

额定电压 450/750V 氟塑料绝缘铜丝编织屏蔽氟塑料护套控制电缆 Rated Voltage 450/750V Fluoroplastic Insulated Copper Wire Braided Shielded Fluoroplastic Sheathed Control Cable

电缆型号 Cable Model

KFFP/KFFRP-450/750V

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

屏蔽 Shield

裸铜丝(≥80%编织密度)

Bare copper wire (≥80% braiding density)

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 Cores and Coding

外护套颜色 Outer Sheath Color

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

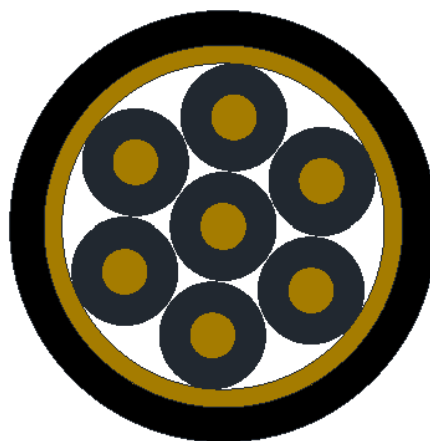
技术参数 Technical Parameters

额定电压 (U_0/U) Rated voltage (U_0/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: -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)

20D (2 类导体结构) 注: D 为电缆实际外径

16D (Type 5 Conductor Structure)

20D (Type 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

KFFP/KFFRP-450/750V

芯数 Number of cores	规格 Specification mm ²	绝缘厚度 Insulation Thickness mm	编织丝直径 Braided wire diameter 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	
					KFFRP	KFFP	KFFRP	KFFP
2	0.5	0.3	0.15	0.6	5.4	5.3	54.6	54.0
2	0.75	0.3	0.15	0.6	5.8	5.7	64.4	63.5
2	1	0.3	0.15	0.6	6.1	6.1	73.3	72.8
2	1.5	0.35	0.15	0.6	6.9	6.9	93.4	92.7
2	2.5	0.35	0.15	0.6	7.8	7.8	123.8	123.8
2	4	0.45	0.15	0.6	9.4	9.3	177.3	175.1
2	6	0.45	0.15	0.6	10.5	10.4	231.5	228.0
3	0.5	0.3	0.15	0.6	5.6	5.6	63.8	63.1
3	0.75	0.3	0.15	0.6	6.1	6.0	76.5	75.4
3	1	0.3	0.15	0.6	6.4	6.4	88.2	87.6
3	1.5	0.35	0.15	0.6	7.3	7.2	114.7	113.7
3	2.5	0.35	0.15	0.6	8.2	8.3	155.8	155.5
3	4	0.45	0.15	0.6	9.9	9.8	227.4	224.6
3	6	0.45	0.15	0.6	11.2	11.0	302.0	297.6
4	0.5	0.3	0.15	0.6	6.0	6.0	75.0	74.0
4	0.75	0.3	0.15	0.6	6.5	6.5	91.0	89.7
4	1	0.3	0.15	0.6	6.9	6.9	105.8	104.9
4	1.5	0.35	0.15	0.6	7.9	7.8	139.3	138.1
4	2.5	0.35	0.15	0.6	8.9	9.0	191.8	191.4
4	4	0.45	0.15	0.6	10.8	10.7	283.6	280.1
4	6	0.45	0.2	0.7	12.6	12.5	404.0	398.2
5	0.5	0.3	0.15	0.6	6.5	6.4	86.8	85.6
5	0.75	0.3	0.15	0.6	7.0	7.0	106.2	104.5
5	1	0.3	0.15	0.6	7.5	7.5	124.2	123.1
5	1.5	0.35	0.15	0.6	8.5	8.5	165.1	163.7
5	2.5	0.35	0.15	0.6	9.7	9.8	229.5	228.9
5	4	0.45	0.2	0.7	12.2	11.9	365.0	346.3
5	6	0.45	0.2	0.7	13.8	13.6	487.1	480.2
6	0.5	0.3	0.15	0.6	6.9	6.9	99.0	97.6
6	0.75	0.3	0.15	0.6	7.6	7.5	121.9	120.0
6	1	0.3	0.15	0.6	8.1	8.0	143.2	142.0
6	1.5	0.35	0.15	0.6	9.2	9.2	191.6	190.0
6	2.5	0.35	0.15	0.6	10.6	10.6	268.2	267.5
6	4	0.45	0.2	0.7	13.3	13.2	427.1	421.9
6	6	0.45	0.2	0.7	15.0	14.8	572.7	564.3
7	0.5	0.3	0.15	0.6	6.9	6.9	105.5	104.0
7	0.75	0.3	0.15	0.6	7.6	7.5	130.9	128.8
7	1	0.3	0.15	0.6	8.1	8.0	154.6	153.3

芯数 Number of cores	规格 Specification mm ²	绝缘厚度 Insulation Thickness mm	编织丝直径 Braided wire diameter 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	
					KFFRP	KFFP	KFFRP	KFFP
7	1.5	0.35	0.15	0.6	9.2	9.2	208.4	206.6
7	2.5	0.35	0.15	0.6	10.6	10.6	294.4	293.4
7	4	0.45	0.2	0.7	13.3	13.2	469.2	463.5
7	6	0.45	0.2	0.7	15.0	14.8	633.2	624.2
8	0.5	0.3	0.15	0.6	7.4	7.3	117.9	116.2
8	0.75	0.3	0.15	0.6	8.1	8.0	146.9	144.5
8	1	0.3	0.15	0.6	8.7	8.6	173.9	172.4
8	1.5	0.35	0.15	0.6	9.9	9.9	235.3	233.2
8	2.5	0.35	0.15	0.7	11.6	11.7	342.1	340.9
8	4	0.45	0.2	0.7	14.4	14.2	532.2	525.7
8	6	0.45	0.2	0.7	16.3	16.1	720.1	709.7
9	0.5	0.3	0.15	0.6	8.0	7.9	132.5	130.6
9	0.75	0.3	0.15	0.6	8.8	8.7	165.5	162.8
9	1	0.3	0.15	0.6	9.4	9.4	196.2	194.5
9	1.5	0.35	0.15	0.6	10.8	10.8	266.3	263.9
9	2.5	0.35	0.2	0.7	12.9	13.0	402.5	401.5
9	4	0.45	0.2	0.7	15.8	15.6	603.7	596.2
9	6	0.45	0.2	0.9	18.3	18.1	843.7	831.6
10	0.5	0.3	0.15	0.6	8.5	8.4	145.3	143.2
10	0.75	0.3	0.15	0.6	9.3	9.2	182.0	179.0
10	1	0.3	0.15	0.6	10.0	10.0	216.2	214.3
10	1.5	0.35	0.15	0.7	11.7	11.7	302.6	299.9
10	2.5	0.35	0.2	0.7	13.7	13.8	444.7	443.5
10	4	0.45	0.2	0.7	16.8	16.7	668.8	660.4
10	6	0.45	0.2	0.9	19.6	19.3	935.2	921.4
12	0.5	0.3	0.15	0.6	8.7	8.6	161.5	159.2
12	0.75	0.3	0.15	0.6	9.6	9.5	203.8	200.5
12	1	0.3	0.15	0.6	10.3	10.3	243.5	241.3
12	1.5	0.35	0.2	0.7	12.3	12.2	356.7	353.4
12	2.5	0.35	0.2	0.7	14.2	14.2	505.6	503.9
12	4	0.45	0.2	0.7	17.4	17.2	765.3	755.6
12	6	0.45	0.2	0.9	20.2	19.9	1072.5	1057.0
14	0.5	0.3	0.15	0.6	9.1	9.0	180.1	177.4
14	0.75	0.3	0.15	0.6	10.1	9.9	228.5	224.8
14	1	0.3	0.15	0.6	10.8	10.8	273.9	271.3
14	1.5	0.35	0.2	0.7	12.9	12.8	401.5	397.7
14	2.5	0.35	0.2	0.7	14.9	15.0	572.4	570.3
14	4	0.45	0.2	0.9	18.7	18.5	897.6	886.3
14	6	0.45	0.2	0.9	21.3	21.0	1222.1	1204.4
16	0.5	0.3	0.15	0.6	9.6	9.5	199.6	196.5
16	0.75	0.3	0.15	0.6	10.6	10.4	254.1	249.9

芯数 Number of cores	规格 Specification mm ²	绝缘厚度 Insulation Thickness mm	编织丝直径 Braided wire diameter 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	
					KFFRP	KFFP	KFFRP	KFFP
16	1	0.3	0.15	0.7	11.6	11.5	313.8	310.8
16	1.5	0.35	0.2	0.7	13.5	13.5	447.7	443.6
16	2.5	0.35	0.2	0.7	15.7	15.8	641.3	638.9
16	4	0.45	0.2	0.9	19.7	19.5	1007.2	994.6
16	6	0.45	0.2	0.9	22.4	22.1	1375.1	1355.6
19	0.5	0.3	0.15	0.6	10.0	9.9	225.8	222.4
19	0.75	0.3	0.15	0.6	11.1	10.9	289.2	284.4
19	1	0.3	0.2	0.7	12.3	12.3	372.2	368.7
19	1.5	0.35	0.2	0.7	14.2	14.2	511.7	506.9
19	2.5	0.35	0.2	0.7	16.5	16.6	737.8	734.6
19	4	0.45	0.2	0.9	20.8	20.6	1161.0	1146.5
19	6	0.45	0.25	0.9	23.9	23.5	1620.4	1597.2
21	0.5	0.3	0.15	0.6	10.5	10.4	245.9	242.1
21	0.75	0.3	0.15	0.7	11.8	11.7	324.2	318.8
21	1	0.3	0.2	0.7	12.9	12.9	405.8	402.1
21	1.5	0.35	0.2	0.7	14.9	14.9	559.3	554.1
21	2.5	0.35	0.2	0.7	17.3	17.8	808.6	830.6
21	4	0.45	0.2	0.9	21.8	21.6	1273.7	1257.8
21	6	0.45	0.25	0.9	25.1	24.8	1779.3	1753.8
22	0.5	0.3	0.15	0.6	11.1	11.0	262.1	258.0
24	0.75	0.3	0.2	0.7	13.2	13.1	388.2	381.6
24	1	0.3	0.2	0.7	14.3	14.2	466.3	461.9
24	1.5	0.35	0.2	0.7	16.5	16.5	644.1	638.0
24	2.5	0.35	0.2	0.9	19.6	19.8	960.5	956.8
24	4	0.45	0.25	0.9	24.5	24.3	1499.4	1480.5
24	6	0.45	0.25	1.1	28.4	28.0	2094.6	2064.0
28	0.5	0.3	0.2	0.7	12.6	12.5	342.6	337.4
28	0.75	0.3	0.2	0.7	14.0	13.8	438.3	430.9
28	1	0.3	0.2	0.7	15.1	15.0	528.1	522.9
28	1.5	0.35	0.2	0.9	17.9	17.8	758.4	751.2
28	2.5	0.35	0.2	0.9	20.8	20.9	1094.8	1090.4
28	4	0.45	0.25	0.9	26.0	25.7	1713.5	1691.7
28	6	0.45	0.25	1.1	30.1	29.7	2397.4	2362.5
31	0.5	0.3	0.2	0.7	13.1	12.9	370.6	364.8
31	0.75	0.3	0.2	0.7	14.5	14.3	475.1	467.1
31	1	0.3	0.2	0.7	15.6	15.5	573.7	568.1
31	1.5	0.35	0.2	0.9	18.6	18.5	824.8	817.0
31	2.5	0.35	0.2	0.9	21.6	21.7	1194.6	1189.7
31	4	0.45	0.25	1.1	27.4	26.7	1911.8	1848.4
31	6	0.45	0.25	1.1	31.3	30.8	2621.9	2584.2
37	0.5	0.3	0.2	0.7	13.5	13.4	418.2	411.8

芯数 Number of cores	规格 Specification mm2	绝缘厚度 Insulation Thickness mm	编织丝直径 Braided wire diameter 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	
					KFFRP	KFFP	KFFRP	KFFP
37	0.75	0.3	0.2	0.7	15.0	14.8	539.7	530.6
37	1	0.3	0.2	0.7	16.2	16.1	654.3	647.9
37	1.5	0.35	0.2	0.9	19.3	19.2	942.7	933.6
37	2.5	0.35	0.2	0.9	22.4	22.5	1374.5	1368.0
37	4	0.45	0.25	1.1	28.5	28.2	2200.7	2173.1
37	6	0.45	0.25	1.1	32.5	32.0	3031.8	2988.5

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 ²	根数/直径 Numbers/Diameter	单丝直径 Monofilament Diameter	导体外径 Conductor outer diameter	导体电阻 Conductor resistance
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

Structure and Parameters of the Type 2 Stranded Conductor

规格 Specification mm ²	根数 Numbers	单丝直径 Monofilament Diameter	导体外径 Conductor outer diameter	导体电阻 Conductor resistance
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