

煤矿用额定电压8.7/10kV及以下交联绝缘阻燃电力电缆 Cross Linked Insulation Flame Retardant Power Cable of Rated Voltage 8.7/10kV or Lower for Coal Mine Application

一、生产执行标准

MT818.13-1999《煤矿用额定电压10kV及以下铜芯固定敷设阻燃电力电缆第3部分, 煤矿用交联聚乙烯绝缘电力电缆》

Executive standard:

MT818.13-1999 "Copper core fixed installation flame retardant power cable of rated voltage 10kv or lower for coal mine application---part 3 XLPE insulation power cable for coal mine application"

二、工作条件

- 1、电缆导体的允许最高工作温度为90℃。
- 2、短路时 (最长持续时间不超过5秒) 电缆导体的最高温度不超过250℃。
- 3、电缆敷设温度不低于0℃。

Working Condition

Max. working temperature of cable conductor is 90℃.
Max. temperature of cable conductor is no more than 250℃ during short circuit. (The longest lasting time is no more than 5 seconds.)
Cable installation temperature is no less than 0℃.

三、电缆型号名称

cable type & name

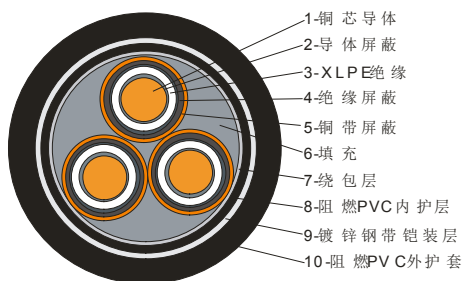
型号 type	名称name
MYJV	煤矿用铜芯交联聚乙烯绝缘聚氯乙烯护套电力电缆 Copper core XLPE insulation PVC sheath power cable for coal mine application
MYJV22	煤矿用铜芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Copper core XLPE insulation steel tape armoring PVC sheath power cable for coal mine application
MYJV32	煤矿用铜芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 Copper core XLPE insulation thin steel wire armoring PVC sheath power cable for coal mine application
MYJV42	煤矿用铜芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 Copper core XLPE insulation thick steel wire armoring PVC sheath power cable for coal mine application

四、生产范围

manufacturing range

型号 type	芯数 Core number	额定电压(kV) rated voltage			
		0.6/1	1.8/3	3.6/6、6/6	6/10、8.7/10
		标称截面(mm ²) nominal cross section area			
MYJV	3	1.5~300	10~300	25~300	25~300
MYJV22	3	4~300	10~300	25~300	25~300
MYJV32	3	4~300	10~300	25~300	25~300
MYJV42	3	4~300	10~300	25~300	25~300
MYJV	3+1	4~300	10~300	--	--
MYJV22		4~300	10~300	--	--
MYJV	4	4~185	4~185	--	--
MYJV22		4~185	4~185	--	--

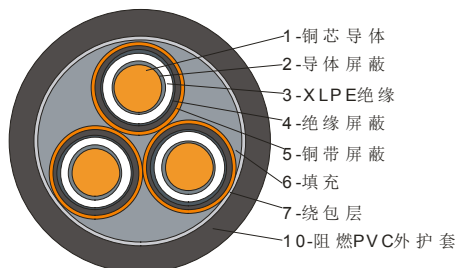
五、产品结构示意图



MYJV22

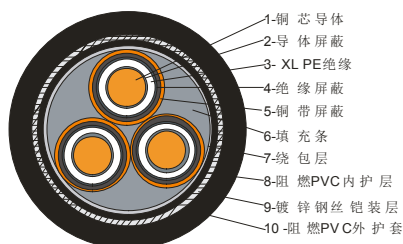
1. copper conductor
3. XLPE insulation
5. copper tape shielding
7. wrapping layer
9. galvanized steel tape armor layer

The figure of cable structure



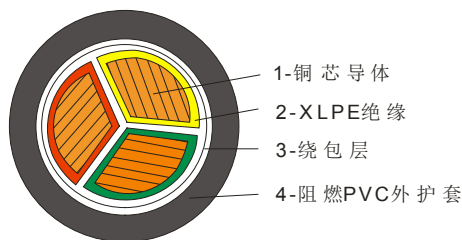
MYJV

2. conductor shielding
4. insulated shielding
6. filling strip
8. flame retardant PVC inner sheath
10. flame retardant PVC outer sheath



MYJV42

1. copper conductor
2. conductor shielding
3. XLPE insulation
4. insulated shielding
5. copper tape shielding
6. filling strip
7. wrapping layer
8. flame retardant PVC inner sheath
9. galvanized steel wire armor layer
10. flame retardant PVC outer sheath



MYJV-0.6/1kV

1. copper conductor
2. XLPE insulation
3. wrapping layer
4. flame retardant PVC outer sheath

六、产品特色

- 1、具有优异的阻燃性能, 满足煤矿用电缆特殊要求。
- 2、成品电缆的阻燃性能符合MT386各项试验要求。

product characteristic

The cable has good feature of flame resistance. It can meet special requirement of cable for coal mine application.

Flame retardant performance of finished cable shall meet all kinds of test requirement stipulated in MT386 standard.

七、电缆外径尺寸

outer diameter size of cable

MYJV-0.6/1kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度 (mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径 (mm) Approx. outer diameter of cable
3*1.5	0.7	1.8	10.0
3*2.5	0.7	1.8	10.8
3*4	0.7	1.8	11.8
3*6	0.7	1.8	12.8
3*10	0.7	1.8	15.6
3*16	0.7	1.8	18.0
3*25	0.9	1.8	20.6
3*35	0.9	1.8	20.2
3*50	1.0	1.8	23.4
3*70	1.1	1.8	26.4
3*95	1.1	1.9	30.0
3*120	1.2	2.0	33.2
3*150	1.4	2.1	37.5
3*185	1.6	2.3	42.0
3*240	1.7	2.4	46.4
3*300	1.8	2.6	51.0

MYJV22-0.6/1kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*2.5	0.7	1.8	13.6
3*4	0.7	1.8	14.5
3*6	0.7	1.8	15.6
3*10	0.7	1.8	18.5
3*16	0.7	1.8	20.8
3*25	0.9	1.8	23.5
3*35	0.9	1.8	23.0
3*50	1.0	1.8	26.2
3*70	1.1	1.9	30.5
3*95	1.1	2.0	34.5
3*120	1.2	2.2	38.0
3*150	1.4	2.3	42.2
3*185	1.6	2.5	47.0
3*240	1.7	2.6	51.6
3*300	1.8	2.8	56.4

MYJV22-0.6/1kV (3+1芯)

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*4+1*2.5	0.7	1.8	15.3
3*6+1*4	0.7	1.8	16.5
3*10+1*6	0.7	1.8	19.6
3*16+1*10	0.7	1.8	22.2
3*25+1*16	0.9	1.8	25.4
3*35+1*16	0.9	1.8	27.6
3*50+1*25	1.0	1.8	30.5
3*70+1*35	1.1	1.9	34.5
3*95+1*50	1.1	2.0	39.2
3*120+1*70	1.2	2.2	43.0
3*150+1*70	1.4	2.3	45.8
3*185+1*95	1.6	2.5	51.5
3*240+1*120	1.7	2.6	57.1
3*300+1*150	1.8	2.8	62.9

MYJV-0.6/1Kv (4芯)

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
4*4	0.7	1.8	12.8
4*6	0.7	1.8	14.0
4*10	0.7	1.8	17.0
4*16	0.7	1.8	19.6
4*25	0.9	1.8	22.8
4*35	0.9	1.8	25.2
4*50	1.0	1.8	27.0
4*70	1.1	1.8	31.0
4*95	1.1	1.9	34.6
4*120	1.2	2.0	39.0
4*150	1.4	2.1	42.4
4*185	1.6	2.3	48.0

MYJV22-0.6/1kv (4芯)

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
4*4	0.7	1.8	15.8
4*6	0.7	1.8	17.0
4*10	0.7	1.8	20.0
4*16	0.7	1.8	22.6
4*25	0.9	1.8	25.8
4*35	0.9	1.8	28.7
4*50	1.0	1.8	30.5
4*70	1.1	1.9	34.5
4*95	1.1	2.0	38.6
4*120	1.2	2.2	43.0
4*150	1.4	2.3	46.4
4*185	1.6	2.5	52.5

MYJV32-0.6/1kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*16	0.7	1.8	23.2
3*25	0.9	1.8	26.0
3*35	0.9	1.8	25.5
3*50	1.0	1.8	28.5
3*70	1.1	2.0	32.0
3*95	1.1	2.1	36.8
3*120	1.2	2.2	40.0
3*150	1.4	2.4	45.5
3*185	1.6	2.6	50.5
3*240	1.7	2.7	55.0
3*300	1.8	2.9	60.0

MYJV42-0.6/1kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*50	1.0	2.1	36.0
3*70	1.1	2.2	39.5
3*95	1.1	2.3	42.5
3*120	1.2	2.4	46.0
3*150	1.4	2.6	50.5
3*185	1.6	2.7	54.5
3*240	1.7	2.9	59.5
3*300	1.8	3.0	63.5

MYJV-1.8/3kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*10	2.0	1.8	23.2
3*16	2.0	1.8	25.5
3*25	2.0	1.8	27.5
3*35	2.0	1.9	29.5
3*50	2.0	2.0	34.0
3*70	2.0	2.1	38.0
3*95	2.0	2.3	42.2
3*120	2.0	2.5	47.5
3*150	2.0	2.6	50.0
3*185	2.0	2.7	53.2
3*240	2.0	2.9	60.0
3*300	2.0	3.0	64.0

MYJV22-1.8/3kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*10	2.0	1.8	24.0
3*16	2.0	1.8	26.2
3*25	2.0	1.8	28.5
3*35	2.0	1.9	31.5
3*50	2.0	2.1	36.5
3*70	2.0	2.3	40.5
3*95	2.0	2.4	44.5
3*120	2.0	2.5	49.5
3*150	2.0	2.6	52.0
3*185	2.0	2.7	55.2
3*240	2.0	3.0	62.0
3*300	2.0	3.1	66.5

MYJV32 -1.8/3kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*10	2.0	1.8	26.5
3*16	2.0	1.8	28.8
3*25	2.0	1.9	31.0
3*35	2.0	2.0	34.0
3*50	2.0	2.1	38.5
3*70	2.0	2.3	42.8
3*95	2.0	2.4	46.8
3*120	2.0	2.6	52.8
3*150	2.0	2.7	54.8
3*185	2.0	2.8	58.8
3*240	2.0	3.1	66.8
3*300	2.0	3.2	71.0

MYJV42-1.8/3kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*50	2.0	2.3	42.8
3*70	2.0	2.4	46.8
3*95	2.0	2.5	50.8
3*120	2.0	2.7	56.2
3*150	2.0	2.8	58.5
3*185	2.0	2.9	62.0
3*240	2.0	3.1	68.0
3*300	2.0	3.3	73.0

MYJV-1.8/3kV (3+1芯)

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*10+1*6	2.0	1.8	22.9
3*16+1*10	2.0	1.8	25.4
3*25+1*16	2.0	1.8	28.6
3*35+1*16	2.0	1.9	31.4
3*50+1*25	2.0	1.9	29.8
3*70+1*35	2.0	2.0	33.5
3*95+1*50	2.0	2.2	37.0
3*120+1*70	2.0	2.3	40.9
3*150+1*70	2.0	2.3	43.3
3*185+1*95	2.0	2.4	45.9
3*240+1*120	2.0	2.6	52.0
3*300+1*150	2.0	2.8	57.5

MYJV22-1.8/3kV (3+1芯)

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*10+1*6	2.0	1.8	24.8
3*16+1*10	2.0	1.8	27.4
3*25+1*16	2.0	1.9	30.6
3*35+1*16	2.0	2.0	32.6
3*50+1*25	2.0	1.8	31.8
3*70+1*35	2.0	2.1	35.5
3*95+1*50	2.0	2.2	39.0
3*120+1*70	2.0	2.2	43.0
3*150+1*70	2.0	2.4	45.5
3*185+1*95	2.0	2.5	48.2
3*240+1*120	2.0	2.7	55.0
3*300+1*150	2.0	2.9	60.0

MYJV-1.8/3kV (4芯)

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
4*4	2.0	1.8	18.8
4*6	2.0	1.8	20.0
4*10	2.0	1.8	22.9
4*16	2.0	1.8	25.6
4*25	2.0	1.8	28.7
4*35	2.0	2.0	31.8
4*50	2.0	2.0	32.4
4*70	2.0	2.1	36.0
4*95	2.0	2.3	40.4
4*120	2.0	2.4	43.8
4*150	2.0	2.5	47.5
4*185	2.0	2.6	51.4

MYJV22-1.8/3kV (4芯)

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
4*4	0.7	1.8	20.5
4*6	0.7	1.8	21.8
4*10	0.7	1.8	24.9
4*16	0.7	1.8	27.6
4*25	0.9	1.9	30.9
4*35	0.9	2.0	33.8
4*50	1.0	2.1	34.6
4*70	1.1	2.2	38.2
4*95	1.1	2.3	42.4
4*120	1.2	2.4	45.8
4*150	1.4	2.6	50.7
4*185	1.6	2.7	54.6

MYJV-3.6/6kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	2.5	2.1	36.0
3*35	2.5	2.1	38.0
3*50	2.5	2.2	41.0
3*70	2.5	2.4	45.0
3*95	2.5	2.5	49.0
3*120	2.5	2.6	52.0
3*150	2.5	2.7	56.0
3*185	2.5	2.8	60.0
3*240	2.6	3.0	65.0
3*300	2.8	3.2	71.0

MYJV22-3.6/6kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	2.5	2.2	41.0
3*35	2.5	2.2	43.0
3*50	2.5	2.3	47.0
3*70	2.5	2.5	51.0
3*95	2.5	2.6	54.0
3*120	2.5	2.7	58.0
3*150	2.5	2.8	62.0
3*185	2.5	2.9	65.0
3*240	2.6	3.1	71.0
3*300	2.8	3.3	77.0

MYJV32 -3.6/6kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	2.5	2.2	43.0
3*35	2.5	2.3	46.0
3*50	2.5	2.4	50.0
3*70	2.5	2.6	54.0
3*95	2.5	2.7	58.0
3*120	2.5	2.8	62.0
3*150	2.5	2.9	66.5
3*185	2.5	3.1	71.0
3*240	2.6	3.2	76.0
3*300	2.8	3.4	82.0

MYJV42 -3.6/6kV

芯数*导体标称截面(mm²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	2.5	2.4	49.5
3*35	2.5	2.5	52.0
3*50	2.5	2.6	55.0
3*70	2.5	2.7	58.0
3*95	2.5	2.8	62.0
3*120	2.5	2.9	65.5
3*150	2.5	3.0	69.5
3*185	2.5	3.2	73.0
3*240	2.6	3.3	78.5
3*300	2.8	3.5	84.0

MYJV-6/6kV、6/10 kV

芯数*导体标称截面(mm²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	3.4	2.2	40.5
3*35	3.4	2.3	43.0
3*50	3.4	2.4	46.0
3*70	3.4	2.5	50.0
3*95	3.4	2.6	53.0
3*120	3.4	2.7	56.5
3*150	3.4	2.8	60.5
3*185	3.4	2.9	64.0
3*240	3.4	3.1	69.5
3*300	3.4	3.3	74.5

MYJV22-6/6kV、6/10 kV

芯数*导体标称截面(mm²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	3.4	2.3	45.0
3*35	3.4	2.4	48.0
3*50	3.4	2.5	51.0
3*70	3.4	2.6	55.0
3*95	3.4	2.7	59.0
3*120	3.4	2.8	62.0
3*150	3.4	2.9	66.0
3*185	3.4	3.0	70.0
3*240	3.4	3.2	75.0
3*300	3.4	3.4	80.0

MYJV32-6/6kV、6/10 kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	3.4	2.4	48.5
3*35	3.4	2.5	51.5
3*50	3.4	2.6	54.5
3*70	3.4	2.7	58.0
3*95	3.4	2.9	63.5
3*120	3.4	3.0	67.0
3*150	3.4	3.1	71.0
3*185	3.4	3.2	74.0
3*240	3.4	3.4	80.0
3*300	3.4	3.5	85.0

MYJV42-6/6kV、6/10 kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	3.4	2.5	53.0
3*35	3.4	2.6	56.0
3*50	3.4	2.7	58.0
3*70	3.4	2.8	62.5
3*95	3.4	3.0	66.5
3*120	3.4	3.1	70.0
3*150	3.4	3.2	73.5
3*185	3.4	3.3	77.0
3*240	3.4	3.5	82.0
3*300	3.4	3.6	87.0

MYJV-8.7/10 kV

芯数*导体标称截面(mm ²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	4.5	2.4	45.5
3*35	4.5	2.5	48.5
3*50	4.5	2.6	51.2
3*70	4.5	2.7	55.0
3*95	4.5	2.8	58.5
3*120	4.5	2.9	62.0
3*150	4.5	3.0	65.5
3*185	4.5	3.1	69.5
3*240	4.5	3.3	74.5
3*300	4.5	3.4	79.5

MYJV22-8.7/10 kV

芯数*导体标称截面(mm²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	4.5	2.5	51.0
3*35	4.5	2.6	53.5
3*50	4.5	2.7	56.5
3*70	4.5	2.8	60.2
3*95	4.5	2.9	64.0
3*120	4.5	3.0	68.0
3*150	4.5	3.1	72.0
3*185	4.5	3.2	75.0
3*240	4.5	3.4	80.5
3*300	4.5	3.5	85.5

MYJV32-8.7/10 kV

芯数*导体标称截面(mm²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	4.5	2.6	54.0
3*35	4.5	2.7	56.7
3*50	4.5	2.8	60.0
3*70	4.5	2.9	65.5
3*95	4.5	3.0	69.0
3*120	4.5	3.1	72.0
3*150	4.5	3.3	76.0
3*185	4.5	3.4	80.0
3*240	4.5	3.5	85.0
3*300	4.5	3.7	90.0

MYJV42-8.7/10 kV

芯数*导体标称截面(mm²) Core number * nominal cross section area of conductor	绝缘厚度(mm) Insulated thickness	护套厚度(mm) Sheath thickness	电缆近似外径(mm) Approx. outer diameter of cable
3*25	4.5	2.7	58.0
3*35	4.5	2.8	61.0
3*50	4.5	2.9	64.0
3*70	4.5	3.0	68.0
3*95	4.5	3.1	71.5
3*120	4.5	3.2	75.0
3*150	4.5	3.4	79.0
3*185	4.5	3.5	82.5
3*240	4.5	3.6	88.0
3*300	4.5	3.8	92.0

八、电缆主要技术参数

main technical parameter of cable

1、20℃时导体最大直流电阻值应满足GB/T3956标准中的2类导体的规定:

Max. conductor DC resistance at 20℃ shall meet the requirement of class 2 conductor stipulated in GB/T3956 standard.

导体标称截面 (mm ²) Nominal cross section area of conductor	20℃时导体最大直流电阻 Ω/km Max. conductor DC resistance at 20℃	导体标称截面 (mm ²) Nominal cross section area of conductor	20℃时导体最大直流电阻 Ω/km Max. conductor DC resistance at 20℃
1.5	12.1	50	0.387
2.5	7.41	70	0.268
4	4.61	95	0.193
6	3.08	120	0.153
10	1.83	150	0.124
16	1.15	185	0.0991
25	0.727	240	0.0754
35	0.524	300	0.0601

2、工频交流耐压试验

A.C. proof-voltage test

额定电压kV Rated voltage	0.6/1	1.8/3	3.6/6	6/6、6/10	8.7/10
试验电压kV Test voltage	3.5	6.5	11	15	22
试验条件: 环境温度下5分钟。 Test condition: 5 minutes under environment temperature 试验要求: 绝缘应无击穿。 Test requirement: insulation without puncture					

3、局部放电量

Partial discharge

应在1.5 U₀电压下测量局部放电量, 其数值应不高于以下规定:

Partial discharge shall be measured under voltage of 1.5 U₀. And the value shall be no more than that listed in the following table

额定电压kV Rated voltage	3.6/6	6/6、6/10	8.7/10
放电量pc Discharge value	10		

4、电缆载流量(A)

cable current loading capacity

参照普通YJV系列交联电力电缆的载流量值。

Please refer to current-loading capacity of common JYV series cross linked power cable.