

额定电压 450/750V 氟塑料绝缘氟塑料护套控制电缆

Rated voltage 450/750V fluoroplastic insulated fluoroplastic sheathed control cable

电缆型号Cable model number:

KFF/KFFR-450/750

适用范围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 control and lighting of special requirements such as temperature resistance. , the use of communication lines and monitoring loops.



电缆结构

Cable structure

导体

Conductor

2 类绞合或 5 类软铜导体
Category 2 stranded or
Category 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 tape

外护套Outer sheath

氟塑料 (F46)
Fluoroplastic (F46)

产品标准Product

Standards

TICW/03-2009

线芯识别Core identification

线芯加编码Wire core coding

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 parameter

额定电压Rated voltage (U₀/U)

450/750V

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

最小弯曲半径Minimum bending radius

16D (5类导体结构) (Category 5 conductor structure)

20D (2类导体结构) 注: D 为电缆实际外径(Category 2 conductor structure) 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****KFF/KFFR-450/750V**

芯数 number of cores	规格 spec. mm ²	绝缘厚度 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	
				KFFR	KFF	KFFR	KFF
2	0.5	0.3	0.6	4.8	4.7	37.6	37.1
2	0.75	0.3	0.6	5.2	5.1	45.8	45.1
2	1	0.3	0.6	5.5	5.5	53.4	53.0
2	1.5	0.35	0.6	6.3	6.3	70.7	70.1
2	2.5	0.35	0.6	7.2	7.2	97.8	97.6
2	4	0.45	0.6	8.8	8.7	145.4	143.6
2	6	0.45	0.6	9.9	9.8	195.4	192.4
3	0.5	0.3	0.6	5.0	5.0	45.9	45.3
3	0.75	0.3	0.6	5.5	5.4	56.9	56.1
3	1	0.3	0.6	5.8	5.8	67.3	66.7
3	1.5	0.35	0.6	6.7	6.6	90.7	89.8
3	2.5	0.35	0.6	7.6	7.7	128.1	127.7
3	4	0.45	0.6	9.3	9.2	193.5	191.1
3	6	0.45	0.6	10.6	10.4	263.5	259.6
4	0.5	0.3	0.6	5.4	5.4	55.5	54.7
4	0.75	0.3	0.6	5.9	5.9	69.7	68.6
4	1	0.3	0.6	6.3	6.3	82.9	82.1
4	1.5	0.35	0.6	7.3	7.2	113.1	112.0
4	2.5	0.35	0.6	8.3	8.4	161.5	160.9
4	4	0.45	0.6	10.2	10.1	246.3	243.1
4	6	0.45	0.7	11.8	11.7	346.2	341.2

TICW/03-2009 Fluoroplastic insulated control cable with rated voltage of 0.6/1kV and below

5	0.5	0.3	0.6	5.9	5.8	65.7	64.7
5	0.75	0.3	0.6	6.4	6.4	83.0	81.7
5	1	0.3	0.6	6.9	6.9	99.3	98.4
5	1.5	0.35	0.6	7.9	7.9	136.4	135.1
5	2.5	0.35	0.6	9.1	9.2	196.3	195.5
5	4	0.45	0.7	11.4	11.1	309.1	297.1
5	6	0.45	0.7	13.0	12.8	423.5	417.5
6	0.5	0.3	0.6	6.3	6.3	76.2	75.0
6	0.75	0.3	0.6	7.0	6.9	96.8	95.2
6	1	0.3	0.6	7.5	7.4	116.2	115.1
6	1.5	0.35	0.6	8.6	8.6	160.3	158.8
6	2.5	0.35	0.6	10.0	10.0	231.9	230.9
6	4	0.45	0.7	12.5	12.4	366.0	361.4
6	6	0.45	0.7	14.2	14.0	502.9	495.6
7	0.5	0.3	0.6	6.3	6.3	82.6	81.4
7	0.75	0.3	0.6	7.0	6.9	105.8	104.0
7	1	0.3	0.6	7.5	7.4	127.6	126.3

芯数 numbe r of cores	规格 spec. mm ²	绝缘厚度 insulatio n 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	
				KFFR	KFF	KFFR	KFF
7	1.5	0.35	0.6	8.6	8.6	177.1	175.4
7	2.5	0.35	0.6	10.0	10.0	258.1	256.9
7	4	0.45	0.7	12.5	12.4	408.1	403.0
7	6	0.45	0.7	14.2	14.0	563.5	555.5
8	0.5	0.3	0.6	6.8	6.7	93.3	91.9
8	0.75	0.3	0.6	7.5	7.4	119.8	117.8
8	1	0.3	0.6	8.1	8.0	144.7	143.3
8	1.5	0.35	0.6	9.3	9.3	201.4	199.5
8	2.5	0.35	0.6	10.8	10.9	294.3	292.9
8	4	0.45	0.7	13.6	13.4	465.8	460.0
8	6	0.45	0.7	15.5	15.3	644.2	635.0
9	0.5	0.3	0.6	7.4	7.3	105.7	104.0
9	0.75	0.3	0.6	8.2	8.1	135.7	133.5
9	1	0.3	0.6	8.8	8.8	164.2	162.5
9	1.5	0.35	0.6	10.2	10.2	229.0	226.7
9	2.5	0.35	0.7	12.1	12.2	343.4	342.0
9	4	0.45	0.7	15.0	14.8	530.3	523.5
9	6	0.45	0.7	17.1	16.9	733.3	722.7
10	0.5	0.3	0.6	7.9	7.8	116.7	114.9
10	0.75	0.3	0.6	8.7	8.6	150.3	147.7
10	1	0.3	0.6	9.4	9.4	182.0	180.2
10	1.5	0.35	0.6	10.9	10.9	254.2	251.7
10	2.5	0.35	0.7	12.9	13.0	381.5	379.9
10	4	0.45	0.7	16.0	15.9	590.2	582.6
10	6	0.45	0.9	18.8	18.5	843.9	831.5
12	0.5	0.3	0.6	8.1	8.0	132.1	130.1
12	0.75	0.3	0.6	9.0	8.9	171.1	168.2
12	1	0.3	0.6	9.7	9.7	208.1	206.1
12	1.5	0.35	0.7	11.5	11.4	300.6	297.6
12	2.5	0.35	0.7	13.4	13.4	440.3	438.1
12	4	0.45	0.7	16.6	16.4	683.9	675.1
12	6	0.45	0.9	19.4	19.1	978.0	963.9
14	0.5	0.3	0.6	8.5	8.4	149.2	146.8
14	0.75	0.3	0.6	9.5	9.3	194.1	190.9
14	1	0.3	0.6	10.2	10.2	236.7	234.3
14	1.5	0.35	0.7	12.1	12.0	342.4	339.0
14	2.5	0.35	0.7	14.1	14.2	503.6	501.1

TICW/03-2009 Fluoroplastic insulated control cable with rated voltage of 0.6/1kV and below

14	4	0.45	0.9	17.9	17.3	810.5	774.6
14	6	0.45	0.9	20.5	20.2	1122.3	1106.2
16	0.5	0.3	0.6	9.0	8.9	166.9	164.3
16	0.75	0.3	0.6	10.0	9.8	217.8	214.1

芯数 numbe r of cores	规格 spec. mm ²	绝缘厚度 insulatio n 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	
				KFFR	KFF	KFFR	KFF
16	1	0.3	0.6	10.8	10.7	266.2	263.4
16	1.5	0.35	0.7	12.7	12.7	385.4	381.5
16	2.5	0.35	0.7	14.9	15.0	568.5	565.7
16	4	0.45	0.9	18.9	18.7	915.1	903.4
16	6	0.45	0.9	21.6	21.3	1269.5	1251.6
19	0.5	0.3	0.6	9.4	9.3	191.4	188.5
19	0.75	0.3	0.6	10.5	10.3	251.0	246.7
19	1	0.3	0.7	11.5	11.5	315.9	312.7
19	1.5	0.35	0.7	13.4	13.4	446.0	441.5
19	2.5	0.35	0.7	15.7	15.8	660.9	657.2
19	4	0.45	0.9	20.0	19.8	1063.6	1050.1
19	6	0.45	0.9	22.9	22.5	1480.1	1459.1
21	0.5	0.3	0.6	9.9	9.8	209.8	206.4
21	0.75	0.3	0.6	11.0	10.9	275.4	270.7
21	1	0.3	0.7	12.1	12.1	346.7	343.2
21	1.5	0.35	0.7	14.1	14.1	490.2	485.2
21	2.5	0.35	0.7	16.5	16.6	727.6	723.4
21	4	0.45	0.9	21.0	20.8	1171.0	1156.2
21	6	0.45	0.9	24.1	23.8	1631.3	1608.1
22	0.5	0.3	0.6	10.5	10.4	223.7	220.0
24	0.75	0.3	0.7	12.4	12.3	327.4	321.7
24	1	0.3	0.7	13.5	13.4	400.4	396.3
24	1.5	0.35	0.7	15.7	15.7	566.9	561.1
24	2.5	0.35	0.9	18.8	19.0	868.7	864.5
24	4	0.45	0.9	23.5	23.3	1355.1	1337.7
24	6	0.45	1.1	27.4	26.6	1927.3	1860.3
28	0.5	0.3	0.7	11.8	11.7	284.9	280.3
28	0.75	0.3	0.7	13.2	13.0	373.8	367.4
28	1	0.3	0.7	14.3	14.2	458.2	453.4
28	1.5	0.35	0.7	16.7	16.6	650.7	643.9
28	2.5	0.35	0.9	20.0	20.1	997.5	992.4
28	4	0.45	0.9	25.0	24.7	1560.1	1539.9
28	6	0.45	1.1	29.1	28.7	2219.5	2187.4
31	0.5	0.3	0.7	12.3	12.1	310.6	305.6
31	0.75	0.3	0.7	13.7	13.5	408.2	401.2
31	1	0.3	0.7	14.8	14.7	501.1	495.9
31	1.5	0.35	0.7	17.4	17.3	712.9	705.5

TICW/03-2009 Fluoroplastic insulated control cable with rated voltage of 0.6/1kV and below

31	2.5	0.35	0.9	20.8	20.9	1093.3	1087.7
31	4	0.45	0.9	26.0	25.7	1712.5	1690.4
31	6	0.45	1.1	30.3	29.8	2436.7	2401.9
37	0.5	0.3	0.7	12.7	12.6	356.0	350.3

芯数 number of cores	规格 spec. mm ²	绝缘厚度 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	
				KFFR	KFF	KFFR	KFF
37	0.75	0.3	0.7	14.2	14.0	470.1	462.1
37	1	0.3	0.7	15.4	15.3	578.9	572.8
37	1.5	0.35	0.9	18.5	18.4	852.9	844.2
37	2.5	0.35	0.9	21.6	21.7	1269.1	1261.9
37	4	0.45	1.1	27.5	26.8	2033.1	1967.9
37	6	0.45	1.1	31.5	31.0	2838.9	2798.6

导体conductor

Category 类软铜导体结构及参数

Category 5 tinned soft copper conductor structure and parameters

规格 Spec. mm ²	根数 Number of wires	单丝直径 Diameter of wires mm	导体外径 conductor outer diameter mm	导体电阻 conductor resistance Ω/km
0.5	16/0.20	0.2	0.92	39.0
0.75	24/0.20	0.2	1.13	26.0
1	32/0.20	0.2	1.3	19.5
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

2 类绞合导体结构及参数

Category 2 Stranded conductor structure and parameters

规格 Spec. mm ²	根数 Number of wires	单丝直径 Diameter of wires mm	导体外径 conductor outer diameter mm	导体电阻 conductor resistance Ω/km
0.5	7	0.30	0.90	36.0
0.75	7	0.37	1.10	24.5
1	7	0.43	1.29	18.1
1.5	7	0.52	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	3.10	3.08
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