

额定电压 0.6/1kV 氟塑料绝缘阻燃聚氯乙烯护套电力电缆

Rated voltage 0.6/1kV Fluoroplastic Insulated Flame Retardant PVC Sheathed Power Cable

电缆型号 Cable Model

FV/FFR-0.6/1kV

适用范围 Scope of Application

广泛用于电力、石油化工、钢铁、冶炼、电厂、焦化厂、航空、电子、船舶、港口、汽车制造等高温工业中移动电器设备之间的电器连接，及耐温等特殊要求场合的控制、照明、通讯线路及监控回路的使用。

Widely used in electric power, petrochemical, steel, smelting, power plants, coking plants, aviation, electronics, ships, ports, automobile manufacturing and other high-temperature industries in the electrical connection between mobile electrical equipment, and the use of control, lighting, communication lines and monitoring circuits in occasions with special requirements such as temperature resistance

电缆结构 Cable Structure

导体 Conductor

2 类绞合或 5 类软铜导体

Type 2 Stranded or Type 5 Soft Copper Conductor

绝缘 Insulation

氟塑料（F46） Fluoroplastic (F46)

填充 Filling

高温填充绳 High temperature filled rope

包带 Wrapped Tape

薄型阻燃布带 Thin Flame Retardant Cloth Tape

外护套 Outer Sheath

阻燃聚氯乙烯（FV） Flame retardant polyvinyl chloride (FV)

产品标准 Product Standards

TICW/02-2009

线芯识别 Core Identification

2 芯cores: ●红Red●蓝Blue

3 芯cores: ●黄Yellow●绿Green●红Red

4 芯cores: ●黄Yellow●绿Green●红Red●蓝Blue

5 芯cores: ●黄Yellow●绿Green●红Red●蓝Blue●黑Black

外护套颜色 Outer Sheath Color

● 黑色（或按客户要求） Black (or as customer's request)



## 技术参数 Technical Parameters

额定电压 (U<sub>0</sub>/U) Rated voltage (U<sub>0</sub>/U)

0.6/1kV

温度等级 Temperature Grade

使用环境温度: -50°C~+150°C 导体最高运行温度: +200°C

Ambient temperature: -50°C~+150°C Maximum operating temperature of conductor: +200°C

最小弯曲半径 Minimum Bending Radius

15D

注: D 为电缆实际外径

Note: D is the actual outer diameter of the cable

敷设方式 Laying Method

穿管敷设、浅槽敷设、电缆沟敷设、隧道敷设、夹层敷设、支持式架空敷设、悬挂式架空敷设等。

Pipe laying, shallow groove laying, cable trench laying, tunnel laying, interlayer laying, supporting overhead laying, hanging overhead laying, etc.

电缆结构参数 Cable Structure & Parameters  
 FV/FFR-0.6/1kV

芯数×规格 Number of cores × specification	主绝缘厚度 Main insulation thickness mm	副绝缘厚度 Secondary insulation thickness mm	护套厚度 Sheath thickness mm	成品近似外径 Approximate outer diameter of finished product mm		电缆近似重量 Cable Approximate Weight kg/km	
				FFR	FV	FFR	FV
2×0.75	0.35	-	0.6	5.2	5.1	45.9	45.4
2×1	0.35	-	0.6	5.5	5.5	53.8	53.6
2×1.5	0.4	-	0.6	6.4	6.3	72.3	71.4
2×2.5	0.4	-	0.6	7.3	7.3	99.9	100.4
2×4	0.5	-	0.7	8.9	8.8	150.8	149.7
2×6	0.5	-	0.7	10.1	10.0	203.3	201.2
2×10	0.6	-	0.8	13.4	12.3	329.0	308.1
2×16	0.6	-	0.8	15.5	14.4	473.3	448.2
2×25	0.7	-	0.9	19.1	17.2	716.5	671.4
2×35	0.7	-	1.0	22.0	19.5	962.0	890.1
2×50	0.8	-	1.1	26.0	22.4	1351.4	1187.6
2×70	0.8	-	1.2	29.4	26.0	1805.3	1654.6
2×95	0.9	-	1.3	33.8	30.7	2413.8	2274.9
2×120	0.9	-	1.4	36.8	33.8	2962.9	2816.6
3×0.75	0.35	-	0.6	5.5	5.4	57.8	57.1
3×1	0.35	-	0.6	5.9	5.8	68.5	68.3
3×1.5	0.4	-	0.6	6.8	6.7	93.5	92.4
3×2.5	0.4	-	0.7	7.7	7.8	131.6	132.1
3×4	0.5	-	0.7	9.5	9.4	200.8	199.7
3×6	0.5	-	0.7	10.8	10.7	273.8	271.5
3×10	0.6	-	0.8	14.3	13.2	444.8	419.5
3×16	0.6	-	0.9	16.5	15.4	647.6	616.8
3×25	0.7	-	1.0	20.4	18.4	985.2	932.4
3×35	0.7	-	1.0	23.6	20.9	1327.7	1242.2
3×50	0.8	-	1.1	27.9	24.1	1869.3	1662.2
3×70	0.8	-	1.2	31.5	27.9	2512.0	2324.1
3×95	0.9	-	1.3	36.3	32.9	3367.4	3200.2
3×120	0.9	-	1.4	39.5	36.3	4149.8	3971.6
4×0.75	0.35	-	0.6	6.0	5.9	71.7	70.9
4×1	0.35	-	0.6	6.4	6.4	85.5	85.2
4×1.5	0.4	-	0.7	7.4	7.3	117.6	116.3
4×2.5	0.4	-	0.7	8.5	8.6	167.1	167.7
4×4	0.5	-	0.7	10.5	10.4	256.9	255.3
4×6	0.5	-	0.8	12.0	11.8	352.1	349.2
4×10	0.6	-	0.9	15.9	14.6	573.7	542.4
4×16	0.6	-	0.9	18.4	17.1	839.6	800.9
4×25	0.7	-	1.0	22.8	20.5	1280.8	1215.3
4×35	0.7	-	1.1	26.6	23.3	1741.6	1622.2

芯数×规格 Number of cores × specification	主绝缘厚度 Main insulation thickness mm	副绝缘厚度 Secondary insulation thickness mm	护套厚度 Sheath thickness mm	成品近似外径 Approximate outer diameter of finished product mm		电缆近似重量 Cable Approximate Weight kg/km	
				FFR	FV	FFR	FV
4×50	0.8	-	1.2	31.1	27.1	2437.0	2186.5
4×70	0.8	-	1.3	35.2	31.1	3281.8	3043.4
4×95	0.9	-	1.4	40.5	36.7	4405.4	4194.5
4×120	0.9	-	1.5	44.1	40.5	5435.8	5211.0
5×0.75	0.35	-	0.6	6.6	6.5	86.4	85.4
5×1	0.35	-	0.6	7.0	7.0	103.4	103.1
5×1.5	0.4	-	0.7	8.2	8.1	143.0	141.5
5×2.5	0.4	-	0.7	9.4	9.4	204.3	205.2
5×4	0.5	-	0.8	11.6	11.5	315.6	313.7
5×6	0.5	-	0.8	13.2	13.0	433.7	430.2
5×10	0.6	-	0.9	17.6	16.2	708.7	670.1
5×16	0.6	-	1.0	20.4	19.0	1039.7	992.1
5×25	0.7	-	1.1	25.6	22.8	1600.8	1508.3
5×35	0.7	-	1.2	29.5	26.1	2161.6	2027.7
5×50	0.8	-	1.3	34.6	30.1	3028.1	2717.5
5×70	0.8	-	1.4	39.2	34.6	4081.9	3786.1
5×95	0.9	-	1.6	45.2	40.9	5483.1	5222.1
5×120	0.9	-	1.6	49.1	45.2	6769.1	6490.1
3×2.5+1×1.5	0.4	0.4	0.7	8.2	8.2	155.7	154.4
3×4+1×2.5	0.5	0.4	0.7	10.0	9.9	235.9	232.8
3×6+1×4	0.5	0.5	0.8	11.6	11.4	329.5	324.7
3×10+1×6	0.6	0.5	0.8	14.9	13.9	522.5	493.0
3×16+1×10	0.6	0.6	0.9	17.7	16.5	776.3	735.9
3×25+1×16	0.7	0.6	1.0	21.6	19.6	1174.0	1109.0
3×35+1×16	0.7	0.6	1.1	24.7	21.8	1528.7	1416.1
3×50+1×25	0.8	0.7	1.2	29.2	25.5	2163.7	1944.2
3×70+1×35	0.8	0.7	1.3	33.2	29.4	2912.6	2690.2
3×95+1×50	0.9	0.8	1.4	38.2	34.5	3927.3	3689.2
3×120+1×70	0.9	0.8	1.5	41.8	38.2	4907.2	4661.8
4×2.5+1×1.5	0.4	0.4	0.7	9.1	9.2	193.3	192.4
4×4+1×2.5	0.5	0.4	0.7	11.2	11.1	294.9	291.8
4×6+1×4	0.5	0.5	0.8	12.9	12.7	412.3	406.8
4×10+1×6	0.6	0.5	0.9	16.8	15.6	658.9	622.0
4×16+1×10	0.6	0.6	0.9	19.9	18.5	977.9	927.4
4×25+1×16	0.7	0.6	1.1	24.6	22.0	1496.8	1404.5
4×35+1×16	0.7	0.6	1.1	27.9	24.9	1952.0	1822.0
4×50+1×25	0.8	0.7	1.3	33.0	28.8	2757.6	2477.0
4×70+1×35	0.8	0.7	1.4	37.4	33.1	3713.6	3433.5
4×95+1×50	0.9	0.8	1.5	43.2	38.9	5011.5	4719.7
4×120+1×70	0.9	0.8	1.6	47.3	43.2	6249.3	5947.4
3×2.5+2×1.5	0.4	0.4	0.7	8.9	8.9	182.6	180.0

芯数×规格 Number of cores × specification	主绝缘厚度 Main insulation thickness mm	副绝缘厚度 Secondary insulation thickness mm	护套厚度 Sheath thickness mm	成品近似外径 Approximate outer diameter of finished product mm		电缆近似重量 Cable Approximate Weight kg/km	
				FFR	FV	FFR	FV
3×4+2×2.5	0.5	0.4	0.7	10.8	10.7	275.2	270.7
3×6+2×4	0.5	0.5	0.8	12.6	12.5	391.2	383.8
3×10+2×6	0.6	0.5	0.9	16.1	15.0	611.0	575.2
3×16+2×10	0.6	0.6	0.9	19.4	18.0	917.3	864.1
3×25+2×16	0.7	0.6	1.0	23.5	21.4	1384.9	1303.2
3×35+2×16	0.7	0.6	1.1	26.5	23.5	1749.3	1610.3
3×50+2×25	0.8	0.7	1.2	31.5	27.6	2495.7	2242.1
3×70+2×35	0.8	0.7	1.3	35.8	31.6	3355.1	3088.4
3×95+2×50	0.9	0.8	1.5	41.4	37.1	4551.8	4228.9
3×120+2×70	0.9	0.8	1.6	45.5	41.4	5741.5	5416.7

导体 Conductor  
5 类软铜导体结构及参数  
Structure and Parameters of the Type 5 Soft Copper Conductor

规格 Specification mm <sup>2</sup>	根数 Numbers	单丝直径 Monofilament Diameter mm	导体外径 Conductor outer diameter mm	导体电阻 Conductor resistance Ω/km
0.75	24/0.20	0.2	1.13	260
1	32/0.20	0.2	1.3	195
1.5	48/0.20	0.2	1.6	13.3
2.5	77/0.20	0.2	2.02	7.98
4	56/0.30	0.3	2.59	4.95
6	84/0.30	0.3	3.17	3.30
10	77/0.40	0.4	4.1	1.91
16	7*17/0.40	0.4	5.5	1.21
25	7*27/0.40	0.4	6.7	0.780
35	7*38/0.40	0.4	8.2	0.554
50	19*20/0.40	0.4	10	0.386
70	19*28/0.40	0.4	11.6	0.272
95	19*38/0.40	0.4	13.5	0.206
120	24*38/0.40	0.4	14.4	0.161

2 类绞合导体结构及参数

Structure and Parameters of the Type 2 Stranded Conductor

规格 Specification  mm <sup>2</sup>	根数 Numbers	单丝直径 Monofilament Diameter  mm	导体外径 Conductor outer diameter  mm	导体电阻 Conductor resistance  Ω/km
0.75	7	0.30	1.1	24.5
1	7	0.37	1.29	18.1
1.5	7	0.43	1.56	12.1
2.5	7	0.68	2.04	7.41
4	7	0.85	2.55	4.61
6	7	1.05	3.1	3.08
10	7	1.35	4.1	1.83
16	7	1.70	5.5	1.15
25	7	2.14	6.1	0.727
35	7	2.54	7.2	0.524
50	7	2.96	8.4	0.387
70	14	2.54	10.0	0.268
95	19	2.52	12.0	0.193
120	19	2.88	13.0	0.153