

船用电缆

选型样本



聚氯乙烯绝缘和护套船用电力电缆

Ship Power Cable with PVC Insulation & Sheath

聚氯乙烯绝缘和护套船用控制电缆

Ship Control Cable with PVC Insulation & Sheath

船用射频电缆

Ship RF Cable

船用电缆

聚氯乙烯绝缘和护套船用电力电缆

Power Cable with PVC Insulation and Sheath for Ship

本产品适用于各种河海船舶及海上平台等水上建筑物输电能。

It is used to transmit power for ships, offshore platform and other building over water.

一、生产执行标准 GB9331.3-88

Executive standard: GB9331.3-88

二、使用条件

Working Condition

- 1、额定电压为0.6/1kV;
- 2、电缆长期允许工作温度为70℃。

- 1: Rated voltage is 0.6/1kV.
- 2: Long term working temperature allowed by cable is 70℃.

三、型号、名称

Type and Description

型号 Type	名称 Description
CVV/DA	聚氯乙烯绝缘及护套船用电力电缆, DA型 Power cable with PVC insulation and sheath for ship, DA type
CVV80/DA	聚氯乙烯绝缘聚氯乙烯内套裸铜丝编织船用电力电缆, DA型 Power cable with PVC insulation and inner sheath and bare copper wire braiding for ship, DA type
CVV90/DA	聚氯乙烯绝缘聚氯乙烯内套铜丝编织铠装船用电力电缆, DA型 Power cable with PVC insulation and inner sheath, steel wire braiding and armoring for ship, DA type
CVV82/DA	聚氯乙烯绝缘聚氯乙烯内套铜丝编织聚氯乙烯外护套船用电力电缆, DA型 Power cable with PVC insulation, PVC inner sheath, PVC outer sheath and copper wire braiding for ship, DA type
CVV92/DA	聚氯乙烯绝缘聚氯乙烯内套铜丝编织铠装聚氯乙烯外护套船用电力电缆, DA型 Power cable with PVC insulation, PVC inner sheath, PVC outer sheath, steel wire braiding and armoring for ship, DA type
CVV/SA	聚氯乙烯绝缘及护套阻燃船用电力电缆, SA型 Flame retardant power cable with PVC insulation and sheath for ship, SA type
CVV80/SA	聚氯乙烯绝缘聚氯乙烯内套裸铜丝编织船用电力电缆, SA型 Power cable with PVC insulation and inner sheath, bare copper wire braiding for ship, SA type
CVV90/SA	聚氯乙烯绝缘聚氯乙烯内套铜丝编织铠装船用电力电缆, SA型 Power cable with PVC insulation and inner sheath, steel wire braiding and armoring for ship, SA type
CVV82/SA	聚氯乙烯绝缘聚氯乙烯内套铜丝编织聚氯乙烯外护套船用电力电缆, SA型 Power cable with PVC insulation, PVC inner sheath, PVC outer sheath and copper wire braiding for ship, SA type
CVV92/SA	聚氯乙烯绝缘聚氯乙烯内套铜丝编织铠装聚氯乙烯外护套船用电力电缆, SA型 Power cable with PVC insulation, PVC inner sheath, PVC outer sheath, steel wire braiding and armoring for ship, SA type

注: DA型符合单根垂直燃烧试验要求; SA型符合成束垂直燃烧试验要求。

Note: DA type cable meets the requirements of vertical burning test for single piece. SA type cable meets the requirements of vertical burning test for bundle.

四、规格范围

Specification Range

型号 Type	芯数 Core number	截面mm ² Nominal cross section area
CVV/DA, CVV80/DA CVV90/DA, CVV82/DA CVV92/DA	1 2 3	1~300 1~120 1~185
CVV/SA, CVV80/SA, CVV90/SA, CVV82/SA, CVV92/SA	4~37	1~2.5

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芯数推荐: 1、2、3、4、5、7、10、12、14、16、19、24、27、30、33和37芯。

Cores recommended: 1,2,3,4,5,7,10,12,14,16,19,24,27,30,33or37

五、使用特性

Performance for Usage

电缆结构特性 Structure character of cable	电缆外径D Outer diameter of cable	最小弯曲半径 Min bending radius
金属编织型 metallic braiding type	任何值 any value	6D
非铠装型 Inarmored type	D<25	4D
	D≥25	6D

六、技术要求及规格尺寸

Technical Requirement and Specification & Size

电缆应能经受交流电压3.5kV或直流电压8.4kV, 5min耐压试验;
电缆规格尺寸符合GB9331.3-88中相应数据规定。

Cable should bear voltage test of AC 3.5 KV or DC 8.4KV for 5min.

Specification of cable shall meet the requirement of relevant data stipulated in GB9331.3-88 standard.

七、交货长度

Delivery length

允许按双方协议长度交货。

According to the agreement between both parties.

船用电缆

聚氯乙烯绝缘和护套船用控制电缆

Control Cable with PVC Insulation and Sheath for Ship

本产品适用于交流额定电压250V及以下的各种船舶及海上石油平台等水上建筑物,用于对干扰不敏感的电路。

It is used for the circuit insensitive to interference of AC rated voltage 250V or lower for ships, offshore platform and other building over water.

一、生产执行标准 GB9332-88

Executive standard: GB9332-88

二、使用条件

Working Condition

- 1、电缆的长期允许工作温度为60℃;
- 2、敷设时电缆的最小弯曲半径;
金属屏蔽铠装型(电缆外径D为任何值)为6D;
非铠装型(电缆外径D≤25)为4D;
(电缆外径D>25)为6D。

- 1: Long term working temperature allowed by cable is 60°C.
- 2: Min. bending radius of cable for installation is 6 times that of cable OD for cable with metallic shielding and armoring(D is for any value.)and 4 times that of cable OD for cable without armoring(D≤25); Min. bending radius of cable for installation is 6 times that of cable OD(D>25).

Note: D means outer diameter of cable

三、型号、名称及敷设要求

Type, Description and Installation Requirements

型号 Type	名称 Description	敷设要求 Installation requirements
CKVV/DA	聚氯乙烯绝缘聚氯乙烯护套船用控制电缆 Control cable with PVC insulation and sheath for ship	固定敷设特性代号: D-符合单根垂直燃烧 试验
CKVV80/DA	聚氯乙烯绝缘和护套裸铜丝编织铠装船用控制电缆 Control cable with PVC insulation and sheath, bare copper wire braiding and armoring for ship	
CKVV82/DA	聚氯乙烯绝缘铜丝编织铠装聚氯乙烯护套船用控制电缆 Control cable with PVC insulation and sheath, copper wire braiding and armoring for ship	
CKVV90/DA	聚氯乙烯绝缘聚氯乙烯内套裸铜丝编织铠装船用控制 电缆 Control cable with PVC insulation and inner sheath, bare steel wire braiding and armoring for ship	
CKVV92/DA	聚氯乙烯绝缘聚氯乙烯内套铜丝编织铠装聚氯乙烯 护套船用控制电缆 Control cable with PVC insulation and inner sheath, PVC outer sheath, steel wire braiding and armoring for ship	
CKJV/DA	交联聚乙烯绝缘聚氯乙烯护套船用控制电缆 Control cable with XLPE insulation and PVC sheath for ship	固定敷设特性代号: D-符合单根垂直燃烧 试验
CKJV80/DA	交联聚乙烯绝缘和护套裸铜丝编织铠装船用控制电缆 Control cable with XLPE insulation and sheath, bare copper wire braiding and armoring for ship	
CKJV82/DA	交联聚乙烯绝缘铜丝编织铠装聚氯乙烯护套船用控制电缆 Control cable with XLPE insulation and PVC sheath, copper wire braiding and armoring for ship	
CKJV90/DA	交联聚乙烯绝缘聚氯乙烯内套裸铜丝编织铠装船用 控制电缆 Control cable with XLPE insulation and PVC inner sheath, bare steel wire braiding and armoring for ship	
CKJV92/DA	交联聚乙烯绝缘聚氯乙烯内套铜丝编织铠装聚氯乙烯护套船用控制电缆 Control cable with XLPE insulation and PVC inner sheath, PVC outer sheath, steel wire braiding and armoring for ship	

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四、规格范围

Specification Range

型号 Type	芯数 Core number	截面mm ² (根数/单丝直径) Cross section area (pieces/diameters of single piece)
所有型号 All types	2、4、7、10、14、19、24、30、37	0.75 (7/0.37)、1.0 (7/0.43) 1.5 (7/0.52)、2.5 (7/0.68)

五、技术要求

1、电缆应经受交流电压1500V或直流电压3600V, 5min的电压试验;

2、电缆具有符合GB2951.19单根垂直燃烧试验性能要求;

3、CKV系列电缆在20℃时绝缘电阻常数不小于36.7MΩ.km; CKJ系列电缆在20℃时绝缘电阻常数不小于3670MΩ.km。

Technical Requirements

1: Cable should bear voltage test of AV 1500V or DC 3600V for 5min.

2: Vertical burning test performance for single piece shall meet the requirement of GB2951.19 standard.

3: Insulated resistance constant is no less than 36.7MΩ.km at 20℃ for CKV series cable and 3670MΩ.km at 20℃ for CKJ series cable.

六、交货要求

按双方协议规定, 长度计量误差为±0.5%。

Delivery length

According to the agreement between both parties with length error of ±0.5%.

船用电缆

船用射频电缆 Radio-frequency Cable for Ship

本产品适用于各种河海船舶及海上石油平台等各种水上建筑物，连接高频信号和对地不对称的高频信号设备；如用作无线电和雷达设备的连接。

It is used for the connection between high frequency signal equipments and high frequency signal equipments to the ground on various ships, offshore platform and other buildings above water. eg. It is used for the connection with wireless and radar equipments.

一、生产执行标准 GB9334-88

Executive standard: GB9334-88

二、型号、名称

Type, Description

Table 1

型号 Type	名称 Description
CSYV	铜导体实芯聚乙烯绝缘聚氯乙烯护套船用同轴射频电缆 Coaxial radio-frequency cable for ship with Cu conductor, solid core, PE insulation, PVC sheath
CSYV90	铜导体实芯聚乙烯绝缘聚氯乙烯内套裸钢丝编织铠装船用同轴射频电缆 Coaxial radio-frequency cable for ship with Cu conductor, solid core, PE insulation, PVC inner sheath, bare steel wire braided armoring
CSFF	镀银铜导体聚四氟乙烯绝缘聚四氟乙烯护套玻璃丝编织护层船用同轴射频电缆 Coaxial radio-frequency cable for ship with silver-plated Cu conductor, Teflon insulation, Teflon sheath, glass wire braided protecting layer

三、型号编制及字母代号含义

Type compiling and Letter meaning

船用射频电缆系列代号.....CS
铜导体.....T(省略)
聚乙烯绝缘.....Y
聚四氟乙烯绝缘或护套.....F
聚氯乙烯护套.....V

Serial number of RF cable for ship.....CS
Cu conductor.....T(omitted)
PE insulation.....Y
Teflon insulation or sheathF
PVC sheathV

注：聚四氟乙烯+玻璃丝编织浸渍外套也用F代号表示。

Note: "F" can also be used to stand for Teflon plus glass wire impregnated sheath.

四、使用特性

Performance for Usage

Table 2 CSYV、CSYV90

规格 Specification	电容 pF/m Capacitance	速比 Speed ration	最大交流电压 (kV) 峰值 Max. A.C. voltage	最大脉冲电压 (kV) 峰值 Max. pulse voltage	弯曲半径mm Bending radius		最低弯曲 温度 Min bending bending temperature
					室内 indoor	室外 outdoor	
50-7-2	100	0.66	6.5	13	5D	10D	-40℃
50-7-6	100	0.66	6.5	13			
50-12-1	100	0.66	9.5	19			

D-电缆外径(下同) D means outer diameter of cable(the following is the same)

Table 3 CSFF

规格specification	电容 pF/m capacitance	速比 Speed ration	最大交流电压 (kV) 峰值 Max. A.C. voltage	最大脉冲电压 (kV) 峰值 Max. pulse voltage	弯曲半径mm Bending radius		最低弯曲 温度 Min bending bending temperature
					室内 indoor	室外 outdoor	
50-7-8	94	0.70	6.5	13	50	100	-50℃

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Table 4 CSYV、CSYV90

规格 specification	电容 pF/m capacitance	速比 Speed ration	最大交流电压 (kV) 峰值 Max. A.C. voltage	最大脉冲电压 (kV) 峰值 Max. pulse voltage	弯曲半径mm Bending radius		最低弯曲 温度Min bending bending temperature
					室内 indoor	室外 outdoor	
75-4-1	67	0.66	2.6	5.2	5D	10D	-40℃
75-4-2	67	0.66	2.6	5.2			
75-7-2	67	0.66	5.0	10			
75-7-3	67	0.66	5.0	10			

五、结构尺寸

Structure Dimension

Table 6 CSYV、CSYV90 type

规格 Specification	内导体 Inner conductor		绝缘外径 Mm Insulation OD	外导体材料 Material of outer conductor		护套外径 Mm Sheath OD	铠装外径(如有) 最大mm Max. OD of armoring
	材料 material	结构 structure		内层 Inner layer	外层 Outer layer		
50-7-2	铜线 Copper wire	7/0.75	7.25±0.25	--	铜线 Copper wire	10.3±0.3	12.5
50-7-6		7/0.75	7.25±0.15	镀银铜线 silver- plated copper wire		11.0±0.3	13.0
50-12-1		7/1.15	11.5±0.3	--		15.0±0.4	17.0

Table 7 CSFF type

规格 Specification	内导体 Inner conductor		绝缘外径 Mm Insulation OD	外导体材料 Material of outer conductor		护套外径 Mm Sheath OD
	材料material	结构structure		内层 inner layer	外层 Outer layer	
50-7-8	镀银铜线silver- plated copper wire	7/0.82	7.25±0.15	镀银铜线 silver-plated copper wire	镀银铜线 silver-plated copper wire	10.8±0.5

Table 8 CSYV、CSYV90 Type

规格 Specification	内导体 Inner conductor		绝缘外径 Mm Insulation OD	外导体材料 Material of outer conductor		护套外径mm Sheath OD	铠装外径(如有) 最大mm Max. OD of armoring
	材料 material	结构structure		内层 Inner layer	外层 Outer layer		
75-4-1	铜线 copper wire	7/0.21	3.70±0.13	--	铜线 Copper wire	6.0±0.2	8.0
75-4-2		7/0.21	3.70±0.10	铜线 Copper wire		6.7±0.2	9.0
75-7-2		7/0.40	7.25±0.25	--		10.3±0.3	12.5
75-7-3		7/0.40	7.25±0.15	铜线 Copper wire		11.0±0.3	13.0

六、交货要求

- 1、实芯聚乙烯绝缘电缆不小于100米，短段不小于10米长；
- 2、实芯聚四氟乙烯绝缘电缆不小于45米，短段不小于3米；
- 3、短段电缆交货数量不超过交货长度的15%；
- 4、根据双方协议，可以任何长度的电缆交货；长度计量误差应不超过±0.5%。

Delivery Requirements

- 1: Cable with solid conductor and PE insulation shall be no less than 100 m. And shorter cable shall be no less than 10 m.
- 2: Cable with solid conductor and Teflon insulation shall be no less than 45 m. And shorter cable shall be no less than 3 m.
- 3: Delivery quantity of shorter cables shall not exceed 15% of delivery length.
- 4: Delivery length of cable depends on both agreements with length error allowance of ±0.5%.