7.2kV) 到60kV (Um=72.5kV) Recommendations For Additional Testing For Submarine Cables From 6kv (Um=7.2 kV) Up To 60 Kv (Um= 72.5 kV)
CIGRE TB 496	额定电压500kV及以下直流输电用挤包绝缘电缆系统推荐试验 Recommendations for Testing DC Extruded Cable Systems for Power Transmission at a Rated Voltage up to 500 kV
CIGRE TB 623	海底电缆机械试验推荐试验方法 Recommendations for mechanical testing of submarine cables
ITU-T:G.976	适用于海底光缆系统的试验方法 Test methods applicable to optical fiber submarine cable systems



国家标准
NATIONAL STANDARDS

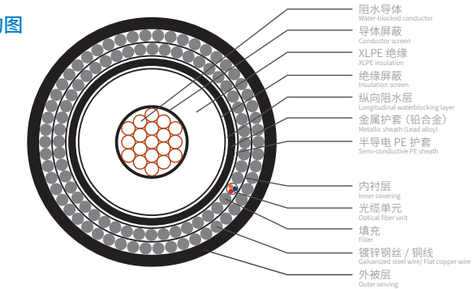
GB/T 22078-2008	额定电压500kV(Um=550kV)交联聚乙烯绝缘电力电缆及其附件 XLPE insulated power cable and its accessories with rated voltage of 500kV (UM = 550kV)
GB/T 18890-2015	额定电压220kV(Um=252kV)交联聚乙烯绝缘电力电缆及其附件 XLPE insulated power cable and its accessories with rated voltage of 220kV (UM = 252kV)
GB/T 11017-2014	额定电压110kV(Um=126kV）交联聚乙烯绝缘电力电缆及其附件 XLPE insulated power cable with rated voltage of 110kV (UM = 126kV) and its accessories
GB/T 12706-2020	额定电压 lkV(Um=1.2kV）到35kV(m=40.5kV）挤包绝缘电力电缆及附件 Extruded insulated power cables and accessories for rated voltages from 1KV (UM = 1.2KV) to 35kV (M = 40.5kV)
GB/T 32346-2015	额定电压220kV(Um=252kV）交联聚乙烯绝缘大长度交流海底电缆及附件 XLPE insulated large length AC submarine cable and accessories with rated voltage of 220kV (UM = 252kV)
JB/T 11167-2011	额定电压10kV(Um=12kV)至110kV(Um=126kV）交联聚乙烯绝缘大长度交流海底电缆及附件 XLPE insulated large length AC submarine cables and accessories with rated voltage from 10kV (UM = 12kV) to 110kV (UM = 126kV)
GB/T 31489-2015	额定电压500kV及以下直流输电用挤包绝缘电力电缆系统 Extruded insulated power cable systems for DC transmission with rated voltages up to and including 500kV
GB/T 18480-2001	海底光缆规范 Specification for submarine optical cables

海缆介绍
SUBMARINE CABLE

适用范围
Scope of application:

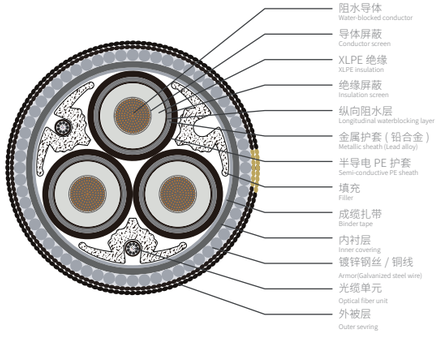
适用于交流、直流输电系统。主要用于大陆与海岛、海岛与海岛、大陆与平台之间的大功率电力输送，及智能电网控制信号传送和通信信号传输。
It is suitable for AC and DC transmission system. It is mainly used for the high-power power power transmission between the mainland and the island, between the island and the island, between the mainland and the platform, as well as the control signal transmission and communication signal transmission of the smart grid.

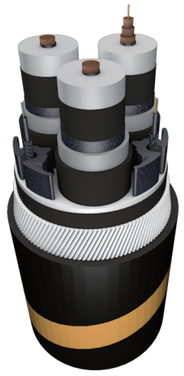
交流/直流单芯海缆产品结构图
Product Construction:





交流三芯海缆产品结构图
Product Construction:





使用特性
Operational performance:

- 电缆导体允许的最高工作温度为90°C（交流）/70°C（直流）。
  Max. continuous operation temperature: 90°C.
- 短路时（最长持续时间不超过5s）电缆导体的最高工作温度不超250°C（交流）/160°C（直流）。
  Max. temperature at short circuit (less than≤5s) : 250°C.
- 电缆敷设时环境温度应不低于0°C。
  Lowest recommended temperature during installation: 0°C.
- 工厂软接头有与电缆本体相同的电气性能和机械性能。
  Factory joint has the same electrical and mechanical performance with main cable body.

交联聚乙烯绝缘光纤复合海底电缆主要技术参数（交流）
Main technical parameters of XLPE insulated optical fiber composite submarine cable (AC)

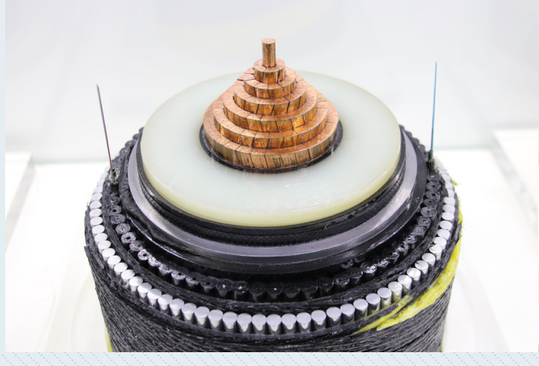
电压等级 Voltage level	规格 Specification	载流量 Ampacity (A)		参考传输容量 Reference transmission capacity (MVA)	电阻 Resistance (Ω/km)		电容 Capacitance (uF/km)	电缆外径 Cable Diameter (mm)	敷设时最小弯曲半径 Minimum bending radius during laying (mm)	电缆重量 Cable weight (kg/km)	
		海床 Seabed	滩涂 Tidal flat		20°C导体最大直流电阻 Max DC Resistance at 20°C	90°C导体最大交流电阻 Max AC Resistance at 90°C				空气中 In the air	海水中 In seawater
290/500kV 单芯 Single core	1x800	994	927	802	0.0221	0.0309	0.126	165.3	3306	54895	33435
	1x1000	1065	991	858	0.0176	0.0257	0.138	167.9	3358	57582	35441
	1x1200	1115	1037	898	0.0151	0.0229	0.144	171	3420	61127	38162
	1x1400	1159	1076	931	0.0129	0.0205	0.154	172.6	3452	63644	40246
	1x1600	1203	1117	967	0.0113	0.0188	0.162	172.4	3448	67465	43026
	1x1800	1226	1138	985	0.0101	0.0175	0.169	176.2	3524	69045	44661
	1x2000	1264	1173	1015	0.0090	0.0163	0.177	180.2	3604	72941	47438
	1x2200	1288	1195	1034	0.0083	0.0156	0.182	182.8	3656	75749	49504
	1x2500	1330	1234	1068	0.0072	0.0144	0.190	186.7	3734	80541	53164
127/220kV 三芯 Three core	3×400	605	575	219	0.047	0.0616	0.118	238.9	3583	100278	55440
	3×500	667	635	241	0.0366	0.0488	0.126	246.3	3694	107132	59494
	3×630	728	693	264	0.0283	0.0389	0.138	249.5	3742	113254	64355
	3×800	784	746	284	0.0221	0.0318	0.152	253.2	3798	119558	69209
	3×1000	840	790	301	0.0176	0.0268	0.17	260.3	3904	129457	76233
	3×1200	856	815	310	0.0151	0.0242	0.178	267.4	4011	139411	83232
	3×1400	880	839	319	0.0129	0.0219	0.188	275.7	4135	150262	90582
	3×1600	898	857	326	0.0113	0.0202	0.198	284.3	4264	161410	97930
127/220kV 单芯 Single core	1×400	757	707	269	0.0470	0.0613	0.118	134.9	2698	39112	24819
	1×500	837	780	297	0.0366	0.0484	0.126	138.3	2766	41471	26449
	1×630	916	852	324	0.0283	0.0383	0.138	139.8	2796	43630	28280
	1×800	987	916	349	0.0221	0.0309	0.152	141.7	2834	45568	29798
	1×1000	1059	981	373	0.0176	0.0257	0.170	144.8	2896	48860	32393
	1×1200	1106	1025	390	0.0151	0.0229	0.178	148.1	2962	52300	35073
	1×1400	1148	1063	405	0.0129	0.0205	0.187	151.7	3034	55308	37234
	1×1600	1188	1100	419	0.0113	0.0188	0.197	155.5	3110	58579	39588
	1×1800	1214	1124	428	0.0101	0.0175	0.202	157.5	3150	61149	41666
	1×2000	1249	1156	440	0.0090	0.0163	0.212	161.1	3222	64404	44020
	1×2200	1272	1177	448	0.0083	0.0156	0.219	163.7	3274	67166	46119
	1×2500	1310	1212	461	0.0072	0.0144	0.229	167.4	3348	71300	49291

电压等级 Voltage level	规格 Specification	载流量 Ampacity (A)		参考传输容量 Reference transmission capacity (MVA)	电阻 Resistance (Ω/km)		电容 Capacitance (uF/km)	电缆外径 Cable Diameter (mm)	敷设时最小弯曲半径 Minimum bending radius during laying (mm)	电缆重量 Cable weight (kg/km)	
		海床 Seabed	滩涂 Tidal flat		20°C导体最大直流电阻 Max DC Resistance at 20°C	90°C导体最大交流电阻 Max AC Resistance at 90°C				空气中 In the air	海水中 In seawater
64/110kV 三芯 Three core	3×240	497	471	89	0.0754	0.0972	0.125	184.0	2760	62660	36064
	3×300	552	522	99	0.0601	0.0780	0.136	186.9	2803	65828	38399
	3×400	613	580	110	0.0470	0.0618	0.152	188.9	2833	68910	40885
	3×500	676	639	121	0.0366	0.0491	0.167	194.1	2911	74128	44545
	3×630	738	698	132	0.0283	0.0393	0.184	199.6	2994	80762	49469
	3×800	794	751	143	0.0221	0.0323	0.204	206.1	3091	88560	55188
	3×1000	839	795	151	0.0176	0.0274	0.224	217.7	3265	100004	62771
	3×1200	865	819	156	0.0151	0.0248	0.236	225.4	3381	109667	69772
	3×1400	889	843	160	0.0129	0.0225	0.250	233.6	3504	119691	76822
	3×1600	908	862	164	0.0113	0.0209	0.264	242.4	3636	130289	84153
64/110kV 单芯 Single core	1×240	610	569	108	0.0754	0.0970	0.125	109.6	2192	26391	16956
	1×300	669	622	119	0.0601	0.0777	0.136	110.9	2218	27281	17622
	1×400	737	684	130	0.047	0.0613	0.152	111.9	2238	28437	18602
	1×500	804	744	142	0.0366	0.0484	0.167	114.3	2286	30212	19952
	1×630	870	804	153	0.0283	0.0383	0.184	116.8	2336	32401	21686
	1×800	933	862	164	0.0221	0.0309	0.204	119.8	2396	35165	23893
	1×1000	998	921	175	0.0176	0.0257	0.224	125.2	2504	38881	26570
	1×1200	1041	960	183	0.0151	0.0229	0.236	128.5	2570	42082	29114
	1×1400	1084	1000	191	0.0129	0.0205	0.250	132.3	2646	45454	31707
	1×1600	1121	1033	197	0.0113	0.0188	0.264	136.3	2726	48872	34282
38/66kV 三芯 Three core	3×120	356	336	38	0.153	0.1958	0.146	143.5	2153	39832	23648
	3×150	397	375	43	0.124	0.159	0.155	147.4	2211	42272	25201
	3×185	443	419	48	0.0991	0.1276	0.164	151.3	2270	44892	26910
	3×240	505	477	55	0.0754	0.0972	0.182	154.2	2313	47510	28829
	3×300	560	529	60	0.0601	0.0780	0.194	159.6	2393	51568	31571
	3×400	624	589	67	0.0470	0.0618	0.210	166.4	2495	56769	35033
	3×500	688	650	74	0.0366	0.0491	0.236	171.7	2575	62149	38995
	3×630	753	711	81	0.0283	0.0393	0.256	179.7	2696	69722	44358
	3×800	811	767	88	0.0221	0.0323	0.278	188.7	2830	78591	50629
	3×1000	861	815	93	0.0176	0.0274	0.306	200.6	3009	90102	58504
	3×1200	889	842	96	0.0151	0.0248	0.323	207.6	3114	98532	64677
	3×1400	913	866	99	0.0129	0.0225	0.343	215.9	3238	108207	71608
	3×1600	932	884	101	0.0113	0.0209	0.365	224.6	3369	118435	78813

电压等级 Voltage level	规格 Specification	载流量 Ampacity (A)		参考传输容量 Reference transmission capacity (MVA)	电阻 Resistance (Ω/km)		电容 Capacitance (uF/km)	电缆外径 Cable Diameter (mm)	敷设时最小弯曲半径 Minimum bending radius during laying (mm)	电缆重量 Cable weight (kg/km)	
		海床 Seabed	滩涂 Tidal flat		20°C导体最大直流电阻 Max DC Resistance at 20°C	90°C导体最大交流电阻 Max AC Resistance at 90°C				空气中 In the air	海水中 In seawater
26/35kV 三芯 Three core	3×70	266	250	15	0.268	0.3420	0.134	115.1	1726	27342	16937
	3×95	315	297	18	0.193	0.2465	0.146	118.8	1782	29166	18080
	3×120	356	335	20	0.153	0.1956	0.156	122.0	1830	30854	19164
	3×150	396	373	22	0.124	0.1588	0.167	125.6	1884	32739	20348
	3×185	443	416	25	0.0991	0.1273	0.178	129.3	1939	34861	21729
	3×240	504	474	28	0.0754	0.0974	0.193	134.3	2014	38023	23858
	3×300	559	526	31	0.0601	0.0783	0.209	139.4	2091	41356	26093
	3×400	621	584	35	0.047	0.0622	0.228	145.8	2187	45685	28989
	3×500	685	645	39	0.0366	0.0496	0.252	154.0	2310	51397	32770
8.7/10kV 三芯 Three core	3×50	219	205	3	0.387	0.4937	0.210	78.7	1180	13909	9044
	3×70	267	250	4	0.268	0.3421	0.239	83.0	1245	15481	10070
	3×95	317	297	5	0.193	0.2466	0.264	86.9	1303	17169	11238
	3×120	358	335	5	0.153	0.1958	0.286	90.3	1354	18754	12350
	3×150	399	373	6	0.124	0.159	0.311	94.1	1411	20681	13726
	3×185	446	417	7	0.0991	0.1276	0.336	98.0	1470	22708	15164
	3×240	508	475	8	0.0754	0.0978	0.371	103.0	1545	25781	17449
	3×300	563	527	9	0.0601	0.0788	0.405	108.6	1629	29033	19770
	3×400	625	585	10	0.047	0.0628	0.449	115.5	1732	33377	22900
	3×500	688	645	11	0.0366	0.0505	0.505	124.0	1860	39055	26978

1、载流量计算基于：①海床温度 25°C，热阻 0.7，埋深 2m；②滩涂土壤温度 30°C，热阻 0.9，埋深 1m。
2、以上参数计算仅供参考，会因海缆设计、环境条件不同而变化。

1. The calculation of carrying capacity is based on: ① seabed temperature 25 °C, thermal resistance 0.7, buried depth 2m; ② beach soil temperature 30 °C, thermal resistance 0.9, buried depth 1m.
2. The above parameter calculation is only for reference, and will change due to different submarine cable design and environmental conditions.





交联聚乙烯绝缘光纤复合海底电缆主要技术参数（直流）

Main technical parameters of XLPE insulated optical fiber composite submarine cable (DC)

电压等级 Voltage level	规格 Specification	载流量 Ampacity (A)		参考传输容量 Reference transmission capacity (MVA)	电阻 Resistance (Ω/km)		电容 Capacitance (uF/km)	电缆外径 Cable Diameter (mm)	敷设时最小弯曲半径 Minimum bending radius during laying (mm)	电缆重量 Cable weight (kg/km)	
		海床 Seabed	滩涂 Tidal flat		20°C导体最大直流电阻 Max DC Resistance at 20°C	70°C导体最大直流电阻 Max DC Resistance at 70°C				空气中 In the air	海水中 In seawater
±160kV	1×240	634	587	187	0.0754	0.0902	0.144	111.4	2227	25034	15296
	1×300	728	674	215	0.0601	0.0719	0.159	111.6	2231	25557	15784
	1×400	848	784	250	0.0470	0.0562	0.179	112.6	2251	26861	16912
	1×500	982	908	290	0.0366	0.0438	0.194	116.0	2319	28720	18161
	1×630	1142	1055	337	0.0283	0.0339	0.21	120.0	2399	31499	20198
	1×800	1324	1222	391	0.0221	0.0264	0.232	123.1	2461	34320	22428
	1×1000	1522	1404	449	0.0176	0.0211	0.261	127.1	2541	37622	24944
	1×1200	1665	1536	491	0.0151	0.0181	0.274	130.4	2607	40475	37131
	1×1400	1827	1685	539	0.0129	0.0154	0.291	134.2	2683	43776	29641
	1×1600	1979	1825	584	0.0113	0.0135	0.308	138.2	2763	47194	32204
±200kV	1×400	832	770	246	0.0470	0.0562	0.158	119.2	2383	29324	18174
	1×500	964	892	285	0.0366	0.0438	0.170	122.8	2455	31744	19910
	1×630	1125	1040	332	0.0283	0.0339	0.187	125.8	2515	34084	21664
	1×800	1308	1208	386	0.0221	0.0264	0.211	127.5	2549	36155	23397
	1×1000	1504	1389	444	0.0176	0.0211	0.235	131.5	2629	39508	25937
	1×1200	1645	1519	486	0.0151	0.0181	0.247	134.8	2695	42591	28330
	1×1400	1805	1667	533	0.0129	0.0154	0.261	138.6	2771	45757	30680
	1×1600	1956	1806	577	0.0113	0.0135	0.276	142.6	2851	49176	33216
	1×1800	2082	1922	615	0.0101	0.0121	0.284	144.8	2895	52010	35554
	1×2000	2222	2051	656	0.0090	0.0108	0.292	147.3	2945	55870	38841
±250kV	1×400	807	749	239	0.0470	0.0562	0.131	132.8	2655	35379	21538
	1×500	935	868	277	0.0366	0.0438	0.14	136.4	2727	37721	23119
	1×630	1093	1013	324	0.0283	0.0339	0.155	138	2759	39505	24558
	1×800	1269	1176	376	0.0221	0.0264	0.171	140.1	2801	42003	26598
	1×1000	1463	1354	433	0.0176	0.0211	0.192	142.7	2853	44612	28630
	1×1200	1601	1481	473	0.0151	0.0181	0.201	146	2919	47814	31084
	1×1400	1761	1630	521	0.0129	0.0154	0.216	148.8	2975	50769	33391
	1×1600	1909	1766	565	0.0113	0.0135	0.228	152.8	3055	54368	36042
	1×1800	2033	1881	601	0.0101	0.0121	0.234	155	3099	57285	38428
	1×2000	2169	2007	642	0.0090	0.0108	0.24	157.3	3145	60836	41415
	1×2500	2475	2289	732	0.0072	0.0086	0.26	163.6	3271	67949	46941
±320kV	1×800	1250	1159	741	0.0221	0.0264	0.156	146.2	2923	44795	28019
	1×1000	1436	1332	852	0.0176	0.0211	0.170	152.2	3043	49617	31435
	1×1200	1571	1457	932	0.0151	0.0181	0.178	155.5	3109	52925	33946
	1×1400	1725	1599	1023	0.0129	0.0154	0.188	159.3	3185	56525	36607
	1×1600	1875	1737	1111	0.0113	0.0135	0.200	161.9	3237	59182	38608
	1×1800	2001	1854	1186	0.0101	0.0121	0.208	163.1	3261	61610	40730
	1×2000	2135	1978	1265	0.0090	0.0108	0.214	165.4	3307	65204	43731
	1×2500	2436	2257	1444	0.0072	0.0086	0.231	172.1	3441	72960	49711
	1×3000	2701	2502	1601	0.0060	0.0072	0.241	176.5	3529	79955	55502
	1×3500	2980	2762	1767	0.0051	0.0061	0.258	183.1	3661	87426	61109
±400kV	1×1000	1424	1321	1056	0.0176	0.0211	0.162	156.6	3131	51787	32538
	1×1200	1558	1446	1156	0.0151	0.0181	0.169	159.9	3197	55139	35071
	1×1400	1714	1590	1272	0.0129	0.0154	0.180	162.5	3249	57812	37086
	1×1600	1862	1727	1381	0.0113	0.0135	0.192	165.3	3305	61144	39696
	1×1800	1983	1839	1471	0.0101	0.0121	0.196	167.5	3349	64160	42138
	1×2000	2117	1963	1570	0.0090	0.0108	0.202	170.0	3399	67982	45298
	1×2500	2415	2239	1791	0.0072	0.0086	0.217	176.5	3529	75438	50985
	1×3000	2677	2482	1985	0.0060	0.0072	0.227	181.1	3621	82506	56761
	1×3500	2956	2741	2192	0.0051	0.0061	0.242	187.7	3753	90552	62896
±500kV	1×1000	1407	1307	1307	0.0176	0.0211	0.150	163.4	3267	55692	34736
	1×1200	1539	1430	1430	0.0151	0.0181	0.157	166.7	3333	58883	37071
	1×1400	1697	1575	1575	0.0129	0.0154	0.169	168.1	3361	61213	39033
	1×1600	1840	1708	1708	0.0113	0.0135	0.177	172.1	3441	64996	41747
	1×1800	1959	1819	1819	0.0101	0.0121	0.182	174.3	3485	68067	44220
	1×2000	2091	1941	1941	0.0090	0.0108	0.186	176.6	3531	71486	47005
	1×2500	2386	2215	2215	0.0072	0.0086	0.200	183.3	3665	79481	53107
	1×3000	2645	2455	2455	0.0060	0.0072	0.209	187.9	3757	86950	59235
	1×3500	2921	2712	2712	0.0051	0.0061	0.223	194.3	3885	94568	64932

1、载流量计算基于：①海床温度 25°C，热阻 0.7，埋深 2m；②滩涂土壤温度 30°C，热阻 0.9，埋深 1m。
2、以上参数计算仅供参考，会因海缆设计、环境条件不同而变化。
3、电压等级不超过 10% 同样适用。

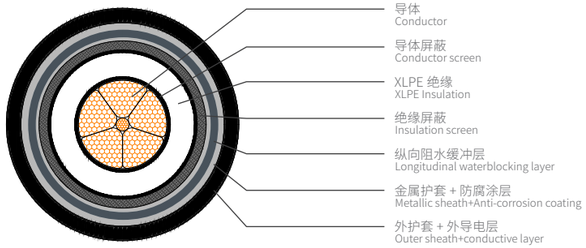
1. The calculation of carrying capacity is based on: ① seabed temperature 25 °C, thermal resistance 0.7, buried depth 2m; ② beach soil temperature 30 °C, thermal resistance 0.9, buried depth 1m.
2. The above parameter calculation is only for reference, and will change due to different submarine cable design and environmental conditions.
3. The same applies if the voltage level does not exceed 10%.

陆缆介绍
UNDERGROUND CABLE

适用范围
Scope of application:

适用于工频 49-61 赫兹、高电压等级的电力系统主干线路中，传输和分配大功率电能，是大型水电站、变电所等大容量设施的引出线。
Apply to ransmission and distribution high-power of main trunk circuit with power frequency of 49-61Hz and rated voltage of 290/500kV (Um= 550kV),and used as outgoing line of large capacity facilities such as hydropower station, substation etc.

产品结构图
Product Construction:





使用特性
Operational performance:

- 电缆导体允许的最高工作温度为90°C。
  Max. continuous operation temperature: 90°C.
- 短路时(最长持续时间不超过5s)电缆导体的最高工作温度不超过250°C。
  Max. temperature at short circuit (less than≤5s) : 250°C.
- 电缆敷设时环境温度应不低于0°C，低于0°C敷设时，必须预先加温。
  Lowest recommended temperature during installation: 0°C.
- 电缆敷设不受落差限制，最小弯曲半径不小于电缆外径的20倍。
  Min. bending radius during installation shall not be less than 20 times the cable diameter.
- 聚氯乙烯(PVC)外护套主要适用于有一般防火要求和对外护套有一定绝缘要求的电缆线路。聚乙烯(PE)外护套主要适用于对外护套绝缘要求较高的直埋敷设电缆线路，防潮性能好。
  PVC outer sheath is mainly applied for cable with general fireproof requirement and insulating requirement. PE outer sheath is mainly applied for directly buried cable with high insulating requirement and good waterproof requirement.

交联聚乙烯绝缘电力电缆主要技术参数
Main technical parameters of XLPE insulated power cable

电压等级 Voltage level	规格 Specification	载流量 Ampacity (A)			电阻 Resistance (Ω/km)		电容 Capacitance (uF/km)	敷设时最小弯曲半径 Minimum bending radius during laying (mm)	电缆外径 Cable Diameter (mm)	电缆重量 Cable weight (kg/km)
		空气 Air	土壤 Soil	管道 Pipe	20°C导体最大直流电阻 Max DC Resistance at 20°C	90°C导体最大交流电阻 Max AC Resistance at 90°C				
290/500kV	1x800	1187	954	882	0.0221	0.0312	0.125	2958	147.9	22346
	1x1000	1391	1044	936	0.0176	0.0247	0.139	3060	153.0	24896
	1x1200	1521	1182	989	0.0151	0.0218	0.148	3144	157.2	27336
	1x1400	1626	1209	1047	0.0129	0.0193	0.158	3188	159.4	29217
	1x1600	1729	1297	1104	0.0113	0.0176	0.168	3252	162.6	33631
	1x1800	1789	1329	1189	0.0101	0.0162	0.173	3260	163.0	33318
	1x2000	1852	1383	1220	0.0090	0.0154	0.180	3344	167.2	35799
	1x2200	1988	1457	1354	0.0083	0.0142	0.185	3390	169.5	37924
	1x2500	2066	1485	1399	0.0072	0.0131	0.194	3478	173.9	41654
	1x3000	2719	1868	1662	0.0060	0.0118	0.224	3718	185.9	47590
127/220kV	1x400	866	719	650	0.0470	0.0614	0.118	2266	113.3	12890
	1x500	1029	824	755	0.0366	0.0486	0.126	2330	116.5	14252
	1x630	1183	937	887	0.0283	0.0387	0.138	2356	117.8	15552
	1x800	1312	1067	944	0.0221	0.0312	0.151	2410	120.5	17255
	1x800 分	1355	1048	968	0.0221	0.0300	0.156	2444	122.2	17554
	1x1000	1573	1134	1045	0.0176	0.0247	0.172	2516	125.8	19781
	1x1200	1906	1314	1138	0.0151	0.0218	0.184	2600	130.0	22030
	1x1400	1832	1402	1222	0.0129	0.0193	0.193	2684	134.2	24276
	1x1600	1918	1478	1301	0.0113	0.0176	0.201	2744	137.2	26444
	1x1800	1986	1503	1349	0.0101	0.0162	0.208	2792	139.6	28548
	1x2000	2062	1556	1374	0.0090	0.0154	0.216	2880	144.0	30997
	1x2200	2152	1609	1468	0.0083	0.0142	0.222	2926	146.3	33011
	1x2500	2305	1659	1577	0.0072	0.0131	0.234	3010	150.5	36518
64/110kV	1x240	685	569	492	0.0754	0.0970	0.124	1762	88.1	7683
	1x300	777	638	578	0.0601	0.0778	0.134	1786	89.3	8326
	1x400	899	722	662	0.0470	0.0614	0.150	1802	90.1	9146
	1x500	1029	812	732	0.0366	0.0486	0.166	1846	92.3	10273
	1x630	1176	911	831	0.0283	0.0385	0.183	1912	95.6	11773
	1x800	1302	1009	929	0.0221	0.0312	0.202	1986	99.3	13583
	1x800	1335	1045	925	0.0221	0.0300	0.215	2068	103.4	14066
	1x1000	1493	1149	1029	0.0176	0.0247	0.232	2164	108.2	16531
	1x1200	1698	1218	1098	0.0151	0.0218	0.249	2268	113.4	18883
	1x1400	1817	1321	1201	0.0129	0.0193	0.262	2332	116.6	20988
	1x1600	1907	1388	1268	0.0113	0.0176	0.275	2392	119.6	23077

注： 导体截面范围为 800-3500mm²。800mm² 导体可选择紧压导体或分割导体结构，1000mm² 及以上导体采用分割导体结构。
载流量设计条件：外护套选用 PE，平行敷设①土壤温度 25°C，热阻系数 1.0；②空气温度 40°C；③管道温度 25°C，热阻系数 6.0。
Note: Cross section of conductor 800-3500mm². Both compacted, circular conductor and Milliliken conducor are available. However, Milliken conductor is only recommended for conductor sizes not less than 1000mm²
The design conditions of current carrying capacity: PE outer sheath,flat installation ① Soil temperature 25°C, the thermal resistivity1.0 ② Air temperature 40°C; ③ Pipe temperature 25°C, the thermal resistivity 6.0.

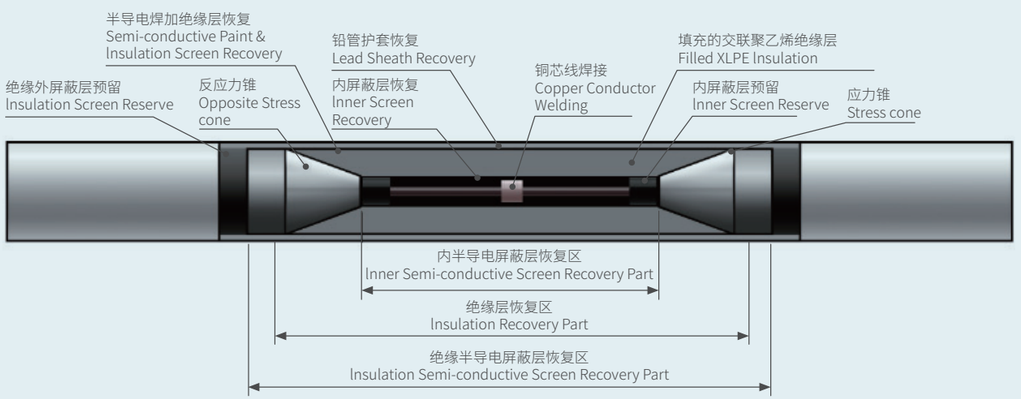
软接头绝缘互熔技术
TECHNOLOGY OF FMJ

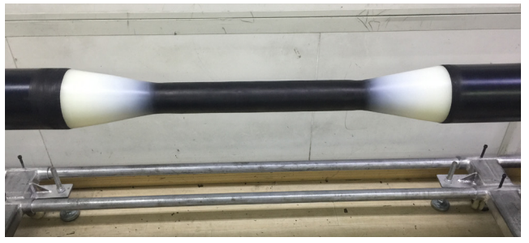
电缆“免维护接头”(FMJ)是一种施工现场使用的电缆本体恢复技术。其核心在于通过银钎焊接和交联控制技术，实现中间接头结构与电缆结构一致，彻底解决了电缆附件与电缆绝缘之间配装所产生活动界面的根本性问题，杜绝了中间接头机械性能差、密封不良、易受潮、易发热和故障率高等常见问题，这种接头与所连接电缆结合后的电场应力分布基本一致，为电缆系统提供一种更高的安全可靠和电气稳定性的电缆接续技术。

“Flexible molded joint”(FMJ) is a kind of technology for power cable restoration. The essence of FMJ is to provide a highly secure, reliable and stable joint technology for cable system by silver brazing and cross linking control method to ensure that the performance of joint is the same as original cable. This technology thoroughly solves the fundamental problems of the active interface caused by connection between cable accessories and cable. The common problems such as poor mechanical performance, poor seal, susceptibility to moisture, heat and high failure rate are eliminated.The electric field stress distribution of the joint is basically consistent with that of the connected cable, which provides a cable connection technology with higher safety, reliability and electrical stability for the cable system.

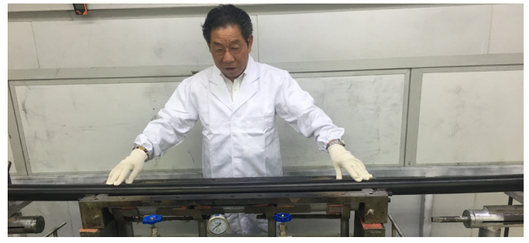
过程控制：
Process Control：

导体恢复——导体屏蔽恢复——绝缘恢复——绝缘屏蔽恢复——金属套恢复——非金属套恢复
Conductor Recovery——Conductor Screen Recovery——Insulation Recovery——Insulation Screen Recovery——Metal Sheath Recovery——Non-Metal Sheath Recovery





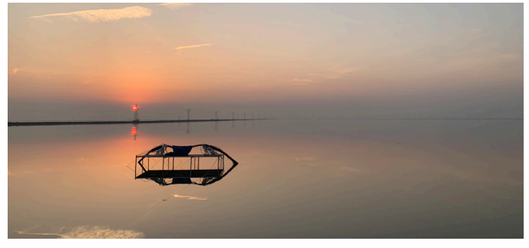
中广核阳江南鹏岛220kV海缆工厂接头
220kV submarine cable factory joint, NANPENG Island, Yangjiang, CGN



徐州供电公司 FMJ 110kV 1*630 模注式接头项目
XuZhou Power Supply Company FMJ 110kV 1*630 Model injection Joint Project



广西钢铁集团防城港钢铁基地项目110kV电缆熔接头制安工程
110kV cable fusion joint manufacturing and installation project of Fangchenggang iron and steel base project of Guangxi iron and Steel Group



粤水电沾化滨海80MW风电场工程35kV海缆熔接头
35kV submarine cable fusion joint of Zhanhua Binhai 80mW wind farm project of Guangdong hydropower

产品特征 Product features:

项目 Items	免维护接头（FMJ） Flexible Molded Joint	普通电缆接头 Common cable joint
结构尺寸 Structure size	导体、内屏蔽、绝缘及外屏蔽结构材料和尺寸均与本体一致 Materials and size of conductor, conductor screen, insulation, insulation screen are the same as original cable.	绝缘与屏蔽结构采用其他材料代替，尺寸偏大 Materials of insulation and screen are different from the original cable. The size of joint is larger than original cable.
导体连接 Conductor connection	银钎焊技术，等直径、低电阻、焊接处拉断力可达本体 95% Same diameter, low resistance, 95% tensile strength of the original conductor can be ensured by silver brazing technology.	整体压接，电阻偏大，抗拉强度底 Crimping technology will result in higher resistance, lower tensile strength.
绝缘制法 Insulation recovery	模注工艺，FMJ 与电缆本体熔融结合， 彻底消除界面，电场分布与原电缆等值均匀 Mold casting technology can completely eliminates the interface and ensures the distribution of electric field is the same as original cable.	预制件装配，与电缆本体间存在可活动界面，界面极化、空间电荷积聚导致电场畸变问题 Active interface caused by assembling of prefabricated accessories will result in distortion of electric field.
电气性能 Electrical properties	与本体一致 Same as original cable	能达到使用要求 Meet operating requirements
机械性能 Mechanical properties	与本体一致 Same as original cable	差 Poor performance
弯曲性能 Bending properties	与本体一致 Same as original cable	差 Poor performance
使用寿命 Service life	与本体一致 Same as original cable	故障率高、易发热、易受潮、易老化 High fault rate, easy to be affected by moisture and get hot, easy to age

电缆附件
THE CABLE ACCESSORIES

产品范围
Product Scope

除了提供交联绝缘型陆地电缆和海底电缆之外，亨通还可以提供全系列的电缆附件。并负责相应的现场安装工作。

In addition to land and submarine cables, Hengtong also provides a full range of cable accessories and responsible for the accessories installation work.

Um /kV	72.5	126	145	170	245	300	420	550
户外终端 Outdoor Termination	X/D/O	X/D/O	X/O	X/O	X/O	X/O	X/O	
GIS 终端 GIS Termination	X/D	X/D	X/D	X/D	X/D	X/D		
变压器终端 Transformer Termination	X/D	X/D	X/D	X/D	X/D	X/D		
中间接头 Joint	X/D	X/D	X/D	X/D	X/D	X/D		
Y 型分支接头 Y joint	X/D	X/D	X/D	X/D	X/D			

X: 交联绝缘型电缆 ;　　O: 充油式附件　　D: 干式附件 ;
X: for XLPE cable ;　　O: oil type for XLPE cable;　　D: dry type for XLPE cable ;

设计与制造
Design and Manufacture

全部附件都由富有经验的设计人员设计。全部关键部件都是自产，其他部件从合格供应商处采购。金属部件由铜、铜合金或抗氧化铝制成。所有的紧固螺栓、螺母及垫片都由不锈钢制成。因此，亨通高压电缆附件完全可以达到和电缆一样长的使用寿命。预制式的应力锥和接头主体都由乙丙橡胶制成。由于其优良的电气及机械性能，乙丙橡胶应用于高压电缆附件产品已有好几十年的历史，并充分证明了其高可靠性。大部分的部件都可以手工安装，最大限度的减少了专用工具的使用。对内置光纤的电缆，光纤附件单元设置于中间接头内部。超高压电缆附件可配置传感器用于局部放电在线检测。

All accessories are designed by experienced designers. All key components are made in-house, and the rest are sourced from qualified suppliers. The metal parts are made of copper, copper alloy or alumina. All fastening bolts, nuts and gaskets are made of stainless steel. Therefore, Hengtong high voltage cable accessories can achieve the same long service life as the cable. The prefabricated stress cone and joint body are made of ethylene propylene rubber. Due to its excellent electrical and mechanical properties, ethylene propylene rubber has been used in high voltage cable accessories for several decades and has fully proved its high reliability. Most parts can be installed manually, minimizing the use of specialized tools. For cable with built-in optical fiber, the optical fiber accessory unit is arranged inside the intermediate connector. Ultra high voltage cable accessories can be configured with sensors for online partial discharge detection.

现场安装
Installation on site

亨通组建有安装团队并配置有适当的安装工具，我们的安装人员具备全部安装及维护高压电缆系统的专业能力，包括各种不同结构的陆上电缆和海底电缆。

Hengtong has its own installation team equipped with appropriate installation tools. Our installers have the professional ability to install and maintain all high voltage cable systems, including land cables and submarine cables of various structures.

安装及服务
Installation and Services

“关注客户”是亨通在此领域全部活动的驱动力。在项目的开始阶段，我们就专注于客户的利益，提供最适合其实际需求的解决方案，也可以协助客户改善现有系统，持续性的为客户发掘在技术上最可行且最经济的解决方案。

"Customer focus" is the driving force behind Hengtong's activities in this field. At the beginning of the project, we focus on the interests of our customers and provide the solution that best suits their actual needs to assist customers to improve existing systems, continuously identifying the most technically feasible and most economic solutions for customers.


培训
Employee training


督导
Cable laying supervision



安装
Installation


户外终端
Outdoor termination

成功案例
SUCCESSFUL CASES

俄罗斯国家电网工程
Kerch Strait Energy Bridge Project

俄罗斯刻赤海峡高压海底光电复合缆项目，全长220km，是亨通高压第一次大批量生产220kV光纤复合海底电缆。

Total length is 220km, It is the first time for Hengtong Submarine Power Cable Co., Ltd to volume-produce 220kV optic electric composite submarine cable.





欧洲某海上浮式风电总包项目
European Floating Wind Farm EPC Project

亨通在欧洲高端市场的重要突破，实现从产品生产商到EPC总包服务的华丽转型。

Hengtong's important breakthrough in the high-end market in Europe. Realizing the magnificent transformation from product manufacturer to EPC contracting service provider.



舟山500kV联网输变电工程海底电缆项目

Zhoushan 500kV Network Power Transmission and Transformation Project

继2018年成功交付世界首条大长度(18.15km)500kV无接头交联聚乙烯绝缘海底电缆并投入使用后。2019年5月，亨通高压再次交付浙江舟山500kV联网北通道第二回输电线路工程中应用的海底电缆，总长17.4km。

Following the successful delivery of the world's first large-length (18.15km without joints) 500kV XLPE submarine cable into service in 2018. In May 2019, Hengtong Submarine Power Cable Co.,Ltd. delivered the second circuit of this project, with a total length of 17.4 kilometers.



土耳其海缆项目

Turkey submarine cable project

2015年1月27日，亨通高压成功为土耳其最终用户UEDAS供货大长度中压三芯海底电缆，总长度为11.5km，是亨通高压第一次大长度的海缆出口项目。该项目34.5kV三芯海底电缆大长度无接头采用托盘交付，直接吊装上船。

On January 27,2015, Hengtong successfully supplied medium voltage three-core submarine cable for our customer UEDAS in Turkey. With total length of 11.5km, it was the first time Hengtong Submarine Power Cable Co., Ltd exported great length submarine cable. In this project, 34.5kV non-joint three-core submarine cable was transferred by tray and loaded directly into the transport ship.



220kV龙源大丰海上风电项目

Longyuan Dafeng 220kV Offshore Wind Farm Power Project

江苏龙源大丰220kV海上风电项目，亨通创造了220kV交联聚乙烯海底电缆单根无接头最长30.2km的世界纪录，总长3×30.2km。

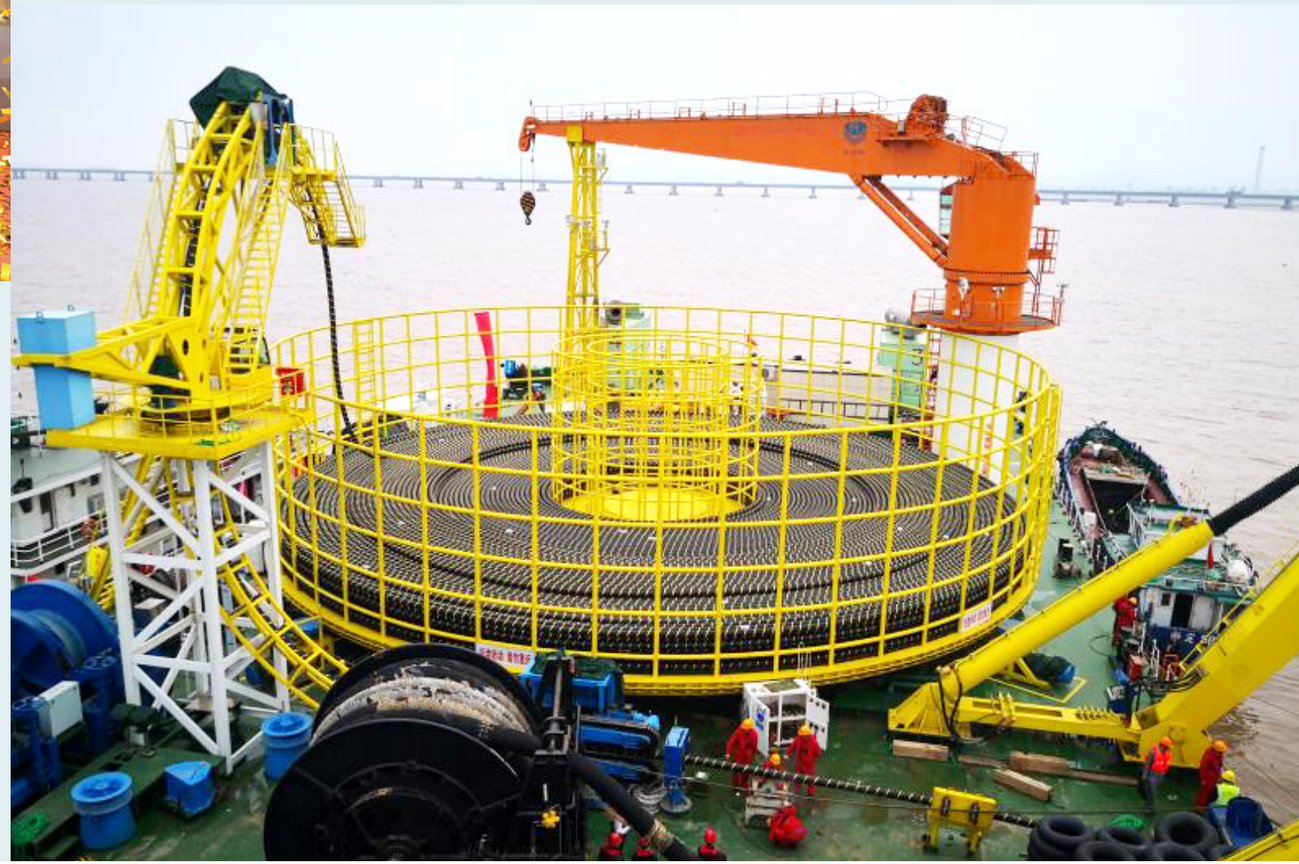
Longyuan Dafeng 220kV Offshore Wind Power Project. Hengtong has set a world record for 220kV XLPE submarine cable with the longest cable length of 30.2 km without joint.

三峡大连庄河项目

Three Gorges Dalian Zhuanghe Wind Farm Power Project

三峡大连庄河300MW海上风电项目中应用的220kV 3×500单根无接头海缆，总长2×27km，创造220kV海缆单根最长无接头世界纪录，荣登中宣部纪念改革开放40周年大型纪录片《我们一起走过》。

The total length of 220kV 3×500 submarine cable installed in the 300MW offshore wind power project of Dalian Zhuanghe project is 27 * 2km(single length without joint),It has broken the world record for the largest production length of 220kV 3 * 500. This project was featured in the documentary film “ we walked together “ of Publicity Department of the Communist Party of China to commemorate the 40th anniversary of China’ s reform and opening up.





中广核阳江南鹏岛400MW海上风电项目

CGN Yangjiang NANPENG Island 400MW Offshore Wind Farm Power Project

亨通自主研发的220kV 3×500mm²交联聚乙烯绝缘光纤复合海底电缆，单根长度达到35.72km。

该项目是目前国内单体最大400MW海上风电项目。项目建成投产后，预计每年可节约标煤约33.66万吨，减排二氧化碳约67万吨，为广东省打造全省海洋经济发展重要增长级做出积极贡献。

The 220kV 3×500mm ² XLPE optic electric composite submarine cable independently developed by Hengtong has a single length of 35.72km.

The project is currently the largest single 400MW offshore wind power project in China. After the project is completed and put into operation, it is expected to save about 336600 tons of standard coal and reduce co2 emissions by about 670,000 tons annually, making a positive contribution in Guangdong Province to build an important growth level of marine economic development.

中广核如东海上风电场示范工程

Rudong Offshore Wind Farm Demonstration Project of China Guangdong Nuclear Power Company

该项目电缆总长度55.385km，是我国首个满足“双十”规定（水深-10m以上、距岸10km以上）的海上风电项目，预计建成投产后，年上网电量超4亿千瓦时。

Total length of cable is 55.385km in this project, and it is the first offshore wind farm project that meets the ‘Double 10’ regulation in China (“Double 10 regulations” means depth of water is more than 10 meters and more than 10km away from coast). It is estimated that after the completion of the project, the generated energy will be more than 400 million KWH every year.





浙江舟山至鱼山项目

Submarine and land cable laying project from Zhoushan to Yushan in Zhejiang Province

2020 年 3 月，满载亨通专为舟山 - 鱼山项目研制的 220kV 大截面海缆的启帆 9 号海缆敷设船舶在常熟经济技术开发区亨通物流码头顺利起航。据悉，该项目（海缆 59.25km、铅护套陆缆 10.97km）投运后，将打通浙江舟山本岛至鱼山岛的供电通道，大大提高鱼山岛供电能力的同时，为岛上中国最大的炼化项目-总投资 1731 亿元的舟山浙石化 4000 万吨 / 年炼化一体化项目提供能源支持。

In March 2020, Qifan No.9 Cable-laying vessel loaded with 220kV large cross-section submarine cable which developed by Hengtong for “Zhoushan Yushan project” has successfully set sail at Hengtong Port of Changshu City. After putting into operation (59.25km submarine cable and 10.97km land cable) , it will open the power supply channel from Zhoushan Island to Yushan Island, greatly improve the power supply capacity of Yushan Island, and also provide energy support for the 40 million ton / year refining and chemical integration project of Zhoushan Zhejiang Petrochemical Company with a total investment of 173.1 billion yuan.

广州市轨道交通十八号线主变电工程

Main Substation Project Of Guangzhou Rail Transit Line 18

全线均使用亨通高压电缆，110kV大截面交流电力电缆，长度超100km。

Hengtong high-voltage cable and 110kV large cross-section AC power cable are used for all lines, with a length of more than 100km.



企业文化
CORPORATE CULTURE

核心理念 CORE CONCEPTS

企业愿景：打造世界知名品牌，成就国际优秀企业

企业精神：敢攀高峰，敢创大业，敢为人先，敢争一流

企业价值观：成败源于战略，卓越源于管理，产品源于人品，地位源于作为

企业使命：传输进步，繁荣社会

企业宗旨：创造卓越，崇尚文明

企业哲学：以人为本，品行为先

Enterprise vision: to build a world-famous brand and become an international excellence enterprise

Enterprise spirit: Dare to climb the peak, dare to create great business, dare to be the first, dare to compete for the first class

Enterprise values: Success or failure comes from strategy, excellence comes from management, product comes from character, Status comes from performance

Corporate mission: transmission progress, prosperity of society

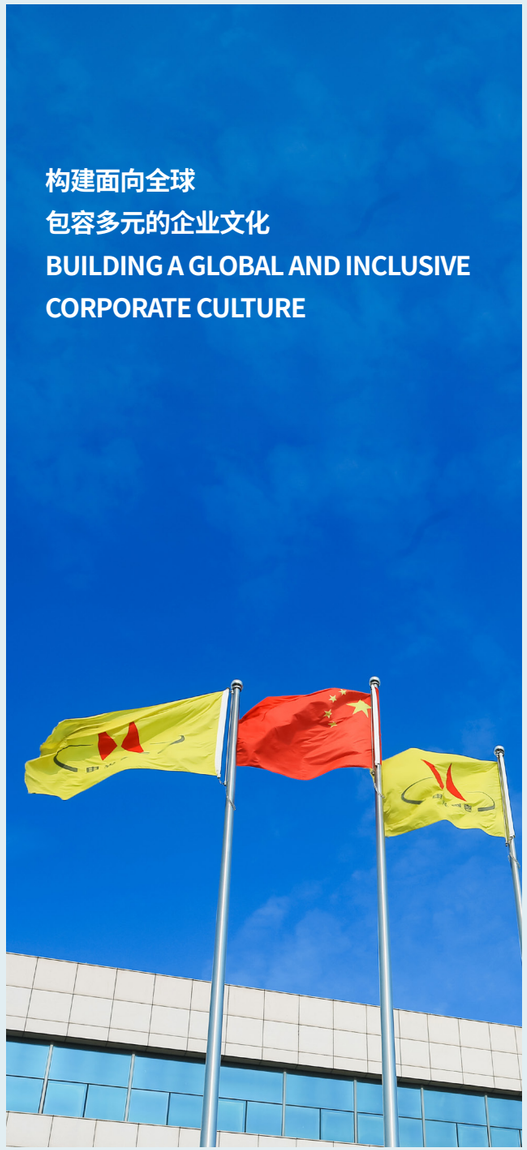
Enterprise purpose: to create excellence, advocate civilization

Corporate philosophy: people oriented, product performance first

战略决定发展力、文化决定凝聚力、团队决定执行力、管理决定竞争力。亨通在20多年的文化融合实践中，将企业的竞争优势、党的群团优势、人才的创新优势，融汇贯通，形成了“六位一体”的创业、创新、创造文化，推动企业持续发展。未来，亨通将努力构建面向全球、包容多元的企业文化，把全体员工的聪明才智凝聚到实现企业的“全球化之梦”上，成就百年亨通。

Strategy determines development, culture determines cohesion, team determines execution, and management determines competitiveness. In the practice of cultural integration for more than 20 years, Hengtong has integrated the competitive advantages of the enterprise, the advantages of the party and the masses, the innovation advantages of talents, and formed a culture of entrepreneurship, innovation and creation to promote the sustainable development of the enterprise. In the future, Hengtong will strive to build a globally oriented and inclusive corporate culture, pool the talents of all employees to realize the "Dream of globalization", and achieve a century of success.

构建面向全球
包容多元的企业文化
BUILDING A GLOBAL AND INCLUSIVE CORPORATE CULTURE



员工风采
COMPANY ACTIVITIES























社会责任
SOCIAL RESPONSIBILITY

社会责任是企业的第一责任，贡献社会始终是亨通的价值追求。
Social responsibility is the first responsibility of an enterprise. Contributing to the society is always the value pursued by Hengtong.

亨通在追求可持续发展、绿色发展、循环发展中，不仅为股东创造价值，为员工成长搭建舞台，更注重与各利益相关方关系的和谐稳定发展，热心公益慈善事业、积极回馈社会，弘扬社会正能量，彰显企业社会价值。

In pursuit of sustainable development, green development and circular development, Hengtong not only creates value for shareholders and sets a stage for employees' growth, but also pays more attention to the harmonious and stable development of relations with various stakeholders. Hengtong is enthusiastic about public welfare and charity, actively giving back to society, carries forward the positive energy of society, and highlights the social value of the enterprise.

亨通慈善理念
Hengtong Charity Concept

从身边做起
从当地做起
从弱势群体做起
Start by your side
Start locally
Start with the vulnerable groups

真心慈善
终身慈善
全员慈善
Charity from the heart
Lifelong charity
All staff involved in charity

亨通慈善特色：四救四扶 精准慈善
Characteristics Of Hengtong Charity:
Four Rescues and Four Supports; Precision Charity

救贫救困
救病救灾
Poverty relief and Save the poor
Rescue and relief

扶老扶幼
扶弱扶残
Supporting the old and the young
Supporting the weak and the disabled

合作发展
CO-OPERATION AND DEVELOPMENT

国内客户
Domestic customers

中国华能 CHINA HUANENG
国家电投 SPIC
国家能源集团 CHN ENERGY
中国三峡 China Three Gorges Corporation
国家电网 STATE GRID CORPORATION OF CHINA
中国南方电网 CHINA SOUTHERN POWER GRID
中广核集团
中国华电 CHINA HUADIAN CORPORATION
ZHEJIANG ENERGY
福能集团 FUJIAN ENERGY GROUP
中国海洋石油总公司 CHINA NATIONAL OFFSHORE OIL CORP.
上海临港 SHANGHAI LINGANG
江苏交控
中船重工 CSIC
中国电建 POWERCHINA
中国水电 SINOHYDRO
河北建投 HCIG
中国大唐集团公司 China Datang Corporation
中国国电 CHINA GUODIAN
中国中铁
中国节能 CHINA ENERGY CONSERVATION AND ENVIRONMENTAL PROTECTION
中国石油
Sinopec
中国交建 CHINA COMMUNICATIONS CONSTRUCTION
沙钢集团 SHAGANG GROUP
BAOSTEEL
华潤電力 CR Power

国外客户
International customers

Федеральная Сетевая Компания Единой Энергетической Системы
РОССЕТИ
REN
РОСНЕФТЬ
SYMBION
ADNOC أدنوك
חברת החשמל Israel Electric
sapura energy
PETRONAS reimagining energy
bp
NOOC
PERTAMINA
enel
MADKOUR
نفط عمان omanoil
PFISTERER

企业荣誉
COMPREHENSIVE STRENGTH

亨通高压不改初心、载誉前行，先后成为高新技术企业、智能化改造优秀企业、智能化改造优秀企业、国家级绿色工厂、国家级企业技术中心、两化融合贯标管理体系试点企业，并荣获俄罗斯能源部材料供应领域突出贡献奖、中国机械工业科学技术奖一等奖。

Hengtong Submarine Power Cable Co., ltd. has never changed its original intention, and has gone forward with a high reputation. It has successively been awarded as “High-tech Enterprise”, “Outstanding Enterprise of Intellectualized Reconstruction", “National-level Green Enterprise”, "National Technology Center", "The Pilot Enterprises of Standard Management System of Informationization and Industrialization Integration ", and has won the "Outstanding Contribution Award of Russian Ministry of Energy in the field of material supply" and the first prize of "China Machinery Industry Science and Technology Award".











品牌布局
BRAND DISTRIBUTION

国际化,成就亨通全球梦。看着世界地图做企业，沿着一带一路走出去。亨通坚持“5-5-5”国际化目标，立足“3个2”，大力实施“四大融合协同”，加快实现“四大转型”,向着一流的国际化企业迈进。

Internationalization leads to the achievement of Hengtong’s global dream. Look at the world map to do business, travel along the “One Belt And One Road”. Hengtong adheres to the internationalization goal of "5-5-5", based on the "3-twos", and vigorously implements the " Four convergence collaborations", speeds up the realization of the "Four transformations", and strives to become a first-class international enterprise.





“3个2”:

国际国内两个市场:
Two markets: International and Domestic

国际国内两种资源:
Two resources: International and Domestic

国际国内两大资本渠道:
Two capital channels: International Capital Channel and Domestic Capital Channel

四大融合协同:
" Four convergence collaborations"

产业经营与资本经营融合协同: Industrial operation and capital operation are integrated and coordinated
制造服务与互联网融合协同: Integration of manufacturing services and the Internet
国内资源与国际资源融合协同: Integration and coordination of domestic and international resources
本土文化与外域文化的融合协同: The integration of local culture and out-land culture

“四大转型”:
"Four transformations"

生产研发型企业向创新创造性企业转型: The transformation of production research and development enterprises into the innovation creative enterprises
产品供应商向全价值链集成服务商转型: The transformation of product suppliers into the full value chain integrated service providers
制造型企业向平台服务型企业转型: The transformation of manufacturing enterprises into platform service enterprises
本土企业向国际化企业转型: The transformation of local enterprises into international enterprises

国内外市场技术服务机构
DOMESTIC & FOREIGN MARKET SERVICE OFFICES

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国内外市场技术服务机构
DOMESTIC & FOREIGN MARKET SERVICE OFFICES

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HENGTONG SUBMARINE POWER CABLE CO., LTD

常熟经济技术开发区通达路8号
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