



中天科技 专注 精细制造
ZTT FOCUSES ON PRECISION MANUFACTURING



中天科技装备电缆——船用电缆

ZTT Industrial Wire & Cable System

Shipboard Cables According to IEC 60092-350/353/354/376

中天科技装备电缆有限公司

Zhongtian Technology Industrial Wire & Cable System Co.,Ltd.

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October 2017

中天科技装备电缆有限公司
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	CJPF/SC,CJPJ/SC,CJV/SA	17
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交联聚乙烯绝缘通信及仪表电缆 /XLPE Insulated Communication & Instrumentation Cable

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	CHJ86/SC,CHJ85/SC,CHJ82/SA	43
	CHJP86/SC,CHJP85/SC,CHJP82/SA	47
耐火 Fire Resistant	CHJPF86/NC,CHJJP85/NC,CHJV82/NA	52
	CHJFP86/NC,CHJJP85/NC,CHJVP82/NA	56
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COMPANY PROFILE 公司简介

江苏中天科技股份有限公司是国内线缆品种最齐全的专业公司，总部位于北京市西城区金融大街33号通泰大厦B座，作为“中国特种光缆第一股”于2002年10月24日在上海证券交易所上市，证券代码：600522。公司主营的光纤、光缆、各种电缆及海缆产品，已形成近百个系列，上千个品种，并拥有800多项专利。产品运行在国家电网公司、南方电网公司、中海油、中石油、中石化、中船系统、中远系统、总参通信部和海军司令部、国电通信中心的一级干线。全介质自承式光缆（ADSS）、光纤复合架空地线（OPGW）、海底光缆（SOFC）、960芯光纤带光缆和软光缆分别被列为国家火炬项目和国家级新品。

为了促进装备电缆生产的专业化和精细化，江苏中天科技股份有限公司通过将原有子公司的优质资源优化整合，于2010年1月组建新的全资子公司中天科技装备电缆有限公司，专业从事装备电缆的研发和生产。公司位于江苏省南通经济技术开发区，占地面积158000平方米，厂房建筑面积98000平方米，公司注册资金4.38亿元人民币，累计投资超10亿元人民币。

■ 丰富的产品结构和先进的生产设备

公司主营产品是船舶及海洋工程用电线电缆、轨道车辆用电缆、新能源电缆（风能电缆、光伏电缆）、电动汽车充电桩用电缆、航空线缆、矿用电缆、港机电缆等工业装备用电线电缆。公司现已建成20000m²塑料绝缘电缆生产车间和橡皮绝缘电缆生产车间各一个、一个辐照加工中心（3MeV、4.5MeV电子加速器各一台）、一个国内先进的电缆橡胶材料加工中心，具备了年生产长度50000公里、产值20亿元的特种电缆的生产能力。目前，船用电缆、海工电缆已通过了ABS、BV、CCS、DNV-GL、KR、LR、NK、CRS、RS和RINA的工厂型式认可和产品认可。

■ 一流的技术研发能力

在国家电线电缆质量监督检验中心（TICW）和德国莱茵TUV技术有限公司的指导下组建了中天科技特种电缆检测中心。公司还成立了国内检测和试验设备最齐全的企业电线电缆检测中心和燃烧实验室，可进行阻燃、耐火、毒性指数、耐高低温等关键性能测试。检测中心已经获得CNAS认证。公司引进了国际先进的全面质量管理程序与体系，保障了产品生产的稳定与质量一致性。

■ 宏伟的发展蓝图

精细制造、科技创新；顾客满意、成就卓越！

中天科技装备电缆有限公司以其独特的区位优势和技术条件，一流的制造、检测设备和专业技术，完善的质保体系和配套技术服务以及强有力的团队奠定了中天科技装备电缆在业界的优势地位。

中天科技装备电缆有限公司热忱欢迎广大用户、专家、朋友莅临指导！

With the head-quarter located in Block B TongTai Mansion No.33 Financial Street, Xicheng District, Beijing Zhongtian Technology Co., Ltd (abbr. ZTT hereafter) is now the most complete manufacturer specialized in various of professional cables in China. Famed "The first stock of special fiber optic cable in China", ZTT issues stock 'A' on 24 Oct 2002 in Shanghai and becomes a public company (Stock No.: 600522). The product family includes optic fiber, optic fiber cable, various power cables and submarine cables, and has formed near one hundred series, over one thousand types and more than 800 patents. ZTT products have been comprehensively used in State Grid Corp, South China Power Grid, China National Offshore Oil Corp, China National Petroleum Corporation, China Petroleum Chemical Corporation, Communication Department of Headquarters of the General Staff of PLA, General Headquarters of PLA Naval and First-rate Lines of Communication Centre of National Grid. ZTT's ADSS, OPGW, SOFC, 960 Cores Fiber Ribbon FOC and Soft FOC are listed respectively in China National Torch Program Items and National Innovative Products.

In order to make the production of industrial wire and cable professional and meticulous, Zhongtian Technology Industrial Wire & Cable System Co., Ltd, a subsidiary of ZTT specialized in researching and producing industrial wire and cable, is founded in January, 2010.

Zhongtian Technology Industrial Wire & Cable System Co., Ltd locates in Nantong Economic & Technological Development Zone with an area of 158,000m² and floor area of 98,000m². The gross investment is RMB1000, 000,000 with registered capital RMB438, 000,000.

■ Plentiful Product & Advanced Equipment

The products family includes marine cable, rolling stock cable, port machinery cable, offshore cable, low temperature wind power cable, cable applied in nuclear power station and photoelectric equipment, mine cable, elevator cable, rubber-sheathed cable, welder cable, electric motor connection cable and other electric devices wires and cables, in which all kinds of wires and cables are involved. The company has built a plastic-insulated cable workshop and a rubber-insulated cable workshop, and each one covers an area of 20000m². There is an irradiation center equipped two electronic accelerators (3MeV and 4.5MeV) and also a center for processing advanced rubber material of cable in the company. Attributed to these facilities, the annual production capacity of Zhongtian Technology Industrial Wire & Cable System Co., Ltd is now up to 50000km with sales of RMB2,000, 000,000. And the marine and offshore cable has been appraised by ABS, BV, CCS, DNV, GL, KR, LR, NK, CRS, RS and RINA so far.

■ Advanced R&D Capabilities

Under the instruction of China Test and Inspection Center of Wire & Cable (TICW) and TUV Rhineland Technology Co., Ltd, ZTT also established Test Center for Special Cable. The research center and the test center focus on technical development in insulating, high and low temperature resistant, oil resistant materials. The wire & cable testing center with completed testing equipment also founded to control the products' quality and stability, particularly in cable's crucial performances such as flame retardant, fire resistance, toxicity index. It introduces international-level advanced Total Quality Management System to ensure the production stable and in good quality.

■ Future Plans

Our slogan: Precision Manufacturing, Technological Innovation; Customer Satisfaction, Outstanding achievements! Supported by the special location superiority, technology strength, first class manufacture and testing equipments, completed quality control system and technical service, Zhongtian Technology Industrial Wire & Cable System Co., Ltd has attracted a powerful team and set up a good public relationship, which lays the foundations of dominant position in this field.

Warmly welcome to Zhongtian Technology Industrial Wire & Cable System Co., Ltd!



CERTIFICATES BY CLASSIFICATION SOCIETY 船级社证书



• DNV GL •



• ABS •



• LR •



• BV •



• KR •



• NK •



• CCS •



• RINA •

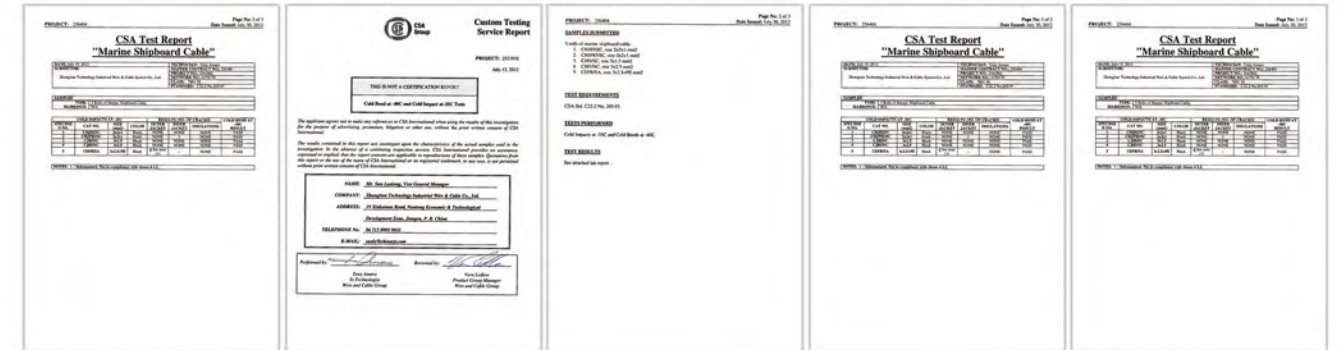


• RS •

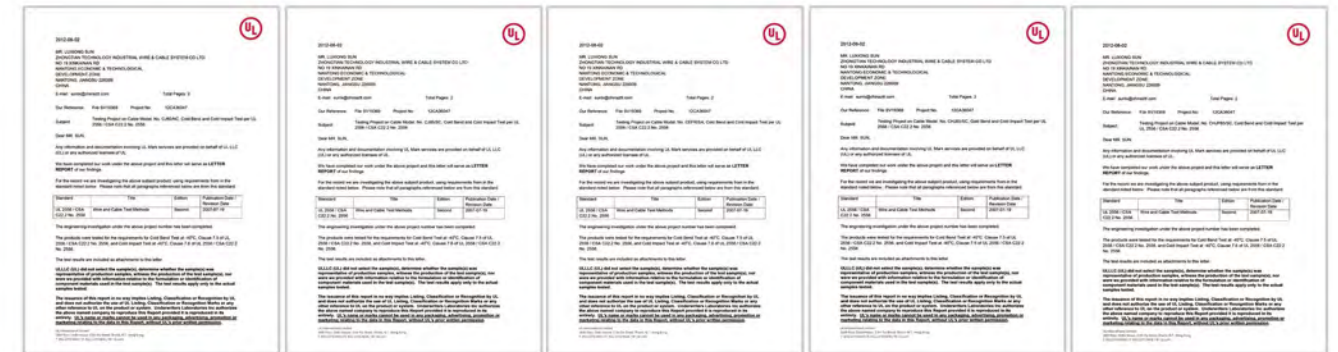


• CRS •

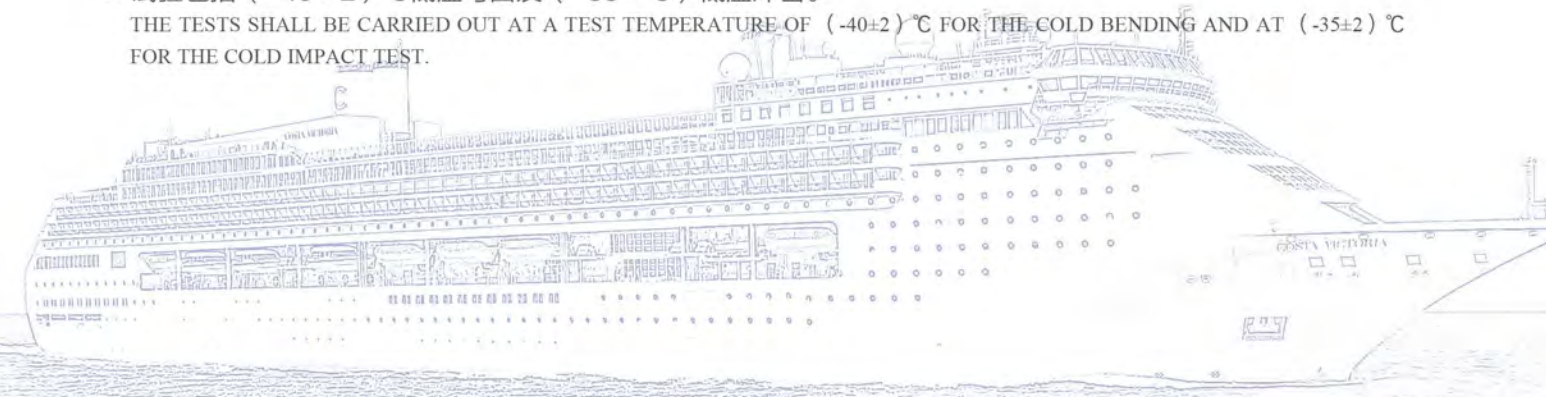
COLD TEST REPORT BY CSA CSA低温检测报告



COLD TEST REPORT BY UL UL低温检测报告



■ 试验包括 $(-40 \pm 2)^\circ\text{C}$ 低温弯曲及 $(-35 \pm 2)^\circ\text{C}$ 低温冲击。
THE TESTS SHALL BE CARRIED OUT AT A TEST TEMPERATURE OF $(-40 \pm 2)^\circ\text{C}$ FOR THE COLD BENDING AND AT $(-35 \pm 2)^\circ\text{C}$ FOR THE COLD IMPACT TEST.



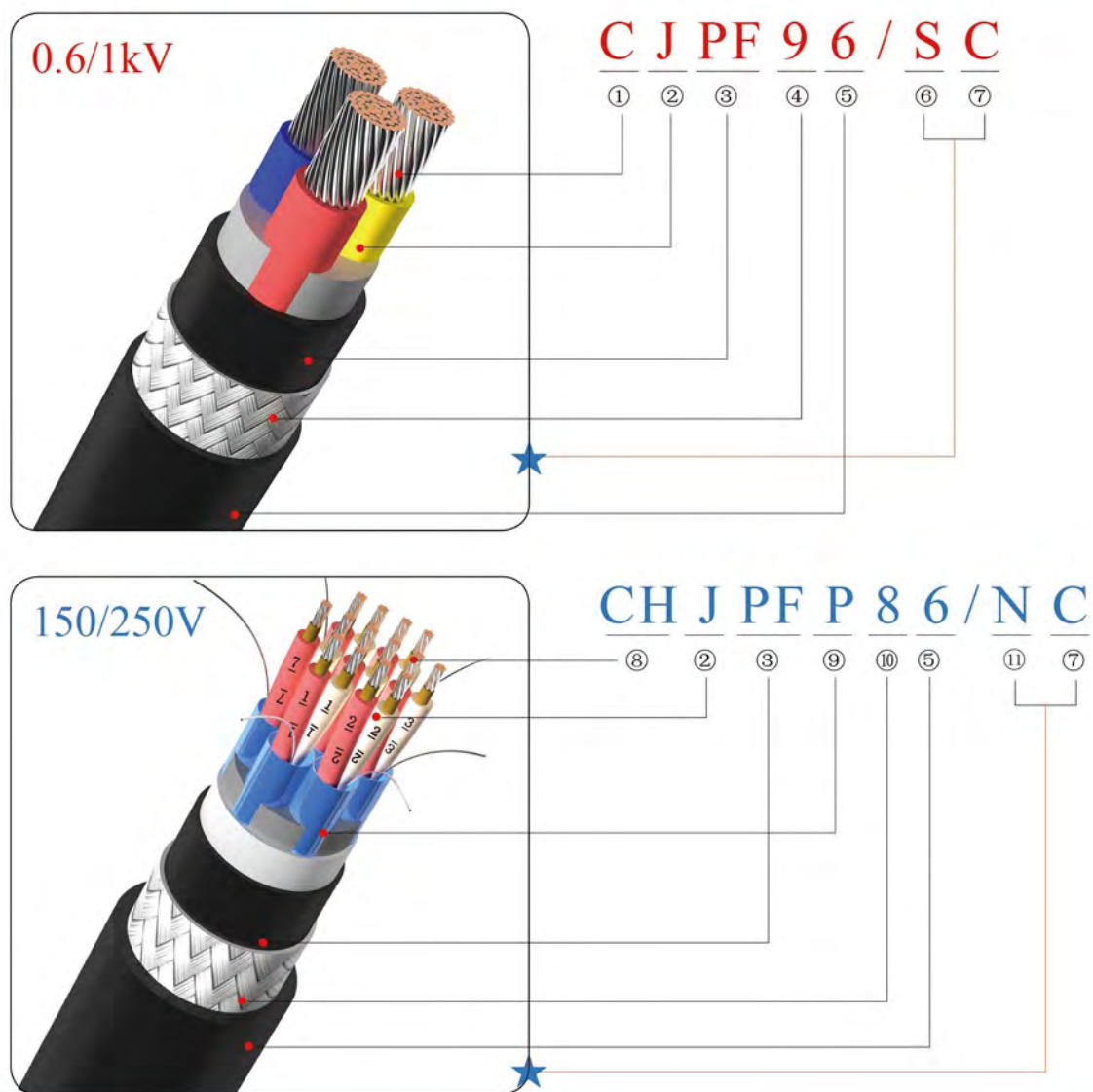
SYSTEM CERTIFICATE 体系认证证书



CABLE CODE DESIGNATION 型号说明

1、电缆系列代号 Code for Cable Series	
船用电力及控制电缆 Shipboard Power & Control Cable	C
船用通信及仪表电缆 Shipboard Communication & Instrumentation Cable	CH
2、绝缘代号 Code for Insulation	
交联聚乙烯绝缘 XLPE Insulated	J
3、内护套（内衬层）代号 Code for Inner Sheath or Inner Covering	
交联聚烯烃护套（热固型） Cross-linked PO Sheath(SHF2)	PJ
聚烯烃护套（热塑型） PO Sheath(SHF1)	PF
聚氯乙烯护套 PVC Sheath (ST2)	V
4、铠装代号 Code for Armour	
铜丝编织 Tinned Copper(or Plain)Wire Braided	8
镀锌钢丝编织 Galvanized Steel Wire Braided	9
5、外护套代号 Code for Outer Sheath	
聚氯乙烯外护套 PVC Outer Sheath (ST2)	2
交联聚烯烃外护套（热固型） Cross-linked PO Outer Sheath(SHF2)	5
聚烯烃外护套（热塑型） PO Outer Sheath(SHF1)	6
6、其他结构代号 Code for Other Construction	
导电线芯为软结构 Flexible Conductor	R
铝塑复合带线芯或线对分屏蔽 Wire or Pair with Individual Screen(AL/PS Tape)	P
地线 Ground Core	G
7、燃烧特性代号 Code for Flammability	
成束阻燃 Bunched Cable Flame Retardant	SA
成束阻燃，低烟，无卤，低毒 Bunched Cable Flame Retardant, Halogen-free, Low-smoke, Low-toxicity	SC
耐火 Fire Resistant	NA
耐火，低烟，无卤，低毒 Fire Resistant, Halogen-free, Low-smoke, Low-toxicity	NC

SAMPLE
例图



- | | |
|--|---|
| 1、电力及控制电缆 POWER & CONTROL CABLE | 7、低烟, 无卤, 低毒 HALOGEN-FREE,LOW-SMOKE,LOW-TOXICITY |
| 2、交联聚乙烯绝缘 XLPE INSULATED | 8、通信及仪表电缆 COMMUNICATION & INSTRUMENTATION CABLE |
| 3、聚烯烃护套 (热塑型) PO SHEATH(SHF1) | 9、分屏蔽 INDIVIDUAL SCREEN(AL/PS TAPE WITH A DRAIN WIRE) |
| 4、镀锌钢丝编织 GALVANIZED STEEL WIRE BRAIDED | 10、铜丝编织 TINNED COPPER(OR PLAIN)WIRE BRAIDED |
| 5、聚烯烃外护套 (热塑型) PO OUTER SHEATH(SHF1) | 11、耐火 FIRE RESISTANT |
| 6、成束阻燃 BUNCHED CABLE FLAME RETARDANT | |

XLPE INSULATED FLAME RETARDANT
LOW VOLTAGE POWER & CONTROL CABLES

交联聚乙烯绝缘阻燃低压电力及控制电缆



XLPE INSULATED FLAME RETARDANT LOW VOLTAGE POWER & CONTROL CABLES 交联聚乙烯绝缘阻燃低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJP86/SC,CJP85/SC,CJPF96/SC,CJPJ95/SC

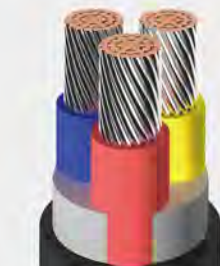
参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360,XLPE
护套材料 Sheath Material	IEC 60092-360,SHF1,SHF2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温-25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max.Rated Conductor Temperature:90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable		
内衬层或内护套 Inner Covering or Inner Sheath	热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360 热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360		
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid 镀锌钢丝编织 Galvanized steel wire braid		
外护套 Outer Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360		
线芯标识 Core Identification	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue,棕色 Brown	
	三芯 Three cores	黑色 Black, 棕色 Brown, 灰色 Grey	蓝色 Blue, 棕色 Brown, 黄/绿 Yellow/Green
	四芯 Four cores	蓝色 Blue,棕色 Brown, 黑色 Black, 灰色 Grey	黑色 Black, 棕色 Brown, 灰色 Grey,黄/绿 Yellow/Green
五芯及以上 5 cores and above	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing
注: 1.字母“G”标示该电缆有一根接地线芯。 2.若客户特殊要求,其他标识方法亦可采用。 Note: 1.The letter “G” means that cable has the ground core 2.The other color scheme may be applicable when purchaser required.			

XLPE INSULATED FLAME RETARDANT LOW VOLTAGE POWER & CONTROL CABLES 交联聚乙烯绝缘阻燃低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJV82/SA,CJV92/SA

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360,XLPE
护套材料 Sheath Material	IEC 60092-360,ST2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
低温-25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max.Rated Conductor Temperature:90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable		
内衬层或内护套 Inner Covering or Inner Sheath	聚氧乙烯 ST2 as per IEC 60092-360		
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid 镀锌钢丝编织 Galvanized steel wire braid		
外护套 Outer Sheath	聚氧乙烯 ST2 as per IEC 60092-360		
线芯标识 Core Identification	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue,棕色 Brown	
	三芯 Three cores	黑色 Black, 棕色 Brown, 灰色 Grey	蓝色 Blue, 棕色 Brown, 黄/绿 Yellow/Green
	四芯 Four cores	蓝色 Blue,棕色 Brown, 黑色 Black, 灰色 Grey	黑色 Black, 棕色 Brown, 灰色 Grey,黄/绿 Yellow/Green
五芯及以上 5 cores and above	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing
注: 1.字母“G”标示该电缆有一根接地线芯。 2.若客户特殊要求,其他标识方法亦可采用。 Note: 1.The letter “G” means that cable has the ground core 2.The other color scheme may be applicable when purchaser required.			

No. × mm ²	Diameter		Approx. Weight				Conductor resistance at 20°C Ω/km	Insulation resistance at 20°C MΩ*km
	Nominal	Tolerance	CJV82/SA	CJV92/SA	CJPF86/SC CJPJ85/SC	CJPF96/SC CJPJ95/SC		
1×1	7.6	0.7	82	80	83	81	18.2	1170
1×1.5	7.8	0.7	89	87	92	89	12.2	1050
1×2.5	8.2	0.7	105	102	108	105	7.56	840
1×4	8.8	0.7	128	125	131	128	4.70	720
1×6	9.4	0.7	157	153	158	155	3.11	600
1×10	10.4	0.7	211	207	215	211	1.84	480
1×16	11.4	0.7	274	270	276	272	1.16	390
1×25	13.2	0.8	393	388	396	391	0.734	420
1×35	14.4	0.8	495	489	497	491	0.529	360
1×50	16.6	0.9	676	666	680	669	0.391	330
1×70	18.6	1.0	909	897	912	901	0.270	300
1×95	20.6	1.0	1169	1156	1174	1160	0.195	270
1×120	22.5	1.1	1442	1428	1447	1433	0.154	270
1×150	24.6	1.2	1748	1731	1753	1737	0.126	270
1×185	27.0	1.2	2130	2112	2136	2118	0.100	270
1×240	29.9	1.3	2715	2695	2722	2702	0.0762	240
1×300	32.7	1.4	3325	3303	3333	3311	0.0607	240
2×1	10.6	0.7	152	148	154	150	18.2	1170
2×1.5	11.2	0.7	174	169	176	172	12.2	1050
2×2.5	12.0	0.7	209	205	212	207	7.56	840
2×4	13.4	0.8	267	262	270	265	4.70	720
2×6	14.4	0.8	327	321	330	324	3.11	600
2×10	16.8	0.9	482	472	486	476	1.84	480
2×16	19.0	1.0	637	626	642	630	1.16	390
2×25	22.4	1.1	912	897	917	902	0.734	420
2×35	24.8	1.2	1167	1150	1173	1156	0.529	360
2×50	28.2	1.3	1516	1497	1523	1504	0.391	330
2×70	32.4	1.4	2041	2019	2050	2027	0.270	300
2×95	36.8	1.6	2688	2663	2699	2674	0.195	270
2×120	41.0	1.7	3403	3365	3416	3378	0.154	270
2×150	45.0	1.9	4094	4052	4109	4066	0.126	270
2×185	50.4	2.0	5091	5044	5109	5062	0.100	270
2×240	56.2	2.2	6464	6411	6486	6432	0.0762	240
2×300	62.2	2.4	7958	7899	7984	7925	0.0607	240
3×1	11.0	0.7	171	167	174	170	18.2	1170
3×1.5	11.8	0.7	197	193	199	195	12.2	1050
3×2.5	12.6	0.8	244	239	246	241	7.56	840
3×4	14.0	0.8	317	312	321	316	4.70	720
3×6	15.2	0.9	399	393	402	396	3.11	600
3×10	17.8	0.9	595	584	599	588	1.84	480
3×16	20.0	1.0	795	783	800	787	1.16	390
3×25	23.8	1.1	1178	1162	1184	1168	0.734	420
3×35	26.4	1.2	1507	1489	1513	1495	0.529	360
3×50	30.2	1.4	2000	1979	2008	1987	0.391	330
3×70	35.0	1.5	2755	2731	2765	2741	0.270	300
3×95	39.2	1.7	3588	3561	3600	3573	0.195	270
3×120	43.8	1.8	4560	4519	4574	4533	0.154	270
3×150	48.5	2.0	5550	5505	5567	5522	0.126	270
3×185	53.9	2.1	6833	6782	6853	6802	0.100	270
3×240	60.5	2.4	8797	8740	8823	8765	0.0762	240
3×300	66.5	2.6	10795	10732	10824	10761	0.0607	240

No. × mm ²	Diameter		Approx. Weight				Conductor resistance at 20°C Ω/km	Insulation resistance at 20°C MΩ*km
	Nominal	Tolerance	CJV82/SA	CJV92/SA	CJPF86/SC CJPJ85/SC	CJPF96/SC CJPJ95/SC		
4×1	11.8	0.7	196	192	198	194	18.20	1170
4×1.5	12.6	0.8	232	228	235	230	12.20	1050
4×2.5	13.6	0.8	293	287	296	291	7.56	840
4×4	15.2	0.9	381	375	384	378	4.70	720
4×6	17.0	0.9	518	508	522	511	3.11	600
4×10	19.4	1.0	732	720	736	724	1.84	480
4×16	22.0	1.1	998	984	1003	989	1.16	390
4×25	26.0	1.2	1482	1464	1488	1470	0.734	420
4×35	29.0	1.3	1907	1887	1914	1894	0.529	360
4×50	33.2	1.5	2532	2509	2541	2518	0.391	330
4×70	38.4	1.6	3494	3467	3506	3479	0.270	300
4×95	43.8	1.8	4693	4653	4708	4667	0.195	270
4×120	48.6	2.0	5857	5811	5874	5829	0.154	270
4×150	53.6	2.1	7124	7073	7144	7093	0.126	270
4×185	59.6	2.3	8771	8714	8795	8738	0.100	270
4×240	67.1	2.6	11365	11301	11395	11331	0.0762	240
4×300	73.8	2.8	13955	13884	13989	13918	0.0607	240
5×1	12.6	0.8	219	214	221	216	18.2	1170
7×1	13.6	0.8	263	258	266	261	18.2	1170
10×1	16.8	0.9	386	377	390	380	18.2	1170
12×1	17.2	0.9	422	411	425	415	18.2	1170
14×1	18.0	0.9	463	452	467	456	18.2	1170
16×1	19.0	1.0	517	506	521	510	18.2	1170
19×1	19.8	1.0	571	558	575	562	18.2	1170
24×1	22.6	1.1	702	688	708	693	18.2	1170
27×1	23.0	1.1	752	736	764	748	18.2	1170
30×1	23.8	1.1	813	797	823	807	18.2	1170
37×1	25.6	1.2	953	936	963	946	18.2	1170
5×1.5	13.6	0.8	263	258	265	260	12.2	1050
7×1.5	14.4	0.8	312	306	315	309	12.2	1050
10×1.5	18.0	1.0	459	447	463	451	12.2	1050
12×1.5	18.8	1.0	515	503	519	507	12.2	1050
14×1.5	19.4	1.0	567	555	572	559	12.2	1050
16×1.5	20.4	1.0	625	612	629	616	12.2	1050
19×1.5	21.4	1.1	704	690	709	695	12.2	1050
24×1.5	24.6	1.2	869	852	885	866	12.2	1050
27×1.5	25.2	1.2	941	924	951	934	12.2	1050
30×1.5	25.8	1.2	1006	989	1021	1003	12.2	1050
37×1.5	27.8	1.3	1185	1166	1201	1182	12.2	1050
5×2.5	14.6	0.8	331	325	334	328	7.56	840
7×2.5	16.2	0.9	439	429	443	433	7.56	840
10×2.5	19.8	1.0	599	587	604	591	7.56	840
12×2.5	20.4	1.0	667	653	671	658	7.56	840
14×2.5	21.4	1.1	753	739	758	744	7.56	840
16×2.5	22.4	1.1	834	819	839	824	7.56	840
19×2.5	23.4	1.1	934	918	946	930	7.56	840
24×2.5	27.2	1.3	1172	1153	1187	1169	7.56	840
27×2.5	27.8	1.3	1275	1256	1287	1267	7.56	840
30×2.5	28.8	1.3	1386	1366	1393	1373	7.56	840
37×2.5	31.0	1.4	1642	1620	1650	1628	7.56	840

交联聚乙烯绝缘阻燃低烟无卤电力及控制电缆

XLPE INSULATED FLAME RETARDANT LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1KV CJ86/SC,CJ85/SC

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360,XLPE
护套材料 Sheath Material	IEC 60092-360,SHF1,SHF2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温-25°C Low temperature -25°C	IEC 60092-350
最大额度导体运行温度 Max.Rated Conductor Temperature:90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable		
内衬层 Inner Covering	无卤隔氧带 Halogen free tape		
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid		
外护套 Outer Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360		
线芯标识 Core Identification	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue,棕色 Brown	
	三芯 Three cores	黑色 Black,棕色 Brown,灰色 Grey	蓝色 Blue,棕色 Brown,黄/绿 Yellow/Green
	四芯 Four cores	蓝色 Blue,棕色 Brown,黑色 Black,灰色 Grey,	黑色 Black,棕色 Brown,灰色 Grey,黄/绿 Yellow/Green
五芯及以上 5 cores and above	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing 黄/绿 Yellow/Green	
注: 1.字母"G"标示该电缆有一根接地线芯。 2.若客户特殊要求,其他标识方法亦可采用。 Note: 1.The letter "G" means that cable has the ground core 2.The other color scheme may be applicable when purchaser required.			



XLPE INSULATED FLAME RETARDANT LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1KV CJ82/SA

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360,XLPE
护套材料 Sheath Material	IEC 60092-360,ST2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
低温-25°C Low temperature -25°C	IEC 60092-350
最大额度导体运行温度 Max.Rated Conductor Temperature:90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable		
内衬层 Inner Covering	聚氯乙烯带 PVC tape		
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid		
外护套 Outer Sheath	聚氯乙烯 ST2 as per IEC 60092-360		
线芯标识 Core Identification	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue,棕色 Brown	
	三芯 Three cores	黑色 Black,棕色 Brown,灰色 Grey	蓝色 Blue,棕色 Brown,黄/绿 Yellow/Green
	四芯 Four cores	蓝色 Blue,棕色 Brown,黑色 Black,灰色 Grey,	黑色 Black,棕色 Brown,灰色 Grey,黄/绿 Yellow/Green
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XLPE INSULATED FLAME RETARDANT LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJP/SC, CJPJ/SC

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, SHF1, SHF2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail																		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper																		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360																		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable																		
护套 Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360																		
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XLPE INSULATED FLAME RETARDANT LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJV/SA

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, ST2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail																		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper																		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360																		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable																		
护套 Sheath	聚氯乙烯 ST2 as per IEC 60092-360																		
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No. ×mm ²	Diameter		Approx. Weight		Conductor resistance at 20 C Ω/km	Insulation resistance at 20 C MΩ*km
	Nominal	Tolerance	CJV/SA	CJPF/SC CJPJ/SC		
	mm	±mm	kg/km			
1×1	4.8	0.7	33	33	18.2	1170
1×1.5	5.1	0.7	39	40	12.2	1050
1×2.5	5.5	0.7	51	52	7.56	840
1×4	6.1	0.7	69	70	4.70	720
1×6	6.6	0.7	91	91	3.11	600
1×10	7.5	0.7	134	135	1.84	480
1×16	8.5	0.7	186	187	1.16	390
1×25	10.3	0.7	288	289	0.734	420
1×35	11.4	0.7	378	379	0.529	360
1×50	13.2	0.8	512	513	0.391	330
1×70	15.3	0.9	721	723	0.270	300
1×95	17.2	0.9	960	962	0.195	270
1×120	19.1	1.0	1211	1214	0.154	270
1×150	21.2	1.1	1482	1485	0.126	270
1×185	23.5	1.1	1837	1840	0.100	270
1×240	26.4	1.2	2388	2392	0.0762	240
1×300	29.2	1.3	2966	2970	0.0607	240
2×1	7.7	0.7	69	71	18.2	1170
2×1.5	8.3	0.7	85	86	12.2	1050
2×2.5	9.3	0.7	117	119	7.56	840
2×4	10.5	0.7	156	159	4.70	720
2×6	11.5	0.7	206	208	3.11	600
2×10	13.5	0.8	311	314	1.84	480
2×16	15.7	0.9	448	450	1.16	390
2×25	19.1	1.0	683	686	0.734	420
2×35	21.5	1.1	899	903	0.529	360
2×50	24.9	1.2	1209	1213	0.391	330
2×70	28.9	1.3	1689	1694	0.270	300
2×95	33.1	1.4	2275	2281	0.195	270
2×120	36.7	1.6	2844	2851	0.154	270
2×150	40.7	1.7	3475	3484	0.126	270
2×185	45.7	1.9	4357	4369	0.100	270
2×240	51.5	2.1	5641	5654	0.0762	240
2×300	56.9	2.3	6963	6979	0.0607	240
3×1	8.1	0.7	85	86	18.2	1170
3×1.5	8.8	0.7	105	107	12.2	1050
3×2.5	9.8	0.7	150	151	7.56	840
3×4	11.1	0.7	201	203	4.70	720
3×6	12.4	0.8	280	283	3.11	600
3×10	14.4	0.8	416	420	1.84	480
3×16	16.7	0.9	594	596	1.16	390
3×25	20.4	1.0	924	927	0.734	420
3×35	23.0	1.1	1221	1224	0.529	360
3×50	26.8	1.2	1671	1676	0.391	330
3×70	31.1	1.4	2344	2350	0.270	300
3×95	35.4	1.5	3126	3133	0.195	270
3×120	39.5	1.7	3960	3969	0.154	270
3×150	43.8	1.8	4840	4850	0.126	270
3×185	49.2	2.0	6046	6059	0.100	270
3×240	55.4	2.2	7857	7872	0.0762	240
3×300	61.4	2.4	9763	9782	0.0607	240

No. ×mm ²	Diameter		Approx. Weight		Conductor resistance at 20 C Ω/km	Insulation resistance at 20 C MΩ*km
	Nominal	Tolerance	CJV/SA	CJPF/SC CJPJ/SC		
	mm	±mm	kg/km			
4×1	8.8	0.7	105	106	18.2	1170
4×1.5	9.8	0.7	139	140	12.2	1050
4×2.5	10.6	0.7	180	182	7.56	840
4×4	12.4	0.8	261	265	4.70	720
4×6	13.6	0.8	348	352	3.11	600
4×10	16.0	0.9	534	538	1.84	480
4×16	18.6	1.0	776	778	1.16	390
4×25	22.6	1.1	1201	1205	0.734	420
4×35	25.4	1.2	1591	1596	0.529	360
4×50	29.8	1.3	2169	2174	0.391	330
4×70	34.6	1.5	3040	3047	0.270	300
4×95	39.6	1.7	4094	4103	0.195	270
4×120	44.0	1.8	5147	5157	0.154	270
4×150	49.0	2.0	6333	6346	0.126	270
4×185	55.0	2.2	7896	7911	0.100	270
4×240	62.0	2.4	10289	10308	0.0762	240
4×300	69.0	2.6	12775	12797	0.0607	240
5×1	9.8	0.7	126	127	18.2	1170
7×1	10.6	0.7	156	157	18.2	1170
10×1	13.4	0.8	215	219	18.2	1170
12×1	13.8	0.8	245	249	18.2	1170
14×1	14.6	0.8	281	285	18.2	1170
16×1	15.6	0.9	324	328	18.2	1170
19×1	16.4	0.9	368	372	18.2	1170
24×1	19.2	1.0	460	466	18.2	1170
27×1	19.6	1.0	504	510	18.2	1170
30×1	20.4	1.0	556	563	18.2	1170
37×1	22.2	1.1	674	682	18.2	1170
5×1.5	10.6	0.7	155	156	12.2	1050
7×1.5	11.4	0.7	191	194	12.2	1050
10×1.5	14.6	0.8	272	276	12.2	1050
12×1.5	15.4	0.9	323	328	12.2	1050
14×1.5	16.0	0.9	363	368	12.2	1050
16×1.5	17.0	0.9	413	418	12.2	1050
19×1.5	18.0	0.9	476	483	12.2	1050
24×1.5	21.2	1.1	601	609	12.2	1050
27×1.5	21.8	1.1	666	674	12.2	1050
30×1.5	22.4	1.1	724	732	12.2	1050
37×1.5	24.4	1.2	878	887	12.2	1050
5×2.5	11.6	0.7	208	211	7.56	840
7×2.5	12.8	0.8	274	277	7.56	840
10×2.5	16.4	0.9	390	394	7.56	840
12×2.5	17.0	0.9	454	460	7.56	840
14×2.5	18.0	0.9	524	530	7.56	840
16×2.5	19.0	1.0	593	599	7.56	840
19×2.5	20.0	1.0	680	686	7.56	840
24×2.5	23.8	1.1	871	880	7.56	840
27×2.5	24.4	1.2	967	976	7.56	840
30×2.5	25.2	1.2	1056	1065	7.56	840
37×2.5	27.4	1.3	1284	1294	7.56	840



**XLPE INSULATED, FIRE RESISTANT & FLAME RETARDANT
LOW VOLTAGE POWER & CONTROL CABLES**

交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆

XLPE INSULATED, FIRE RESISTANT & FLAME RETARDANT, LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJP86/NC,CJPJ85/NC,CJPF96/NC,CJPJ95/NC

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360,XLPE
护套材料 Sheath Material	IEC 60092-360,SHF1,SHF2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature:90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
耐火层 Fier Resistant Layer	云母带 Mica/Glass tape		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable		
内衬层或内护套 Inner Covering or Inner Sheath	热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360 热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360		
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid 镀锌钢丝编织 Galvanized steel wire braid		
外护套 Outer Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360		
线芯标识 Core Identification	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue,棕色Brown	
	三芯 Three cores	黑色Black, 棕色Brown, 灰色Grey	蓝色Blue, 棕色Brown, 黄/绿Yellow/Green
	四芯 Four cores	蓝色Blue,棕色Brown, 黑色Black, 灰色Grey.	黑色Black, 棕色Brown, 灰色Grey,黄/绿Yellow/Green
五芯及以上 5 cores and above	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing 黄/绿Yellow/Green
注: 1.字母“G”标示该电缆有一根接地线芯。 2.若客户特殊要求,其他标识方法亦可采用。 Note: 1. The letter “G” means that cable has the ground core 2. The other color scheme may be applicable when purchaser required.			

交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆

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交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆

船用中压电力电缆

船用变频电缆

技术资料

XLPE INSULATED, FIRE RESISTANT & FLAME RETARDANT, LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJV82/NA, CJV92/NA

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, ST2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
耐火层 Fier Resistant Layer	云母带 Mica/Glass tape		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable		
内衬层或内护套 Inner Covering or Inner Sheath	聚氯乙烯 ST2 as per IEC 60092-360		
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid 镀锌钢丝编织 Galvanized steel wire braid		
外护套 Outer Sheath	聚氯乙烯 ST2 as per IEC 60092-360		
线芯标识 Core Identification	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue, 棕色 Brown	
	三芯 Three cores	黑色 Black, 棕色 Brown, 灰色 Grey	蓝色 Blue, 棕色 Brown, 黄/绿 Yellow/Green
	四芯 Four cores	蓝色 Blue, 棕色 Brown, 灰色 Grey	黑色 Black, 棕色 Brown, 灰色 Grey, 黄/绿 Yellow/Green
	五芯及以上 5 cores and above	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing 黄/绿 Yellow/Green
	注: 1. 字母“G”标示该电缆有一根接地线芯。 2. 若客户特殊要求, 其他标识方法亦可采用。 Note: 1. The letter “G” means that cable has the ground core 2. The other color scheme may be applicable when purchaser required.		

No. × mm ²	Diameter		Approx. Weight				Conductor resistance at 20°C Ω/km	Insulation resistance at 20°C MΩ*km
	Nominal	Tolerance	CJV82/NA	CJV92/NA	CJPF86/NC CJPJ85/NC	CJPF96/NC CJPJ95/NC		
	mm	±mm	kg/km					
1×1	8.0	0.7	90	88	91	89	18.2	960
1×1.5	8.3	0.7	100	97	101	98	12.2	870
1×2.5	8.7	0.7	116	113	117	115	7.56	720
1×4	9.3	0.7	140	137	141	138	4.70	630
1×6	10.0	0.7	172	168	173	170	3.11	540
1×10	10.9	0.7	225	221	227	223	1.84	420
1×16	11.9	0.7	287	283	289	285	1.16	360
1×25	13.7	0.8	408	403	411	405	0.734	390
1×35	14.8	0.8	511	505	513	507	0.529	330
1×50	17.0	0.9	695	685	699	688	0.391	300
1×70	19.1	1.0	930	918	934	921	0.270	300
1×95	21.0	1.1	1193	1179	1197	1184	0.195	240
1×120	22.9	1.1	1468	1453	1473	1458	0.154	240
1×150	25.1	1.2	1775	1759	1781	1765	0.126	270
1×185	27.4	1.3	2160	2142	2167	2148	0.100	270
1×240	30.3	1.4	2749	2728	2756	2736	0.0762	240
1×300	33.1	1.5	3361	3339	3370	3347	0.0607	240
2×1	11.5	0.7	173	169	175	171	18.2	960
2×1.5	12.1	0.8	196	191	198	193	12.2	870
2×2.5	13.1	0.8	240	235	242	237	7.56	720
2×4	14.3	0.8	293	287	296	290	4.70	630
2×6	15.3	0.9	354	348	357	351	3.11	540
2×10	17.7	0.9	515	504	519	508	1.84	420
2×16	19.9	1.0	674	661	678	665	1.16	360
2×25	23.4	1.1	963	947	968	953	0.734	390
2×35	25.8	1.2	1212	1195	1219	1201	0.529	330
2×50	29.2	1.3	1567	1547	1574	1554	0.391	300
2×70	33.4	1.5	2115	2092	2124	2101	0.270	300
2×95	37.8	1.6	2772	2746	2783	2757	0.195	240
2×120	41.8	1.8	3476	3437	3489	3450	0.154	240
2×150	46.0	1.9	4196	4153	4212	4168	0.126	270
2×185	51.2	2.1	5179	5131	5198	5150	0.100	270
2×240	57.0	2.3	6561	6507	6583	6529	0.0762	240
2×300	63.0	2.5	8065	8005	8092	8032	0.0607	240
3×1	12.0	0.8	197	193	199	195	18.2	960
3×1.5	12.6	0.8	223	218	225	220	12.2	870
3×2.5	13.7	0.8	279	274	282	276	7.56	720
3×4	15.0	0.9	350	344	353	347	4.70	630
3×6	16.7	0.9	467	457	470	460	3.11	540
3×10	18.8	1.0	644	632	648	636	1.84	420
3×16	21.0	1.1	841	827	845	832	1.16	360
3×25	24.9	1.2	1233	1216	1239	1222	0.734	390
3×35	27.5	1.3	1577	1558	1584	1565	0.529	330
3×50	31.2	1.4	2055	2033	2063	2041	0.391	300
3×70	35.9	1.6	2816	2792	2827	2802	0.270	300
3×95	40.8	1.7	3775	3737	3788	3750	0.195	240
3×120	44.7	1.9	4655	4613	4669	4628	0.154	240
3×150	49.6	2.0	5660	5613	5678	5631	0.126	270
3×185	54.9	2.2	6977	6925	6998	6946	0.100	270
3×240	61.6	2.4	8958	8899	8984	8925	0.0762	240
3×300	67.6	2.6	10971	10906	11001	10937	0.0607	240

No.×mm ²	Diameter		Approx. Weight				Conductor resistance at 20°C	Insulation resistance at 20°C
	Nominal	Tolerance	CJV82/NA	CJV92/NA	CJPF86/NC CJPJ85/NC	CJPF96/NC CJPJ95/NC		
4×1	13.0	0.8	233	228	235	230	18.2	960
4×1.5	13.7	0.8	265	260	268	262	12.2	870
4×2.5	14.7	0.8	329	323	332	326	7.56	720
4×4	16.7	0.9	451	441	455	444	4.7	630
4×6	18.0	0.9	562	551	566	555	3.11	540
4×10	20.3	1.0	781	768	786	772	1.84	420
4×16	23.0	1.1	1046	1031	1051	1036	1.16	360
4×25	27.1	1.3	1535	1517	1542	1524	0.734	390
4×35	30.2	1.4	1982	1961	1990	1969	0.529	330
4×50	34.7	1.5	2635	2610	2645	2620	0.391	300
4×70	39.7	1.7	3610	3583	3623	3595	0.27	300
4×95	44.9	1.8	4805	4763	4820	4778	0.195	240
4×120	49.8	2.0	6005	5958	6023	5977	0.154	240
4×150	54.8	2.2	7259	7207	7280	7228	0.126	270
4×185	61.1	2.4	9007	8949	9033	8975	0.1	270
4×240	68.1	2.6	11499	11433	11529	11463	0.0762	240
4×300	74.8	2.8	14102	14030	14137	14065	0.0607	240
5×1	13.9	0.8	256	250	258	253	18.2	960
7×1	14.8	0.8	301	295	304	298	18.2	960
10×1	18.7	1.0	453	442	457	446	18.2	960
12×1	19.2	1.0	496	484	500	488	18.2	960
14×1	20.0	1.0	545	533	550	537	18.2	960
16×1	20.9	1.0	597	584	602	588	18.2	960
19×1	22.0	1.1	671	656	676	661	18.2	960
24×1	25.4	1.2	837	820	843	826	18.2	960
27×1	25.9	1.2	896	878	902	885	18.2	960
30×1	26.7	1.2	963	945	970	952	18.2	960
37×1	28.7	1.3	1127	1107	1134	1115	18.2	960
5×1.5	14.7	0.8	296	290	299	293	12.2	870
7×1.5	16.3	0.9	390	381	394	384	12.2	870
10×1.5	19.9	1.0	529	516	534	521	12.2	870
12×1.5	20.4	1.0	582	569	587	573	12.2	870
14×1.5	21.5	1.1	655	641	660	646	12.2	870
16×1.5	22.5	1.1	721	706	726	712	12.2	870
19×1.5	23.6	1.1	810	794	816	800	12.2	870
24×1.5	27.4	1.3	1014	996	1021	1002	12.2	870
27×1.5	27.9	1.3	1089	1070	1096	1077	12.2	870
30×1.5	28.8	1.3	1174	1154	1182	1162	12.2	870
37×1.5	31.0	1.4	1381	1359	1389	1368	12.2	870
5×2.5	16.4	0.9	405	395	408	398	7.56	720
7×2.5	17.5	0.9	487	476	491	480	7.56	720
10×2.5	21.7	1.1	677	663	682	667	7.56	720
12×2.5	22.3	1.1	753	738	758	743	7.56	720
14×2.5	23.4	1.1	849	833	855	839	7.56	720
16×2.5	24.7	1.2	952	936	958	941	7.56	720
19×2.5	25.8	1.2	1064	1046	1070	1053	7.56	720
24×2.5	30.0	1.3	1333	1312	1341	1320	7.56	720
27×2.5	30.6	1.4	1442	1420	1450	1428	7.56	720
30×2.5	31.6	1.4	1562	1540	1571	1548	7.56	720
37×2.5	34.4	1.5	1881	1857	1892	1867	7.56	720

XLPE INSULATED, FIRE RESISTANT & FLAME RETARDANT, LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJ86/NC,CJ85/NC

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360,XLPE
护套材料 Sheath Material	IEC 60092-360,SHF1,SHF2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max.Rated Conductor Temperature:90°C	

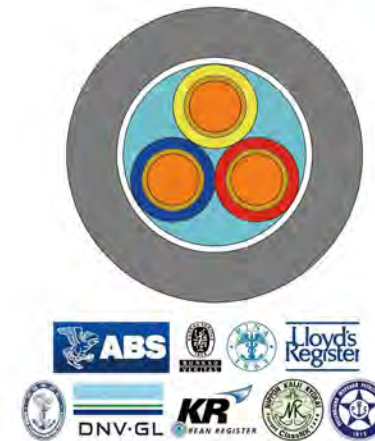
结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
耐火层 Fire Resistant Layer	云母带 Mica/Glass tape		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core. 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable.		
内衬层 Inner Covering	无卤隔氧带 Halogen free tape		
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid		
外护套 Outer Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360		
线芯标识 Core Identification	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue,棕色Brown	
	三芯 Three cores	黑色Black, 棕色Brown, 灰色Grey	蓝色Blue, 棕色Brown, 黄/绿Yellow/Green
	四芯 Four cores	蓝色Blue,棕色Brown, 黑色Black, 灰色Grey.	黑色Black, 棕色Brown, 灰色Grey,黄/绿Yellow/Green
五芯及以上 5 cores and above	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing 黄/绿Yellow/Green	
注: 1.字母"G"标示该电缆有一根接地线芯。 2.若客户特殊要求,其他标识方法亦可采用。 Note: 1.The letter "G" means that cable has the ground core 2.The other color scheme may be applicable when purchaser required.			

交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆

No. >mm ²	Diameter		Approx. Weight		Conductor resistance at 20°C	Insulation resistance at 20°C
	Nominal	Tolerance	CJ82/NA	CJ86/NC CJ85/NC		
			kg/km			
4×1	11.1	0.7	181	184	18.2	960
4×1.5	11.8	0.7	212	215	12.2	870
4×2.5	12.8	0.8	272	276	7.56	720
4×4	14.8	0.8	385	389	4.70	630
4×6	16.1	0.9	492	496	3.11	540
4×10	18.4	1.0	700	706	1.84	420
4×16	21.1	1.1	964	967	1.16	360
4×25	25.1	1.2	1428	1432	0.734	390
4×35	28.2	1.3	1863	1869	0.529	330
4×50	32.3	1.4	2467	2474	0.391	300
4×70	37.3	1.6	3420	3429	0.270	300
4×95	42.5	1.8	4593	4603	0.195	240
4×120	47.0	1.9	5726	5738	0.154	240
4×150	52.0	2.1	6955	6970	0.126	270
4×185	57.9	2.3	8614	8631	0.100	270
4×240	64.9	2.5	11064	11085	0.0762	240
4×300	71.6	2.7	13628	13653	0.0607	240
5×1	12.0	0.7	206	208	18.2	960
7×1	12.9	0.8	245	249	18.2	960
10×1	16.8	0.9	380	385	18.2	960
12×1	17.3	0.9	425	431	18.2	960
14×1	18.1	1.0	467	473	18.2	960
16×1	19.0	1.0	523	526	18.2	960
19×1	20.1	1.0	593	596	18.2	960
24×1	23.4	1.1	729	738	18.2	960
27×1	23.9	1.1	793	797	18.2	960
30×1	24.7	1.2	851	860	18.2	960
37×1	26.7	1.2	1014	1019	18.2	960
5×1.5	12.8	0.8	238	242	12.2	870
7×1.5	14.4	0.8	328	332	12.2	870
10×1.5	18.0	0.9	447	453	12.2	870
12×1.5	18.5	1.0	499	505	12.2	870
14×1.5	19.6	1.0	566	572	12.2	870
16×1.5	20.6	1.0	634	641	12.2	870
19×1.5	21.6	1.1	709	717	12.2	870
24×1.5	25.4	1.2	890	900	12.2	870
27×1.5	25.9	1.2	970	981	12.2	870
30×1.5	26.8	1.2	1045	1055	12.2	870
37×1.5	29.0	1.3	1255	1268	12.2	870
5×2.5	14.5	0.8	340	344	7.56	720
7×2.5	15.6	0.9	417	421	7.56	720
10×2.5	19.8	1.0	589	596	7.56	720
12×2.5	20.4	1.0	663	670	7.56	720
14×2.5	21.4	1.1	745	752	7.56	720
16×2.5	22.7	1.1	842	851	7.56	720
19×2.5	23.8	1.1	950	959	7.56	720
24×2.5	28.0	1.3	1215	1221	7.56	720
27×2.5	28.6	1.3	1321	1327	7.56	720
30×2.5	29.6	1.3	1438	1444	7.56	720
37×2.5	32.0	1.4	1715	1722	7.56	720

XLPE INSULATED, FIRE RESISTANT & FLAME RETARDANT, LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJPF/NC, CJPJ/NC

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, SHF1, SHF2
阻燃 Flame Retardant	IEC 60332-1 & IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
耐火层 Fire Resistant Layer	云母带 Mica/Glass tape		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable		
护套 Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360		
线芯标识 Core Identification	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue, 棕色 Brown	
	三芯 Three cores	黑色 Black, 棕色 Brown, 灰色 Grey	蓝色 Blue, 棕色 Brown, 黄/绿 Yellow/Green
	四芯 Four cores	蓝色 Blue, 棕色 Brown, 黑色 Black, 灰色 Grey	黑色 Black, 棕色 Brown, 灰色 Grey, 黄/绿 Yellow/Green
五芯及以上 5 cores and above	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	黄/绿 Yellow/Green
注: 1. 字母“G”标示该电缆有一根接地线芯。 2. 若客户特殊要求, 其他标识方法亦可采用。 Note: 1. The letter “G” means that cable has the ground core 2. The other color scheme may be applicable when purchaser required.			

交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆

XLPE INSULATED, FIRE RESISTANT & FLAME RETARDANT, LOW VOLTAGE POWER & CONTROL CABLES
交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆



电缆型号 CABLE DESIGNATION

0.6/1kV CJV/NA

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360,XLPE
护套材料 Sheath Material	IEC 60092-360,ST2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max.Rated Conductor Temperature:90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail		
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper		
耐火层 Fire Resistant Layer	云母带 Mica/Glass tape		
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360		
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable		
护套 Sheath	聚氯乙烯 ST2 as per IEC 60092-360		
线芯标识 Core Identification	线芯芯数 No. of cores	无接地线 Without earth core	有接地线 With earth core
	单芯 Single core	白色 White	
	两芯 Double cores	蓝色 Blue,棕色Brown	
	三芯 Three cores	黑色Black, 棕色Brown, 灰色Grey	蓝色Blue, 棕色Brown, 黄/绿Yellow/Green
	四芯 Four cores	蓝色Blue,棕色Brown, 黑色Black, 灰色Grey.	黑色Black, 棕色Brown, 灰色Grey,黄/绿Yellow/Green
	五芯及以上 5 cores and above	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing	白色绝缘打印黑色阿拉伯数字 White insulation with black Arabic number printing 黄/绿Yellow/Green
注: 1.字母“G”标示该电缆有一根接地线芯。 2.若客户特殊要求,其他标识方法亦可采用。 Note: 1.The letter “G” means that cable has the ground core 2.The other color scheme may be applicable when purchaser required.			

No. ×mm ²	Diameter		Approx. Weight		Conductor resistance at 20°C	Insulation resistance at 20°C
	Nominal	Tolerance	CJV/NA	CJPF/NC CJPJ/NC		
	mm	±mm	kg/km		Ω/km	MΩ*km
1×1	5.2	0.7	38	38	18.2	960
1×1.5	5.5	0.7	44	45	12.2	870
1×2.5	5.9	0.7	57	57	7.56	720
1×4	6.5	0.7	75	76	4.70	630
1×6	7.0	0.7	98	98	3.11	540
1×10	7.9	0.7	142	143	1.84	420
1×16	9.1	0.7	199	200	1.16	360
1×25	10.7	0.7	299	300	0.734	390
1×35	12.0	0.7	396	397	0.529	330
1×50	13.6	0.8	526	527	0.391	300
1×70	15.7	0.9	737	739	0.270	300
1×95	17.6	0.9	978	981	0.195	240
1×120	19.5	1.0	1231	1234	0.154	240
1×150	21.6	1.1	1504	1507	0.126	270
1×185	24.1	1.2	1874	1877	0.100	270
1×240	27.0	1.2	2430	2434	0.0762	240
1×300	29.6	1.3	2997	3002	0.0607	240
2×1	8.5	0.7	85	86	18.2	960
2×1.5	9.3	0.7	104	107	12.2	870
2×2.5	10.1	0.7	136	138	7.56	720
2×4	11.3	0.7	175	178	4.70	630
2×6	12.5	0.8	234	237	3.11	540
2×10	14.3	0.8	336	340	1.84	420
2×16	16.5	0.9	474	476	1.16	360
2×25	19.9	1.0	714	717	0.734	390
2×35	22.3	1.1	935	938	0.529	330
2×50	25.7	1.2	1249	1254	0.391	300
2×70	29.9	1.3	1752	1758	0.270	300
2×95	33.9	1.5	2329	2336	0.195	240
2×120	37.5	1.6	2903	2911	0.154	240
2×150	41.7	1.7	3564	3574	0.126	270
2×185	46.5	1.9	4432	4443	0.100	270
2×240	52.3	2.1	5724	5738	0.0762	240
2×300	57.9	2.3	7087	7104	0.0607	240
3×1	9.2	0.7	109	110	18.2	960
3×1.5	9.8	0.7	129	130	12.2	870
3×2.5	10.7	0.7	170	171	7.56	720
3×4	12.2	0.8	235	237	4.70	630
3×6	13.3	0.8	303	305	3.11	540
3×10	15.4	0.9	453	458	1.84	420
3×16	17.6	0.9	628	630	1.16	360
3×25	21.4	1.1	967	971	0.734	390
3×35	24.0	1.1	1280	1284	0.529	330
3×50	27.7	1.3	1714	1719	0.391	300
3×70	32.0	1.4	2394	2400	0.270	300
3×95	36.5	1.6	3219	3226	0.195	240
3×120	40.4	1.7	4041	4051	0.154	240
3×150	44.9	1.8	4934	4945	0.126	270
3×185	50.0	2.0	6145	6158	0.100	270
3×240	56.3	2.2	7970	7986	0.0762	240
3×300	62.3	2.4	9889	9908	0.0607	240

交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆
交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆
交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆
交联聚乙烯绝缘阻燃及耐火低压电力及控制电缆
船用中压电力电缆
船用中压电力电缆
船用中压电力电缆
船用中压电力电缆

No.×mm ²	Diameter		Approx. Weight		Conductor resistance at 20 C Ω/km	Insulation resistance at 20 C MΩ*km
	Nominal mm	Tolerance ±mm	CJV/NA	CJPF/NC CJPJ/NC		
			kg/km			
4×1	10.0	0.7	131	132	18.2	960
4×1.5	10.7	0.7	156	158	12.2	870
4×2.5	11.7	0.7	210	211	7.56	720
4×4	13.3	0.8	288	289	4.70	630
4×6	14.6	0.8	383	385	3.11	540
4×10	16.9	0.9	576	578	1.84	420
4×16	19.6	1.0	811	814	1.16	360
4×25	23.8	1.1	1256	1260	0.734	390
4×35	26.7	1.2	1654	1659	0.529	330
4×50	30.8	1.4	2225	2231	0.391	300
4×70	35.8	1.5	3143	3151	0.270	300
4×95	40.6	1.7	4190	4199	0.195	240
4×120	45.1	1.9	5278	5289	0.154	240
4×150	49.9	2.0	6425	6438	0.126	270
4×185	55.8	2.2	8027	8042	0.100	270
4×240	63.0	2.4	10440	10460	0.0762	240
4×300	69.7	2.7	12942	12965	0.0607	240
5×1	10.9	0.7	146	147	18.2	960
7×1	11.8	0.7	182	183	18.2	960
10×1	15.3	0.9	267	269	18.2	960
12×1	15.8	0.9	303	305	18.2	960
14×1	16.6	0.9	344	346	18.2	960
16×1	17.5	0.9	385	388	18.2	960
19×1	18.6	1.0	447	449	18.2	960
24×1	21.9	1.1	565	568	18.2	960
27×1	22.4	1.1	618	621	18.2	960
30×1	23.2	1.1	675	679	18.2	960
37×1	25.2	1.2	816	820	18.2	960
5×1.5	11.7	0.7	178	179	12.2	870
7×1.5	12.9	0.8	231	233	12.2	870
10×1.5	16.5	0.9	325	330	12.2	870
12×1.5	17.0	0.9	373	378	12.2	870
14×1.5	18.1	1.0	433	439	12.2	870
16×1.5	19.1	1.0	491	494	12.2	870
19×1.5	20.1	1.0	557	560	12.2	870
24×1.5	23.9	1.1	718	722	12.2	870
27×1.5	24.4	1.2	787	791	12.2	870
30×1.5	25.3	1.2	861	865	12.2	870
37×1.5	27.5	1.3	1043	1047	12.2	870
5×2.5	13.0	0.8	244	246	7.56	720
7×2.5	14.1	0.8	313	315	7.56	720
10×2.5	18.3	1.0	455	457	7.56	720
12×2.5	18.9	1.0	523	526	7.56	720
14×2.5	19.9	1.0	598	601	7.56	720
16×2.5	21.2	1.1	687	690	7.56	720
19×2.5	22.3	1.1	785	788	7.56	720
24×2.5	26.5	1.2	1006	1010	7.56	720
27×2.5	27.1	1.3	1107	1112	7.56	720
30×2.5	28.1	1.3	1215	1221	7.56	720
37×2.5	30.5	1.4	1474	1480	7.56	720

XLPE INSULATED, FLAME RETARDANT COMMUNICATION & INSTRUMENTATION CABLES

交联聚乙烯绝缘阻燃通信及仪表电缆



No.×mm ²	Diameter		Approx.Weight		Conductor resistance at 20℃ Ω/km	Insulation resistance at 20℃ MΩ*km
	Nominal mm	Tolerance ±mm	CHJVP82/SA	CHJFP86/SC CHJJP85/SC		
			kg/km			
1×2×0.5	8.9	0.8	104	107	36.7	1200
1×3×0.5	9.2	0.8	118	121	36.7	1200
1×4×0.5	9.7	0.8	141	144	36.7	1200
2×2×0.5	12.8	1.0	192	197	36.7	1200
3×2×0.5	13.4	1.0	221	226	36.7	1200
4×2×0.5	14.2	1.1	261	267	36.7	1200
5×2×0.5	15.3	1.1	302	307	36.7	1200
7×2×0.5	16.5	1.2	367	373	36.7	1200
10×2×0.5	19.9	1.3	494	501	36.7	1200
12×2×0.5	20.5	1.4	544	552	36.7	1200
14×2×0.5	21.3	1.4	598	606	36.7	1200
16×2×0.5	22.6	1.5	669	678	36.7	1200
19×2×0.5	23.6	1.5	747	757	36.7	1200
24×2×0.5	27.4	1.7	927	938	36.7	1200
27×2×0.5	28.1	1.8	1011	1023	36.7	1200
30×2×0.5	29.0	1.8	1088	1101	36.7	1200
33×2×0.5	30.6	1.9	1244	1258	36.7	1200
37×2×0.5	31.7	1.9	1347	1362	36.7	1200
1×2×0.75	9.3	0.8	117	120	24.8	1020
1×3×0.75	9.6	0.8	134	137	24.8	1020
1×4×0.75	10.4	0.9	168	171	24.8	1020
2×2×0.75	13.8	1.0	223	229	24.8	1020
3×2×0.75	14.4	1.1	260	266	24.8	1020
4×2×0.75	15.1	1.1	309	315	24.8	1020
5×2×0.75	16.4	1.2	361	367	24.8	1020
7×2×0.75	17.6	1.2	436	443	24.8	1020
10×2×0.75	21.3	1.4	590	599	24.8	1020
12×2×0.75	22.1	1.5	667	676	24.8	1020
14×2×0.75	23.1	1.5	739	749	24.8	1020
16×2×0.75	24.2	1.6	813	823	24.8	1020
19×2×0.75	25.6	1.6	930	941	24.8	1020
24×2×0.75	30.0	1.8	1213	1227	24.8	1020
27×2×0.75	30.8	1.9	1323	1337	24.8	1020
30×2×0.75	31.8	1.9	1426	1441	24.8	1020
33×2×0.75	32.9	2.0	1532	1548	24.8	1020
37×2×0.75	34.3	2.1	1684	1701	24.8	1020

No.×mm ²	Diameter		Approx.Weight		Conductor resistance at 20℃ Ω/km	Insulation resistance at 20℃ MΩ*km
	Nominal mm	Tolerance ±mm	CHJVP82/SA	CHJFP86/SC CHJJP85/SC		
			kg/km			
1×2×1	10.7	0.9	151	155	18.2	1170
1×3×1	11.1	0.9	171	175	18.2	1170
1×4×1	11.8	0.9	212	216	18.2	1170
2×2×1	16.0	1.1	321	326	18.2	1170
3×2×1	17.0	1.2	376	382	18.2	1170
4×2×1	17.8	1.2	434	440	18.2	1170
5×2×1	19.5	1.3	480	487	18.2	1170
7×2×1	21.0	1.4	584	593	18.2	1170
10×2×1	25.8	1.6	808	819	18.2	1170
12×2×1	26.6	1.7	901	912	18.2	1170
14×2×1	28.0	1.7	1016	1028	18.2	1170
16×2×1	29.8	1.8	1180	1193	18.2	1170
19×2×1	31.5	1.9	1346	1361	18.2	1170
24×2×1	37.2	2.2	1726	1746	18.2	1170
27×2×1	37.9	2.2	1860	1880	18.2	1170
30×2×1	39.2	2.3	2008	2029	18.2	1170
33×2×1	40.8	2.4	2180	2202	18.2	1170
37×2×1	42.3	2.5	2373	2396	18.2	1170
1×2×1.5	11.3	0.9	170	174	12.2	990
1×3×1.5	11.8	0.9	199	204	12.2	990
1×4×1.5	12.6	1.0	247	251	12.2	990
2×2×1.5	17.3	1.2	377	383	12.2	990
3×2×1.5	18.2	1.3	435	441	12.2	990
4×2×1.5	19.3	1.3	515	523	12.2	990
5×2×1.5	20.9	1.4	559	567	12.2	990
7×2×1.5	22.8	1.5	699	709	12.2	990
10×2×1.5	28.1	1.8	969	981	12.2	990
12×2×1.5	28.9	1.8	1084	1096	12.2	990
14×2×1.5	30.9	1.9	1288	1302	12.2	990
16×2×1.5	32.5	2.0	1422	1437	12.2	990
19×2×1.5	34.3	2.1	1624	1640	12.2	990
24×2×1.5	40.5	2.4	2078	2101	12.2	990
27×2×1.5	41.3	2.4	2247	2270	12.2	990
30×2×1.5	42.9	2.5	2452	2476	12.2	990
33×2×1.5	44.5	2.6	2641	2667	12.2	990
37×2×1.5	46.3	2.7	2904	2931	12.2	990

交联聚乙烯绝缘阻燃低电压电力及控制电缆

交联聚乙烯绝缘阻燃及耐火低电压电力及控制电缆

交联聚乙烯绝缘阻燃通信及仪表电缆

交联聚乙烯绝缘阻燃及耐火通信及仪表电缆

船用中压电力电缆

船用变频电缆

技术资料

XLPE INSULATED, FLAME RETARDANT, COMMUNICATION & INSTRUMENTATION CABLES
交联聚乙烯绝缘阻燃通信及仪表电缆

XLPE INSULATED, FLAME RETARDANT, COMMUNICATION & INSTRUMENTATION CABLES
交联聚乙烯绝缘阻燃通信及仪表电缆



电缆型号 CABLE DESIGNATION

150/250V CHJP86/SC, CHJP85/SC

电缆型号 CABLE DESIGNATION

150/250V CHJP82/SA

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-376
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, SHF1, SHF2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额度导体运行温度 Max. Rated Conductor Temperature: 90°C	

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-376
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, ST2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额度导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360
对绞 Twisting	2个或3个绝缘线芯对绞 Two/ three insulated cores shall be twisted together to form a pair / triad
分屏蔽 Individual Screen	铝箔复合带+镀锡引流线 AL/PS Tape with a drain wire
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable
内衬层 Inner Covering	无卤隔氧带 Halogen free tape
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid
外护套 Outer Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360
线芯标识 Core Identification	有色绝缘加黑色阿拉伯数字。 Colored insulation with arabic number printing on the insulation 2线组Pair: 白White, 红Red 3线组Triad: 白White, 红Red, 蓝Blue 注: 若客户特殊要求, 其他标识方法亦可采用。 Note: The other color scheme may be applicable when purchaser required.

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360
对绞 Twisting	2个或3个绝缘线芯对绞 Two/ three insulated cores shall be twisted together to form a pair / triad
分屏蔽 Individual Screen	铝箔复合带+镀锡引流线 AL/PS Tape with a drain wire
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable
内衬层 Inner Covering	聚氯乙烯带 PVC tape
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid
外护套 Outer Sheath	聚氯乙烯 ST2 as per IEC 60092-360
线芯标识 Core Identification	有色绝缘加黑色阿拉伯数字。 Colored insulation with arabic number printing on the insulation 2线组Pair: 白White, 红Red 3线组Triad: 白White, 红Red, 蓝Blue 注: 若客户特殊要求, 其他标识方法亦可采用。 Note: The other color scheme may be applicable when purchaser required.

交联聚乙烯绝缘阻燃通信及仪表电缆

交联聚乙烯绝缘阻燃通信及仪表电缆

交联聚乙烯绝缘阻燃通信及仪表电缆

交联聚乙烯绝缘阻燃通信及仪表电缆

船用中压电力电缆

船用或船用电缆

控制电缆

XLPE INSTALLED, FIRE RESISTANT & FLAME RETARDANT, COMMUNICATION & INSTRUMENTATION CABLES
交联聚乙烯绝缘阻燃及耐火通信仪表电缆



电缆型号 CABLE DESIGNATION

150/250V CHJV82/NA

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-376
绝缘材料 Insulation Material	IEC 60092-360,XLPE
护套材料 Sheath Material	IEC 60092-360,ST2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max.Rated Conductor Temperature:90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper
耐火层 Fire Resistant Layer	云母带 Mica/Glass tape
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360
对绞 Twisting	2个或3个绝缘线芯对绞 Two/ three insulated cores shall be twisted together to form a pair / triad
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable
内衬层或内护套 Inner Covering or Inner Sheath	聚氯乙烯 ST2 as per IEC 60092-360
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid
外护套 Outer Sheath	聚氯乙烯 ST2 as per IEC 60092-360
线芯标识 Core Identification	有色绝缘加黑色阿拉伯数字。 Colored insulation with arabic number printing on the insulation 2线组Pair: 白White,红Red 3线组Triad: 白White,红Red,蓝Blue 注: 若客户特殊要求,其他标识方法亦可采用。 Note:The other color scheme may be applicable when purchaser required.

No.×mm ²	Diameter		Approx.Weight		Conductor resistance at 20°C Ω/km	Insulation resistance at 20°C MΩ*km
	Nominal	Tolerance	CHJV82/NA	CHJPF86/NC CHJPI85/NC		
	mm	±mm	kg/km			
1×2×0.5	9.6	0.8	128	131	36.7	900
1×3×0.5	10.2	0.9	147	150	36.7	900
1×4×0.5	10.8	0.9	166	169	36.7	900
2×2×0.5	13.1	1.0	223	227	36.7	900
3×2×0.5	13.7	1.0	247	251	36.7	900
4×2×0.5	14.7	1.1	283	287	36.7	900
5×2×0.5	16.4	1.2	308	344	36.7	900
7×2×0.5	17.6	1.2	364	403	36.7	900
10×2×0.5	21.5	1.4	489	551	36.7	900
12×2×0.5	22.1	1.5	546	599	36.7	900
14×2×0.5	23.0	1.5	597	653	36.7	900
16×2×0.5	24.3	1.6	665	725	36.7	900
19×2×0.5	25.0	1.6	732	794	36.7	900
24×2×0.5	29.1	1.8	904	994	36.7	900
27×2×0.5	29.6	1.8	982	1058	36.7	900
30×2×0.5	30.6	1.9	1119	1133	36.7	900
33×2×0.5	31.9	1.9	1212	1228	36.7	900
37×2×0.5	33.4	2.0	1342	1359	36.7	900
1×2×0.75	10.2	0.9	132	136	24.8	810
1×3×0.75	10.6	0.9	150	154	24.8	810
1×4×0.75	11.2	0.9	186	189	24.8	810
2×2×0.75	13.8	1.0	175	179	24.8	810
3×2×0.75	14.4	1.1	265	271	24.8	810
4×2×0.75	16.1	1.2	332	367	24.8	810
5×2×0.75	17.3	1.2	354	393	24.8	810
7×2×0.75	18.8	1.3	423	476	24.8	810
10×2×0.75	22.8	1.5	584	639	24.8	810
12×2×0.75	23.5	1.5	644	701	24.8	810
14×2×0.75	24.7	1.6	722	782	24.8	810
16×2×0.75	25.9	1.6	791	855	24.8	810
19×2×0.75	26.8	1.7	890	958	24.8	810
24×2×0.75	31.0	1.9	1168	1182	24.8	810
27×2×0.75	31.8	1.9	1268	1283	24.8	810
30×2×0.75	33.2	2.0	1395	1412	24.8	810
33×2×0.75	34.4	2.1	1494	1512	24.8	810
37×2×0.75	35.8	2.1	1636	1654	24.8	810



交联聚乙烯绝缘阻燃及耐火通信仪表电缆
船用中压电力电缆
船用或陆用电缆
挂式材料

No.×mm ²	Diameter		Approx. Weight		Conductor resistance at 20 C Ω/km	Insulation resistance at 20 C MΩ*km
	Nominal mm	Tolerance ±mm	CIJUV82/NA	CHJPF86/NC CHJJP85/NC		
			kg/km			
1×2×1	11.4	0.9	159	164	18.2	960
1×3×1	11.9	0.9	186	191	18.2	960
1×4×1	12.9	1.0	219	224	18.2	960
2×2×1	16.4	1.2	323	359	18.2	960
3×2×1	17.2	1.2	364	402	18.2	960
4×2×1	18.8	1.3	423	475	18.2	960
5×2×1	20.3	1.4	459	505	18.2	960
7×2×1	22.0	1.4	552	614	18.2	960
10×2×1	27.1	1.7	764	844	18.2	960
12×2×1	27.9	1.7	859	928	18.2	960
14×2×1	29.2	1.8	950	1023	18.2	960
16×2×1	30.9	1.9	1124	1138	18.2	960
19×2×1	31.8	1.9	1247	1262	18.2	960
24×2×1	37.6	2.2	1601	1621	18.2	960
27×2×1	38.5	2.3	1737	1758	18.2	960
30×2×1	40.2	2.4	1869	1976	18.2	960
33×2×1	41.8	2.4	2025	2137	18.2	960
37×2×1	43.3	2.5	2194	2311	18.2	960
1×2×1.5	12.0	0.9	177	181	12.2	840
1×3×1.5	12.5	1.0	209	214	12.2	840
1×4×1.5	13.6	1.0	252	258	12.2	840
2×2×1.5	17.4	1.2	370	409	12.2	840
3×2×1.5	18.3	1.3	413	422	12.2	840
4×2×1.5	20.0	1.3	502	512	12.2	840
5×2×1.5	21.8	1.4	537	598	12.2	840
7×2×1.5	23.5	1.5	666	721	12.2	840
10×2×1.5	29.1	1.8	924	997	12.2	840
12×2×1.5	30.2	1.9	1106	1120	12.2	840
14×2×1.5	31.6	1.9	1224	1239	12.2	840
16×2×1.5	33.4	2.0	1365	1381	12.2	840
19×2×1.5	34.8	2.1	1559	1577	12.2	840
24×2×1.5	41.2	2.4	1972	2083	12.2	840
27×2×1.5	42.1	2.5	2125	2238	12.2	840
30×2×1.5	43.7	2.5	2291	2432	12.2	840
33×2×1.5	45.6	2.6	2533	2658	12.2	840
37×2×1.5	47.5	2.7	2777	2908	12.2	840

XLPE INSTALLED, FIRE RESISTANT & FLAME RETARDANT, COMMUNICATION & INSTRUMENTATION CABLES 交联聚乙烯绝缘阻燃及耐火通信仪表电缆



电缆型号 CABLE DESIGNATION
150/250V CHJPF86/NC, CHJJP85/NC

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-376
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, SHF1, SHF2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper
耐火层 Fire Resistant Layer	云母带 Mica/Glass tape
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360
对绞 Twisting	2个或3个绝缘线芯对绞 Two/ three insulated cores shall be twisted together to form a pair / triad
分屏蔽 Individual Screen	铝塑复合带+镀锡引流线 AL/PS Tape with a drain wire
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable
内衬层或内护套 Inner Covering or Inner Sheath	热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360 热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid
外护套 Outer Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360
线芯标识 Core Identification	有色绝缘加黑色阿拉伯数字。 Colored insulation with arabic number printing on the insulation 2线组 Pair: 白White, 红Red 3线组 Triad: 白White, 红Red, 蓝Blue 注: 若客户特殊要求, 其他标识方法亦可采用。 Note: The other color scheme may be applicable when purchaser required.

交联聚乙烯绝缘阻燃及耐火通信仪表电缆

No. × mm ²	Diameter		Approx. Weight		Conductor resistance at 20°C	Insulation resistance at 20°C
	Nominal	Tolerance	CHJVP82/NA	CHJFP86/NC CHJJP85/NC		
	mm	±mm	kg/km			
1×2×1	11.5	0.9	174	178	18.2	960
1×3×1	12.0	0.9	201	206	18.2	960
1×4×1	13.0	1.0	248	252	18.2	960
2×2×1	17.7	1.2	376	415	18.2	960
3×2×1	18.6	1.3	429	470	18.2	960
4×2×1	19.8	1.3	507	532	18.2	960
5×2×1	21.4	1.4	544	593	18.2	960
7×2×1	23.4	1.5	677	732	18.2	960
10×2×1	28.8	1.8	935	1007	18.2	960
12×2×1	30.3	1.9	1119	1133	18.2	960
14×2×1	31.7	1.9	1240	1255	18.2	960
16×2×1	33.5	2.0	1383	1399	18.2	960
19×2×1	35.6	2.1	1592	1610	18.2	960
24×2×1	41.5	2.4	1991	2123	18.2	960
27×2×1	42.6	2.5	2169	2281	18.2	960
30×2×1	44.0	2.5	2339	2456	18.2	960
33×2×1	45.9	2.6	2540	2877	18.2	960
37×2×1	47.9	2.7	2811	2967	18.2	960
1×2×1.5	12.1	1.0	191	196	12.2	840
1×3×1.5	12.6	1.0	224	229	12.2	840
1×4×1.5	13.7	1.0	283	288	12.2	840
2×2×1.5	18.8	1.3	426	468	12.2	840
3×2×1.5	20.0	1.3	500	510	12.2	840
4×2×1.5	21.1	1.4	496	608	12.2	840
5×2×1.5	23.1	1.5	639	693	12.2	840
7×2×1.5	25.2	1.6	798	859	12.2	840
10×2×1.5	31.4	1.9	1168	1183	12.2	840
12×2×1.5	32.4	2.0	1302	1317	12.2	840
14×2×1.5	34.5	2.1	1501	1519	12.2	840
16×2×1.5	36.5	2.2	1675	1695	12.2	840
19×2×1.5	38.3	2.3	1887	1908	12.2	840
24×2×1.5	45.0	2.6	2386	2507	12.2	840
27×2×1.5	46.0	2.6	2579	2703	12.2	840
30×2×1.5	48.1	2.8	2862	2994	12.2	840
33×2×1.5	49.9	2.8	3080	3412	12.2	840
37×2×1.5	52.3	3.0	3490	3524	12.2	840

XLPE INSTALLED, FIRE RESISTANT & FLAME RETARDANT, COMMUNICATION & INSTRUMENTATION CABLES 交联聚乙烯绝缘阻燃及耐火通信仪表电缆



ZTT
中天科技

电缆型号 CABLE DESIGNATION

150/250V CHJ86/NC, CHJ85/NC

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-376
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, SHF1, SHF2
阻燃 Flame Retardant	IEC 60332-1 & IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper
耐火层 Fire Resistant Layer	云母带 Mica/Glass tape
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360
对绞 Twisting	2个或3个绝缘线芯对绞 Two/ three insulated cores shall be twisted together to form a pair / triad
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable
内衬层 Inner Covering	无卤隔氧带 Halogen free tape
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid
外护套 Outer Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360
线芯标识 Core Identification	有色绝缘加黑色阿拉伯数字。 Colored insulation with arabic number printing on the insulation 2线组 Pair: 白White, 红Red 3线组 Triad: 白White, 红Red, 蓝Blue 注: 若客户特殊要求, 其他标识方法亦可采用。 Note: The other color scheme may be applicable when purchaser required.

No. × mm ²	Diameter		Approx. Weight		Conductor resistance at 20°C Ω/km	Insulation resistance at 20°C MΩ*km
	Nominal mm	Tolerance ±mm	CHJ82/NA	CHJ86/NC CHJ85/NC		
			kg/km			
1×2×1	9.4	0.8	117	119	18.2	960
1×3×1	9.9	0.8	141	144	18.2	960
1×4×1	10.7	0.9	168	170	18.2	960
2×2×1	13.8	1.0	235	238	18.2	960
3×2×1	14.8	1.1	278	282	18.2	960
4×2×1	16.2	1.2	330	334	18.2	960
5×2×1	17.9	1.2	357	361	18.2	960
7×2×1	19.4	1.3	441	446	18.2	960
10×2×1	24.5	1.6	625	632	18.2	960
12×2×1	25.3	1.6	702	709	18.2	960
14×2×1	26.8	1.7	799	807	18.2	960
16×2×1	28.3	1.8	886	894	18.2	960
19×2×1	29.4	1.8	1015	1024	18.2	960
24×2×1	35.2	2.1	1365	1377	18.2	960
27×2×1	35.9	2.1	1477	1489	18.2	960
30×2×1	37.4	2.2	1619	1632	18.2	960
33×2×1	38.8	2.3	1744	1758	18.2	960
37×2×1	40.5	2.4	1924	1939	18.2	960
1×2×1.5	10.0	0.8	132	135	12.2	840
1×3×1.5	10.5	0.9	162	165	12.2	840
1×4×1.5	11.4	0.9	198	200	12.2	840
2×2×1.5	15.0	1.1	284	287	12.2	840
3×2×1.5	15.9	1.1	330	333	12.2	840
4×2×1.5	17.4	1.2	394	398	12.2	840
5×2×1.5	19.2	1.3	427	432	12.2	840
7×2×1.5	21.1	1.4	546	551	12.2	840
10×2×1.5	26.7	1.7	774	782	12.2	840
12×2×1.5	27.6	1.7	873	881	12.2	840
14×2×1.5	29.2	1.8	995	1004	12.2	840
16×2×1.5	31.2	1.9	1173	1183	12.2	840
19×2×1.5	32.4	2.0	1342	1352	12.2	840
24×2×1.5	38.2	2.3	1695	1709	12.2	840
27×2×1.5	39.3	2.3	1863	1877	12.2	840
30×2×1.5	40.7	2.4	2020	2035	12.2	840
33×2×1.5	42.4	2.5	2202	2219	12.2	840
37×2×1.5	44.1	2.6	2409	2426	12.2	840

XLPE INSTALLED, FIRE RESISTANT & FLAME RETARDANT, COMMUNICATION & INSTRUMENTATION CABLES
交联聚乙烯绝缘阻燃及耐火通信仪表电缆



电缆型号 CABLE DESIGNATION

150/250V CHJP86/NC, CHJP85/NC

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-350&IEC 60092-376
绝缘材料 Insulation Material	IEC 60092-360, XLPE
护套材料 Sheath Material	IEC 60092-360, SHF1, SHF2
阻燃 Flame Retardant	IEC 60332-1&IEC 60332-3 Category A
耐火 Fire Resistant	IEC 60331
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail
导体 Conductor	绞合裸铜或镀锡铜 Plain or tinned stranded copper
耐火层 Fire Resistant Layer	云母带 Mica/Glass tape
绝缘 Insulation	交联聚乙烯 XLPE as per IEC 60092-360
对绞 Twisting	2个或3个绝缘线芯对绞 Two/ three insulated cores shall be twisted together to form a pair / triad
分屏蔽 Individual Screen	铝塑复合带+镀锡引流线 Al/PS Tape with a drain wire
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable
内衬层 Inner Covering	无卤隔氧带 Halogen free tape
铠装 Armor	镀锡铜丝编织 Tinned copper wire braid
外护套 Outer Sheath	热固性低烟无卤交联聚烯烃 SHF2 as per IEC 60092-360 热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360
线芯标识 Core Identification	有色绝缘加黑色阿拉伯数字。 Colored insulation with arabic number printing on the insulation 2线组 Pair: 白 White, 红 Red 3线组 Triad: 白 White, 红 Red, 蓝 Blue 注: 若客户特殊要求, 其他标识方法亦可采用。 Note: The other color scheme may be applicable when purchaser required.

交联聚乙烯绝缘阻燃及耐火通信仪表电缆
船用中压电力电缆
船用或陆用电缆
挂式

No.×mm ²	Diameter		Approx. Weight		Conductor resistance at 20 C Ω/km	Insulation resistance at 20 C MΩ*km
	Nominal	Tolerance	CHJP82/NA	CHJP86/NC CHJP85/NC		
	mm	±mm	kg/km			
1×2×1	9.7	0.8	130	133	18.2	960
1×3×1	10.2	0.9	155	158	18.2	960
1×4×1	11.0	0.9	182	184	18.2	960
2×2×1	15.7	1.1	286	289	18.2	960
3×2×1	16.6	1.2	334	338	18.2	960
4×2×1	17.6	1.2	396	400	18.2	960
5×2×1	19.4	1.3	433	438	18.2	960
7×2×1	21.4	1.4	556	561	18.2	960
10×2×1	26.8	1.7	785	792	18.2	960
12×2×1	27.7	1.7	887	895	18.2	960
14×2×1	29.3	1.8	1011	1020	18.2	960
16×2×1	31.3	1.9	1190	1199	18.2	960
19×2×1	33.2	2.0	1369	1380	18.2	960
24×2×1	39.1	2.3	1730	1744	18.2	960
27×2×1	40.0	2.3	1879	1894	18.2	960
30×2×1	41.6	2.4	2062	2077	18.2	960
33×2×1	43.3	2.5	2227	2244	18.2	960
37×2×1	45.1	2.6	2460	2478	18.2	960
1×2×1.5	10.3	0.9	146	149	12.2	840
1×3×1.5	10.8	0.9	177	179	12.2	840
1×4×1.5	11.7	0.9	214	216	12.2	840
2×2×1.5	16.8	1.2	330	333	12.2	840
3×2×1.5	17.8	1.2	389	393	12.2	840
4×2×1.5	19.1	1.3	474	478	12.2	840
5×2×1.5	21.1	1.4	519	524	12.2	840
7×2×1.5	23.0	1.5	655	661	12.2	840
10×2×1.5	29.0	1.8	941	950	12.2	840
12×2×1.5	30.4	1.9	1132	1141	12.2	840
14×2×1.5	32.1	2.0	1286	1296	12.2	840
16×2×1.5	33.9	2.0	1429	1440	12.2	840
19×2×1.5	35.9	2.1	1647	1659	12.2	840
24×2×1.5	42.4	2.5	2080	2096	12.2	840
27×2×1.5	43.6	2.5	2288	2305	12.2	840
30×2×1.5	45.1	2.6	2486	2504	12.2	840
33×2×1.5	47.1	2.7	2713	2733	12.2	840
37×2×1.5	49.1	2.8	2999	3020	12.2	840

SHIPBOARD MEDIUM VOLTAGE POWER CABLES

船用中压电力电缆



8.7/15kV CJPF86/SC,CJPJ85/SC

No.×mm ²	Thickness of insulation	Thickness of inner covering	Dia. of braiding wire	Thickness of sheath	Diameter	Tolerance	Conductor resistance at 20℃	Test voltage	Approx. Weight
	mm	mm	mm	mm	mm	±mm	Ω/km	kV/5min	kg/km
1×25	4.5	1.0	0.3	1.7	26.0	1.3	0.734	30.5	1070
1×35	4.5	1.0	0.3	1.7	27.0	1.3	0.529	30.5	1201
1×50	4.5	1.0	0.3	1.8	28.4	1.4	0.391	30.5	1387
1×70	4.5	1.0	0.3	1.8	30.2	1.5	0.270	30.5	1654
1×95	4.5	1.0	0.3	1.9	32.0	1.5	0.195	30.5	1970
1×120	4.5	1.2	0.3	2.0	34.0	1.6	0.154	30.5	2316
1×150	4.5	1.2	0.3	2.0	35.4	1.6	0.126	30.5	2620
1×185	4.5	1.2	0.4	2.1	37.8	1.7	0.100	30.5	3131
1×240	4.5	1.2	0.4	2.2	40.2	1.8	0.0762	30.5	3770
1×300	4.5	1.2	0.4	2.3	42.6	1.9	0.0607	30.5	4434
1×400	4.5	1.4	0.4	2.4	46.2	2.0	0.0475	30.5	5447
3×25	4.5	1.4	0.4	2.6	50.8	2.1	0.734	30.5	3865
3×35	4.5	1.4	0.4	2.7	53.2	2.2	0.529	30.5	4373
3×50	4.5	1.4	0.4	2.8	56.0	2.3	0.391	30.5	5021
3×70	4.5	1.6	0.4	2.9	60.4	2.5	0.270	30.5	6091
3×95	4.5	1.6	0.4	3.1	64.4	2.6	0.195	30.5	7249
3×120	4.5	1.6	0.4	3.2	67.6	2.7	0.154	30.5	8318
3×150	4.5	1.6	0.4	3.3	70.8	2.8	0.126	30.5	9409

12/20kV CJPF86/SC,CJPJ85/SC

No.×mm ²	Thickness of insulation	Thickness of inner covering	Dia. of braiding wire	Thickness of sheath	Diameter	Tolerance	Conductor resistance at 20℃	Test voltage	Approx. Weight
	mm	mm	mm	mm	mm	±mm	Ω/km	kV/5min	kg/km
1×35	5.5	1.0	0.3	1.8	29.2	1.4	0.529	42	1338
1×50	5.5	1.0	0.3	1.9	30.6	1.5	0.391	42	1530
1×70	5.5	1.0	0.3	1.9	32.4	1.5	0.270	42	1803
1×95	5.5	1.2	0.3	2.0	34.6	1.6	0.195	42	2165
1×120	5.5	1.2	0.3	2.1	36.2	1.7	0.154	42	2483
1×150	5.5	1.2	0.4	2.1	38.0	1.7	0.126	42	2875
1×185	5.5	1.2	0.4	2.2	40.0	1.8	0.100	42	3314
1×240	5.5	1.2	0.4	2.3	42.4	1.9	0.0762	42	3963
1×300	5.5	1.2	0.4	2.4	44.8	1.9	0.0607	42	4636
1×400	5.5	1.4	0.4	2.5	48.4	2.1	0.0475	42	5664
3×35	5.5	1.6	0.4	2.9	58.4	2.4	0.529	42	5052
3×50	5.5	1.6	0.4	3.0	61.2	2.5	0.391	42	5731
3×70	5.5	1.6	0.4	3.1	65.2	2.6	0.270	42	6760
3×95	5.5	1.6	0.4	3.2	68.8	2.7	0.195	42	7897
3×120	5.5	1.6	0.4	3.4	72.2	2.9	0.154	42	9033
3×150	5.5	1.8	0.4	3.5	76.0	3.0	0.126	42	10280

18/30kV CJPF86/SC,CJPJ85/SC

No.×mm ²	Thickness of insulation	Thickness of inner covering	Dia. of braiding wire	Thickness of sheath	Diameter	Tolerance	Conductor resistance at 20℃	Test voltage	Approx. Weight
	mm	mm	mm	mm	mm	±mm	Ω/km	kV/5min	kg/km
1×50	8.0	1.2	0.4	2.1	37.6	1.7	0.391	63	2100
1×70	8.0	1.2	0.4	2.2	39.6	1.8	0.270	63	2419
1×95	8.0	1.2	0.4	2.2	41.2	1.8	0.195	63	2748
1×120	8.0	1.2	0.4	2.3	42.8	1.9	0.154	63	3086
1×150	8.0	1.2	0.4	2.3	44.2	1.9	0.126	63	3412
1×185	8.0	1.4	0.4	2.4	46.6	2.0	0.100	63	3924
1×240	8.0	1.4	0.4	2.5	49.0	2.1	0.0762	63	4602
1×300	8.0	1.4	0.4	2.6	51.4	2.2	0.0607	63	5304
1×400	8.0	1.4	0.4	2.7	54.6	2.3	0.0475	63	6318
3×50	8.0	1.8	0.4	3.4	74.8	2.9	0.391	63	7800
3×70	8.0	1.8	0.4	3.5	79.0	3.1	0.270	63	8982
3×95	8.0	1.8	0.4	3.7	82.8	3.2	0.195	63	10253
3×120	8.0	1.8	0.4	3.8	86.0	3.3	0.154	63	11441
3×150	8.0	1.8	0.4	4.0	89.4	3.4	0.126	63	12718



SHIPBOARD VARIABLE-FREQUENCY POWER CABLE

船用变频电缆

SHIPBOARD VARIABLE-FREQUENCY POWER CABLE
船用变频电缆



电缆型号 CABLE DESIGNATION

0.6/1kV, 1.8/3kV
CJ86/SC VFD, CJ85/SC VFD, CE86/SC VFD, CE85/SC VFD

参照标准 APPLICATION STANDARD

设计 Design Guide	IEC 60092-353
绝缘材料 Insulation Material	IEC 60092-360
护套材料 Sheath Material	IEC 60092-360
阻燃 Flame Retardant	IEC 60332-1&-3 Category A
无卤 Halogen Free	IEC 60754
低烟 Low Smoke	IEC 61034
低毒 Low Toxicity	IEC 60754
低温 -25°C Low temperature -25°C	IEC 60092-350
最大额定导体运行温度 Max. Rated Conductor Temperature: 90°C	

结构 CONSTRUCTION

类别 Classification	结构描述 Construction Detail	
导体 Conductor	5类绞合镀锌铜或裸铜 Tinned or plain stranded copper, class 5	
绝缘 Insulation	乙丙橡胶 Ethylene propylene rubber (EPR) 交联聚乙烯 Cross-linked Polyethylene (XLPE)	
成缆 Cabling	成缆线芯可用合适的包带 Suitable tape may be applied on the cabled core 必要的填充保证电缆的圆整度 Fillers may be applied to obtain a circular cable.	
铠装 Armor 屏蔽 Screen	铜塑复合带绕包 CU/PS Tape providing 100% Coverage 镀锌铜丝编织 Tinned Copper Wire Braid	
外护套 Outer Sheath	热塑性低烟无卤聚烯烃 SHF1 as per IEC 60092-360 热固性低烟无卤聚烯烃 SHF2 as per IEC 60092-360	
线芯标识 Core Identification	芯数 No. of cores	标识方法 Identification
	1芯 Single core	白色 White
	3芯 Three cores	黑色 Black, 棕色 Brown, 灰色 Grey 地线为黄/绿 Yellow/Green for earth core
	注: 外护套颜色为黑色 Note: The color of outer sheath is Black	

0.6/1kV CE86/SC VFD, CE85/SC VFD

No. × mm ²	Thickness of insulation	Dia. of braiding wire	Thickness of sheath	Diameter	Tolerance	Conductor resistance at 20°C	Test voltage	Approx. Weight
	mm	mm	mm	mm	±mm	Ω/km	kV/5min	kg/km
1×10	1.0	0.2	1.2	9.6	0.7	1.95	3.5	228
1×16	1.0	0.2	1.2	10.8	0.7	1.24	3.5	301
1×25	1.2	0.3	1.3	13.6	0.9	0.795	3.5	465
1×35	1.2	0.3	1.3	15.2	1.1	0.565	3.5	585
1×50	1.4	0.3	1.4	17.4	1.1	0.393	3.5	754
1×70	1.4	0.3	1.4	19.0	1.3	0.277	3.5	981
1×95	1.6	0.3	1.5	21.4	1.5	0.210	3.5	1299
1×120	1.6	0.3	1.6	23.2	1.5	0.164	3.5	1575
1×150	1.8	0.3	1.6	25.4	1.7	0.132	3.5	1890
1×185	2.0	0.3	1.7	27.6	1.9	0.108	3.5	2305
1×240	2.2	0.3	1.8	31.2	2.1	0.0817	3.5	2965
1×300	2.4	0.3	1.8	34.0	2.3	0.0654	3.5	3618
3×25+3×6	1.2/1.0	0.3	1.7	26.4	1.7	0.795/3.39	3.5	1515
3×35+3×6	1.2/1.0	0.3	1.8	29.0	1.9	0.565/3.39	3.5	1867
3×50+3×10	1.4/1.0	0.3	1.9	33.6	2.3	0.393/1.95	3.5	2493
3×70+3×16	1.4/1.0	0.4	2.1	38.2	2.5	0.277/1.24	3.5	3473
3×95+3×16	1.6/1.0	0.4	2.3	42.8	2.9	0.210/1.24	3.5	4436
3×120+3×25	1.6/1.2	0.4	2.4	47.6	3.1	0.164/0.795	3.5	5601
3×150+3×25	1.8/1.2	0.4	2.5	51.4	3.5	0.132/0.795	3.5	6567
3×185+3×35	2.0/1.2	0.4	2.6	56.4	3.7	0.108/0.565	3.5	8141
3×240+3×50	2.2/1.4	0.4	2.8	64.6	4.3	0.0817/0.393	3.5	10566
3×300+3×50	2.4/1.4	0.4	3.0	70.2	4.7	0.0654/0.393	3.5	12624

1.8/3kV CE86/SC VFD, CE85/SC VFD

No. × mm ²	Thickness of insulation	Dia. of braiding wire	Thickness of sheath	Diameter	Tolerance	Conductor resistance at 20°C	Test voltage	Approx. Weight
	mm	mm	mm	mm	±mm	Ω/km	kV/5min	kg/km
1×10	2.2	0.2	1.2	12.0	0.7	1.95	6.5	288
1×16	2.2	0.2	1.2	13.2	0.9	1.24	6.5	368
1×25	2.2	0.3	1.3	15.6	1.1	0.795	6.5	531
1×35	2.2	0.3	1.3	17.2	1.1	0.565	6.5	659
1×50	2.2	0.3	1.4	19.0	1.3	0.393	6.5	821
1×70	2.2	0.3	1.4	20.6	1.3	0.277	6.5	1054
1×95	2.4	0.3	1.5	23.0	1.5	0.210	6.5	1381
1×120	2.4	0.3	1.6	24.8	1.7	0.164	6.5	1665
1×150	2.4	0.3	1.6	26.6	1.7	0.132	6.5	1962
1×185	2.4	0.3	1.7	28.4	1.9	0.108	6.5	2357
1×240	2.4	0.3	1.8	31.6	2.1	0.0817	6.5	2994
1×300	2.4	0.3	1.8	34.0	2.3	0.0654	6.5	3618
3×25+3×6	2.2/1.0	0.3	1.7	29.8	1.9	0.795/3.39	6.5	1696
3×35+3×6	2.2/1.0	0.3	1.8	33.4	2.3	0.565/3.39	6.5	2090
3×50+3×10	2.2/1.0	0.3	1.9	37.0	2.5	0.393/1.95	6.5	2678
3×70+3×16	2.2/1.0	0.4	2.1	41.2	2.7	0.277/1.24	6.5	3682
3×95+3×16	2.4/1.0	0.4	2.3	46.2	3.1	0.210/1.24	6.5	4667
3×120+3×25	2.4/1.2	0.4	2.4	49.8	3.3	0.164/0.795	6.5	5834
3×150+3×25	2.4/1.2	0.4	2.5	54.0	3.5	0.132/0.795	6.5	6782
3×185+3×35	2.4/1.2	0.4	2.6	57.8	3.9	0.108/0.565	6.5	8291
3×240+3×50	2.4/1.4	0.4	2.8	65.2	4.3	0.0817/0.393	6.5	10649
3×300+3×50	2.4/1.4	0.4	3.0	70.2	4.7	0.0654/0.393	6.5	12624

0.6/1kV CE86/SC VFD, CE85/SC VFD
1.8/3kV CE86/SC VFD, CE85/SC VFD
船用变频电缆
船用中压电力电缆
技术资料下载

0.6/1kV CJPJ86/SC VFD,CJPJ85/SC VFD

No.×mm ²	Thickness of insulation	Dia. of braiding wire	Thickness of sheath	Diameter	Tolerance	Conductor resistance at 20 °C	Test voltage	Approx. Weight
	mm	mm	mm	mm	±mm	Ω/km	kV/5min	kg/km
1×10	0.7	0.3	1.3	11.6	0.7	1.95	3.5	294
1×16	0.7	0.3	1.3	12.6	0.9	1.24	3.5	370
1×25	0.9	0.3	1.4	15.0	0.9	0.795	3.5	510
1×35	0.9	0.3	1.4	16.4	1.1	0.565	3.5	632
1×50	1.0	0.3	1.5	18.0	1.1	0.393	3.5	788
1×70	1.1	0.3	1.5	20.2	1.3	0.277	3.5	1032
1×95	1.1	0.3	1.6	22.4	1.5	0.21	3.5	1333
1×120	1.2	0.3	1.6	24.0	1.5	0.164	3.5	1604
1×150	1.4	0.3	1.8	26.4	1.7	0.132	3.5	1958
1×185	1.6	0.3	1.8	29.0	1.9	0.108	3.5	2351
1×240	1.7	0.3	1.8	31.4	2.1	0.0817	3.5	2957
1×300	1.8	0.3	1.9	35.0	2.3	0.0654	3.5	3623
3×25+3×6	0.9/0.7	0.3	1.9	26.6	1.7	0.795/3.39	3.5	1519
3×35+3×6	0.9/0.7	0.3	2.0	29.2	1.9	0.565/3.39	3.5	1877
3×50+3×10	1.0/0.7	0.4	2.1	33.2	2.3	0.393/1.95	3.5	2559
3×70+3×16	1.1/0.7	0.4	2.2	38.0	2.5	0.277/1.24	3.5	3472
3×95+3×16	1.1/0.7	0.4	2.4	42.8	2.9	0.21/1.24	3.5	4399
3×120+3×25	1.2/0.9	0.4	2.5	47.4	3.1	0.164/0.795	3.5	5575
3×150+3×25	1.4/0.9	0.4	2.7	51.4	3.5	0.132/0.795	3.5	6558
3×185+3×25	1.6/0.9	0.4	2.8	57.2	3.9	0.108/0.565	3.5	8128
3×240+3×50	1.7/1.0	0.4	3.0	63.2	4.3	0.0817/0.393	3.5	10477
3×300+3×50	1.8/1.0	0.4	3.2	71.2	4.7	0.0654/0.393	3.5	12570

1.8/3kV CJPJ86/SC VFD,CJPJ85/SC VFD

No.×mm ²	Thickness of insulation	Dia. of braiding wire	Thickness of sheath	Diameter	Tolerance	Conductor resistance at 20 °C	Test voltage	Approx. Weight
	mm	mm	mm	mm	±mm	Ω/km	kV/5min	kg/km
1×10	2.0	0.3	1.3	14.2	0.9	1.95	6.5	356
1×16	2.0	0.3	1.3	15.2	1.1	1.24	6.5	437
1×25	2.0	0.3	1.4	17.2	1.1	0.795	6.5	574
1×35	2.0	0.3	1.4	18.6	1.3	0.565	6.5	702
1×50	2.0	0.3	1.5	20.0	1.3	0.393	6.5	857
1×70	2.0	0.3	1.5	22.0	1.5	0.277	6.5	1100
1×95	2.0	0.3	1.6	24.2	1.7	0.21	6.5	1408
1×120	2.0	0.3	1.6	25.6	1.7	0.164	6.5	1674
1×150	2.0	0.3	1.8	27.6	1.9	0.132	6.5	2015
1×185	2.0	0.3	1.8	29.8	1.9	0.108	6.5	2392
1×240	2.0	0.3	1.8	32.0	2.1	0.0817	6.5	2990
1×300	2.0	0.3	1.9	35.4	2.3	0.0654	6.5	3647
3×25+3×6	2.0/0.7	0.3	1.9	30.8	2.1	0.795/3.39	6.5	1687
3×35+3×6	2.0/0.7	0.3	2.0	33.8	2.3	0.565/3.39	6.5	2062
3×50+3×10	2.0/0.7	0.4	2.1	37.4	2.5	0.393/1.95	6.5	2744
3×70+3×16	2.0/0.7	0.4	2.2	42.0	2.7	0.277/1.24	6.5	3676
3×95+3×16	2.0/0.7	0.4	2.4	46.6	3.1	0.21/1.24	6.5	4603
3×120+3×25	2.0/0.9	0.4	2.5	50.0	3.3	0.164/0.795	6.5	5753
3×150+3×25	2.0/0.9	0.4	2.7	54.0	3.5	0.132/0.795	6.5	6726
3×185+3×25	2.0/0.9	0.4	2.8	58.8	3.9	0.108/0.565	6.5	8234
3×240+3×50	2.0/1.0	0.4	3.0	64.6	4.3	0.0817/0.393	6.5	10594
3×300+3×50	2.0/1.0	0.4	3.2	72.0	4.7	0.0654/0.393	6.5	12643

TECHNICAL INFORMATION

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SHORT CIRCUIT CURRENT RATINGS

最小弯曲半径

MINIMUM BENDING RADIUS



CALCULATION OF ELECTRICAL DATA 电气参数的计算



电感 INDUCTANCE (FOR 2, 3 & 4 CONDUCTOR CABLES)

$$L = 0.2 \times \left[\ln \frac{2a}{d} + 0.25 \right] \times 10^{-6}$$

L : 电感 Inductance (H/m)

a : 导体间的轴向距离 Axial space between conductor (mm)

d : 导体直径 Conductor diameter (mm)

电抗 REACTANCE (FOR 2, 3 & 4 CONDUCTOR CABLES)

$$X = 2\pi \times f \times L \times I$$

X : 电抗 Reactance (Ω) f : 频率 Frequency (Hz)

L : 电感 Inductance (H/m) I : 导线长度 Conductor Length (m)

阻抗 IMPEDANCE (FOR 2, 3 & 4 CONDUCTOR CABLES)

$$Z = \sqrt{R^2 + X^2}$$

Z : 阻抗 Impedance (Ω)

R : 工作温度下电阻 Resistance at operating temp (Ω)

X : 电抗 Reactance (Ω)

压降 VOLTAGE DROP

■ 压降的计算方法如下所示 Calculation of voltage drop is performed as follows

★ 直流电路 In the case of DC circuit, given by :

$$V_d = 2 \times I \times L \times R_{dc}$$

★ 交流电路 In the case of AC circuit, given by :

单相两线系统 Single-phase two line system

$$V_d = 2 \times I \times L \times (R_{ac} \cos\theta + X \sin\theta)$$

三相三线系统 Three-phase three line system

$$V_d = \sqrt{3} \times I \times L \times (R_{ac} \cos\theta + X \sin\theta)$$

其中: V_d : 压降 Voltage drop (V)

I : 工作电流 Operating current (A)

L : 电缆长度 Cable length(km)

R_{dc} : 90°C直流导体电阻 DC conductor resistance at 90°C(Ω/km)

R_{ac} : 90°C交流导体电阻 AC conductor resistance at 90°C (Ω/km)

X : 电抗 Reactance (Ω/km) $\cos\theta$: 功率因素 Power factor ($\cos^2\theta = 1 - \sin^2\theta$)

TEMPERATURE CORRECTION FACTORS FOR CONDUCTOR RESISTANCE 导体电阻的温度校核系数

根据IEC60228规定的温度范围,校核系数(Kc)及其倒数(Kr)的值见下表

The values of the correction factor (Kc) and reciprocal of factor (Kr) are given in following table for a normal range of temperatures in accordance with IEC Pub.60228.

具体公式如下:

The values are based on the following formula:

$$K_c = 1/[1+0.00393(t-20)]=254.5/(234.5+t)$$

$$K_r = 1/K_c$$

温度 Temperature	校正系数 Correction Factor	倒数 Reciprocal of Factor	温度 Temperature	校正系数 Correction Factor	倒数 Reciprocal of Factor
C	Kc	Kr	C	Kc	Kr
5	1.063	0.941	36	0.941	1.063
6	1.058	0.945	37	0.937	1.067
7	1.054	0.949	38	0.934	1.071
8	1.049	0.953	39	0.931	1.074
9	1.045	0.957	40	0.927	1.079
10	1.041	0.961	41	0.924	1.082
11	1.037	0.964	42	0.92	1.087
12	1.032	0.969	43	0.917	1.091
13	1.028	0.973	44	0.914	1.094
14	1.024	0.977	45	0.911	1.098
15	1.02	0.98	46	0.907	1.103
16	1.016	0.984	47	0.904	1.106
17	1.012	0.988	48	0.901	1.11
18	1.008	0.992	49	0.898	1.114
19	1.004	0.996	50	0.895	1.117
20	1	1	51	0.891	1.122
21	0.996	1.004	52	0.888	1.126
22	0.992	1.008	53	0.885	1.13
23	0.988	1.012	54	0.882	1.134
24	0.985	1.015	55	0.879	1.138
25	0.981	1.019	56	0.876	1.142
26	0.977	1.024	57	0.873	1.145
27	0.973	1.028	58	0.87	1.149
28	0.97	1.031	59	0.867	1.153
29	0.966	1.035	60	0.864	1.157
30	0.962	1.04	65	0.85	1.176
31	0.959	1.043	70	0.836	1.196
32	0.955	1.047	75	0.822	1.217
33	0.951	1.052	80	0.809	1.236
34	0.948	1.055	85	0.797	1.255
35	0.944	1.059	90	0.784	1.276

CURRENT RATINGS FOR CONTINUOUS SERVICE (IEC 60092-352) 连续工作条件下的额定电流

标称截面积 Nominal Cross Section Area	90°C		
	单芯 Single core	双芯 Double core	三/四芯 Three/Four core
mm ²	A	A	A
0.5	10	8.5	7
0.75	15	13	11
1.0	18	15	13
1.5	23	20	16
2.5	30	26	21
4	40	34	28
6	52	44	36
10	72	61	50
16	96	82	67
25	127	108	89
35	157	133	110
50	196	167	137
70	242	206	169
95	293	249	205
120	339	288	237
150	389	331	272
185	444	377	311
240	522	444	365
300	601	511	421

Note

1. 导体最大允许工作温度90°C。

Maximum permissible service temperature of the conductor is 90°C.

2. 上表所给出的额定电流值是基于环境温度为45°C的条件下得出的。

The current ratings given above are based on an ambient air temperature of 45°C.

3. 上述值是由6个或是少于6个电缆成束置于一一起而得出，当一束多余6个电缆置于一一起时，上述值的修正系数为0.85。

The current ratings given above are for 6 cables of less bunched or laid together in flat formation. When more than 6 cables are bunched or laid close together, the current ratings given above should be multiplied by correction factor 0.85.

4. 四芯以上的电缆，额定电流由以下公式得出。

For cables with more than four core cables, the current ratings are calculated by the following formula.

$$I = \frac{I_1}{\sqrt[3]{N}}$$

其中，I₁:单芯电缆电流 Current for single core cable, N:电缆芯数 Number of cores.

不同环境温度的校正系数 CORRECTION FACTORS FOR VARIOUS AMBIENT AIR TEMPERATURE

导体最高温度 Maximum Conductor Temperature	环境温度的修正系数 Correction Factors for Ambient Air Temperature										
	C	35	40	45	50	55	60	65	70	75	80
90	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47	

SHORT CIRCUIT CURRENT RATINGS 短路电流

■ 此处所列举的是电缆在导体最大允许工作温度90°C下工作时的短路电流。

The short circuit currents quoted here are for cables operating normally at maximum conductor temperature of 90°C.

■ XLPE&EPR 绝缘实际上能承受短期的250°C的温度。

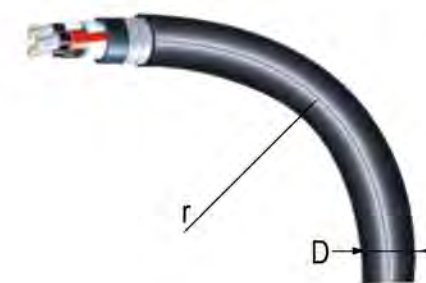
XLPE&EPR insulation is actually capable of withstanding short-term temperature up to 250°C.

标称截面积 Nominal Area	短路电流 Short Circuit Current(kA)													
	持续时间 Duration of Short Circuit in Second													
mm ²	0.03	0.05	0.07	0.1	0.14	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
1.5	1.2	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2
2.5	2.1	1.6	1.4	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4
4	3.3	2.6	2.2	1.8	1.5	1.3	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.6
6	5.0	3.8	3.2	2.7	2.3	1.9	1.6	1.4	1.2	1.1	1.0	1.0	0.9	0.9
10	8.3	6.4	5.4	4.5	3.8	3.2	2.6	2.3	2.0	1.8	1.7	1.6	1.5	1.4
16	13.2	10.2	8.7	7.2	6.1	5.1	4.2	3.6	3.2	3.0	2.7	2.6	2.4	2.3
25	20.7	16.0	13.5	11.3	9.6	8.0	6.5	5.7	5.1	4.6	4.3	4.0	3.8	3.6
35	28.9	22.4	18.9	15.8	13.4	11.2	9.1	7.9	7.1	6.5	6.0	5.6	5.3	5.0
50	41.3	32.0	27.0	22.6	19.1	16.0	13.1	11.3	10.1	9.2	8.6	8.0	7.5	7.2
70	57.8	44.8	37.9	31.7	26.8	22.4	18.3	15.8	14.2	12.9	12.0	11.2	10.6	10.0
95	78.5	60.8	51.4	43.0	36.3	30.4	24.8	21.5	19.2	17.5	16.2	15.2	14.3	13.6
120	99.1	76.8	64.9	54.3	45.9	38.4	31.3	27.1	24.3	22.2	20.5	19.2	18.1	17.2
150	123.9	96.0	81.1	67.9	57.4	48.0	39.2	33.9	30.4	27.7	25.7	24.0	22.6	21.5
185	152.8	118.4	100.0	83.7	70.7	59.2	48.3	41.9	37.4	34.2	31.6	29.6	27.9	26.5
240	198.3	153.6	129.8	108.6	91.8	76.8	62.7	54.3	48.6	44.3	41.0	38.4	36.2	34.3
300	247.8	192.0	162.2	135.7	114.7	96.0	78.4	67.9	60.7	55.4	51.3	48.0	45.2	42.9
400	330.4	256.0	216.3	181.0	153.0	128.0	104.5	90.5	80.9	73.9	68.4	64.0	60.3	57.2
500	413.0	319.9	270.4	226.2	191.2	160.0	130.6	113.1	101.2	92.4	85.5	80.0	75.4	71.5

MINIMUM BENDING RADIUS 最小弯曲半径

电缆安装时的半径不应该超过如下给出的值

The bending radius for the installation of cables should be not less than the values given as follows:



电缆类型 Type of Cable		最小弯曲半径 Min Bending Radius
1.8/3kV 及下 Up to 1.8/3kV	无铠装或无编织层 Unarmored or Unbraided	D ≤ 25mm: 4D D > 25mm: 6D
	金属编织屏蔽或铠装 Metal Braid Screened or Armored	6D
	金属带屏蔽 Tape Screened	8D
3.6/6kV 及以上 3.6/6kV Above	单芯 Single core	12D
	三芯 3-core	9D