

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

GB/T9333-2009.

Executive standard

GB/T9333-2009.

二、型号名称

Type, Description

型号 Type	名称 Description
CSYV	铜导体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, PE insulation, PVC sheath
CSYV90	铜导体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, 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
CSYV80	铜导体聚乙烯绝缘聚氯乙烯内套铜丝编织铠装船用同轴射频电缆 Coaxial radio-frequency cable for ship with Cu conductor, PE insulation, PVC inner sheath, CU wire braided armoring

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
铜导体或铜包钢导体.....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
钢丝编织 9
铜丝编织..... 8
无护套 0

Serial number of RF cable for ship..... CS
Cu conductor..... T(omitted)
PE insulation..... Y
Teflon insulation or sheath F
PVC sheath..... V
Steel wire braiding 9
Copper wire braiding 8
No sheath..... 0

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

Operational performance

Table 2 CSYV、CSYV90、CSYV80

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 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 temperature
					室内 Indoor	室外 Outdoor	
50-7-8	94	0.70	6.5	13	50	100	-50℃

Table 4 CSYV、CSYV90、CSYV80

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 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 5 CSYV、CSYV90、CSYV80 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、CSYV80 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
75-4-3		7/0.40	7.25±0.25	/		10.3±0.3	12.5
75-4-4		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 not less than 100meter. And shorter cable shall be not less than 10 meter.
- 2.Cable with solid conductor and Teflon insulation shall be not less than 45 meter. And shorter cable shall be no less than 3 meter.
- 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%.