

聚烯烃绝缘控制电缆 Plastic insulated and sheathed control cable

产品用途

本产品适用于交流额定电压450/750V及以下自动控制或监测系统，电器仪表连接等场合用运输线。低烟无卤聚烯烃具有燃烧时发烟量小，无卤酸气体释放，属于环保型电缆，适用于对消防具有特殊要求的场合。

产品执行标准

GB/T 9330-2008

使用特性

- 1、额定电压 U_0/U 为450/750V；
 - 2、电缆导体的长期允许工作温度为70℃；
 - 3、电缆安装敷设温度应不低于0℃
 - 4、电缆允许弯曲半径：无铠装层的电缆，应不小于电缆外径的6倍；有铠装或铜带屏蔽结构的电缆，应不小于电缆外径的12倍；
- 有屏蔽层结构的软电缆，应不小于电缆外径的6倍。

Application

This product is applied for transmission line in automatic control or monitoring system, electrical instrument connection and other occasions of rated voltage up to and including ac 450/750V. Low smoke halogen free polyolefin with low smoking and no halogen acid gas when burns. It is environmental protection type cable, which is suitable for occasions of special requirement for fireproof.

Executive standard

GB/T 9330-2008

Service property

1. The rated voltage U_0/U of the cable should be 450/750V.
2. Allowed long-term operating temperature of cable conductor should be 70℃.
3. Cable laying temperature should be not less than 0℃.
4. Recommended allowable bending radius: For non-armored cable should be not less than 6 times outer diameter of the cable; For armored or copper tape shielded structure cable should be not less than 12 times outer diameter of the cable; For flexible cable with shielded structure should be not less than 6 times outer diameter of the cable.

基本型号及名称 Type and description

型号 Type	名称 Description
KEE	聚烯烃绝缘聚烯烃护套控制电缆 Polyolefin insulated polyolefin sheathed control cable
KEEP	聚烯烃绝缘聚烯烃护套铜丝编织屏蔽控制电缆 Polyolefin insulated polyolefin sheathed copper wire braided shielded control cable
KEEP2	聚烯烃绝缘聚烯烃护套铜带屏蔽控制电缆 Polyolefin insulated polyolefin sheathed copper tape shielded control cable
KEEP3	聚烯烃绝缘聚烯烃护套铝塑复合带屏蔽控制电缆 Polyolefin insulated polyolefin sheathed aluminum polyester composite film wrapped shielded control cable
KEE23	聚烯烃绝缘聚烯烃护套钢带铠装控制电缆 Polyolefin insulated polyolefin sheathed steel tape armored control cable
KEEP2-23	聚烯烃绝缘聚烯烃护套铜带屏蔽钢带铠装控制电缆 Polyolefin insulated polyolefin sheathed copper tape shielded steel tape armored control cable
KEE33	聚烯烃绝缘聚烯烃护套钢丝铠装控制电缆 Polyolefin insulated polyolefin sheathed steel wire armored control cable



代号名称和含义 Code and meaning

项目 Item	代号 Code	说明 Description
系列代号 Series coding	K	控制电缆 Control cable
燃烧特性 Burning characteristic	-	非阻燃 Non flame retardant
	Z(A/B/C)	阻燃A/B/C级 Flame retardant grade (A/B/C)
燃烧特性 Burning characteristic	N	耐火 Fire resistant
	DDZ	低烟低卤阻燃 Low smoke low halogen flame retardant
	WDZ	无卤低烟阻燃 Low smoke halogen free flame retardant
	WDZN	无卤低烟阻燃式 Low smoke halogen free flame retardant fire resistant
	-	第1种或第2种铜导体 Class 1 and 2 copper conductor
导体 Conductor	H	第5种铜导体 Class 5 copper conductor
	L	铝导体 Aluminum conductor
绝缘 Insulation	E	聚乙烯绝缘 Polyolefin insulation
护套或内护套 Sheath or inner sheath	P	铜丝编织屏蔽 Copper wire braided shield
	P2	铜带绕包屏蔽 Copper tape wrapped shield
铠装 Armor	P3	铝塑合金带绕包屏蔽 Aluminum polyester composite film wrapped shield
	2	钢带铠装 Steel tape armor
	3	钢丝铠装 Steel wire armor
外护套 Outer sheath	3	聚乙烯护套 Polyolefin sheath

主要技术指标

- 20℃时导体直流电阻符合GB/T3956规定
- 绝缘电阻常数不小于1500MΩ.km
- 成品电缆经交流3.0kV/5min电压试验不击穿

Main technical index

- Conductor d.c. resistance at 20 °C complies with stipulations of GB/T3956.
- Insulation resistance constant should be not less than 1500MΩ.km.
- Cable withstand ac 3.0kV for 5 minutes without puncture.

基本电缆规格和结构参数 Cable specification and structural parameter

线芯 × 标称截面 Number of cores × nominal cross section area (mm ²)	电缆参考外径(mm) Cable reference diameter				电缆参考重量(kg/km) Cable reference weight			
	KEE	KEEP	KEE23	KEE33	KEE	KEEP	KEE23	KEE33
2 × 0.75	7.4	7.7	-	-	66	84	-	-
2 × 1.0	7.6	7.9	-	-	73	92	-	-
2 × 1.5	8.6	8.9	-	-	94	116	-	-
2 × 2.5	9.8	10.1	-	-	125	151	-	-
2 × 4	10.9	11.1	-	-	164	193	-	-
2 × 6	11.8	12.1	-	-	212	244	-	-
3 × 0.75	7.8	8.1	-	-	81	100	-	-
3 × 1.0	8.0	8.3	-	-	91	111	-	-
3 × 1.5	9.0	9.3	-	-	118	141	-	-
3 × 2.5	10.3	10.6	-	-	161	189	-	-
3 × 4	11.4	11.7	-	-	217	248	-	-

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线芯 × 标称截面 Number of cores × nominal cross section area (mm ²)	电缆参考外径(mm) Cable reference diameter				电缆参考重量(kg/km) Cable reference weight			
	KEE	KEEP	KEE23	KEE33	KEE	KEEP	KEE23	KEE33
3 × 6	12.5	13.4	-	-	285	338	-	-
4 × 0.75	8.3	8.6	-	-	96	117	-	-
4 × 1.0	8.6	8.9	-	-	109	131	-	-
4 × 1.5	9.8	10.1	12.0	-	144	170	239	-
4 × 2.5	11.2	11.5	13.4	-	201	231	309	-
4 × 4	12.4	13.3	14.8	18.1	273	325	393	688
4 × 6	14.2	14.7	15.9	19.3	381	436	493	805
5 × 0.75	8.9	9.2	-	-	112	135	-	-
5 × 1.0	9.2	9.5	-	-	128	152	-	-
5 × 1.5	10.6	10.9	12.8	-	171	200	274	-
5 × 2.5	12.2	13.1	14.4	-	240	292	358	-
5 × 4	14.1	14.6	15.7	19.2	348	403	459	771
5 × 6	15.5	16.0	17.1	21.0	461	522	584	940
7 × 0.75	9.6	9.9	11.8	-	140	165	233	-
7 × 1.0	9.9	10.2	12.1	-	162	188	258	-
7 × 1.5	11.4	11.7	13.6	-	219	250	329	598
7 × 2.5	13.8	14.3	15.4	18.9	332	385	440	743
7 × 4	15.3	15.8	16.9	20.8	456	516	577	934
7 × 6	16.8	17.3	18.4	23.0	610	677	743	1245
8 × 0.75	10.3	10.6	12.5	-	157	184	256	-
8 × 1.0	10.6	10.9	12.8	-	182	210	284	-
8 × 1.5	12.2	13.1	14.4	17.9	246	298	364	650
8 × 2.5	14.8	15.3	16.4	20.3	373	431	489	838
8 × 4	16.5	17.0	18.5	22.7	515	580	662	1148
8 × 6	18.1	19.0	20.1	24.3	690	780	852	1382
10 × 0.75	11.8	12.1	14.0	-	190	223	304	-
10 × 1.0	12.2	13.1	14.4	-	222	273	340	-
10 × 1.5	14.8	15.3	16.4	20.3	323	380	439	788
10 × 2.5	17.2	17.7	19.2	23.4	458	527	612	1113
10 × 4	19.2	20.1	21.2	25.4	635	731	806	1367
10 × 6	21.6	22.1	23.2	27.4	873	961	1043	1647
12 × 0.75	12.2	13.1	14.4	-	217	268	334	-
12 × 1.0	12.6	13.5	14.8	-	254	307	375	-
12 × 1.5	15.2	15.7	16.8	20.7	368	428	488	836
12 × 2.5	17.7	18.2	19.7	23.9	528	599	686	1202
12 × 4	20.2	20.7	21.8	26.0	756	836	914	1489
12 × 6	22.3	22.8	23.9	28.1	1018	1108	1194	1811
14 × 0.75	12.7	13.6	14.9	-	244	297	366	-
14 × 1.0	13.8	14.3	15.4	-	306	359	414	-
14 × 1.5	16.0	16.5	17.6	21.5	417	481	544	910
14 × 2.5	18.6	19.5	20.6	24.8	601	694	767	1296

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线芯 × 标称截面 Number of cores × nominal cross section area (mm ²)	电缆参考外径(mm) Cable reference diameter				电缆参考重量(kg/km) Cable reference weight			
	KEE	KEEP	KEE23	KEE33	KEE	KEEP	KEE23	KEE33
14 × 4	21.2	21.7	22.8	27.0	862	948	1029	1617
14 × 6	23.4	23.9	25.0	30.0	1166	1261	1351	2059
16 × 0.75	13.9	14.4	15.5	—	290	344	399	—
16 × 1.0	14.4	14.9	16.0	—	340	396	454	—
16 × 1.5	16.8	17.3	18.4	23.0	467	533	599	1102
16 × 2.5	20.0	20.5	21.6	25.8	693	773	850	1409
19 × 0.75	14.6	15.1	16.2	19.7	331	388	446	766
19 × 1.0	15.1	15.6	16.7	20.6	390	449	509	856
19 × 1.5	17.6	18.1	19.6	23.8	537	607	694	1210
19 × 2.5	21.0	21.5	22.6	26.8	801	885	966	1555
24 × 0.75	16.8	17.3	18.4	23.0	408	474	540	1043
24 × 1.0	17.4	17.9	19.4	23.6	482	551	637	1137
24 × 1.5	20.8	21.3	22.4	26.6	685	769	849	1438
24 × 2.5	24.4	25.1	26.0	31.4	996	1126	1189	1971
27 × 0.75	17.2	17.7	19.2	23.4	446	514	600	1100
27 × 1.0	17.8	18.3	19.8	24.0	529	600	688	1203
27 × 1.5	21.2	21.7	22.8	27.0	753	838	919	1508
27 × 2.5	24.9	25.6	26.5	31.9	1099	1231	1296	2095
30 × 0.75	17.7	18.2	19.7	23.9	485	556	643	1159
30 × 1.0	18.4	18.9	20.4	24.6	577	651	742	1271
30 × 1.5	22.0	22.5	23.6	27.8	823	912	997	1615
30 × 2.5	25.8	26.5	27.4	32.8	1206	1343	1410	2236
37 × 0.75	19.0	19.9	21.0	25.2	578	673	748	1288
37 × 1.0	20.1	20.6	21.7	25.9	708	789	866	1425
37 × 1.5	23.6	24.1	25.2	29.6	987	1083	1173	1853
37 × 2.5	27.8	29.1	30.0	35.6	1453	1655	1729	2769
44 × 0.75	21.6	22.1	23.2	27.4	698	785	868	1466
44 × 1.0	22.4	22.9	24.0	28.2	831	922	1008	1625
44 × 1.5	26.4	27.1	28.6	33.4	1161	1302	1422	2213
44 × 2.5	32.0	32.5	33.8	39.2	1785	1942	2054	3194
48 × 0.75	22.0	22.5	23.6	27.8	748	837	921	1535
48 × 1.0	22.8	23.3	24.4	28.6	893	986	1073	1706
48 × 1.5	26.8	27.5	29.0	34.6	1249	1393	1515	2543
48 × 2.5	32.5	33.0	34.3	40.1	1922	2082	2195	3396
52 × 0.75	22.5	23.0	24.1	28.3	799	890	977	1605
52 × 1.0	23.4	23.9	25.0	29.4	957	1052	1142	1805
52 × 1.5	27.6	28.3	29.8	35.4	1341	1489	1615	2655
52 × 2.5	33.4	33.9	35.2	41.0	2063	2228	2344	3569
61 × 0.75	23.8	24.3	25.4	29.8	916	1013	1104	1773
61 × 1.0	24.7	25.4	26.3	31.7	1100	1231	1295	2077
61 × 1.5	30.0	30.5	31.4	37.6	1614	1760	1836	2994
61 × 2.5	35.8	36.5	38.4	43.0	2413	2633	3060	3978