

0.6/1kV聚烯烃绝缘电力电缆 0.6/1kV polyolefin insulated power cable

产品用途

本产品适用于交流额定电压0.6/1kV的线路中，供输、配电使用。阻燃电力电缆适用于要求阻燃的场合。耐火电力电缆适用于高层建筑、大型商场等人口密集地区，需要防火救生的场合。

产品执行标准

GB/T12706.1-2008、

使用特性

- 1、电缆导体长期允许工作温度不超过70℃；
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160℃；
- 2、敷设电缆时的环境温度应不低于0℃，低于0℃时应先加热。最小弯曲半径不小于电缆外径的15倍。
- 3、20℃时导体直流电阻符合GB/T3956的规定。
- 4、工频耐压试验：3.5kV/5min不击穿
- 5、燃烧特性：
阻燃电缆应能经受GB/T 18380.33（IEC 60332-3）规定的成束燃烧试验。
低烟无卤阻燃电缆能经受GB/T 18380.33（IEC 60332-3）规定的成束燃烧试验，且燃烧时烟浓度符合GB/T17651（IEC61034）的规定、燃烧析出气体中HCL含量应≤100mg/g，并符合IEC60571-1的要求。
耐火电缆应能经受GB/T 12666.6（IEC 60331）规定的耐火特性试验。

基本型号及名称 Type and description

型号Type		名称Description
铜芯Cu	铝芯Al	
ZA(B,C)--EE	ZA(B,C)--ELE	聚烯烃绝缘及护套低烟无卤阻燃电力电缆 Polyolefin insulated polyolefin sheathed low smoke halogen free flame retardant power cable

Application

This product applies for power transmission and distribution in electrical circuit of rated voltage up to and including A.C. 0.6/1kV. Flame retardant power cable is suitable for occasions of flame retardant requirement. Fire resistant power cable is suitable for high-rise buildings, large shopping malls and other densely populated areas concerning to fire security and its lifesaving.

Executive standard

GB/T12706.1-2008、

Service property

1. The rated voltage U_0/U of the cable should be 0.6/1kV.
1. Maximum long-term allowed operating temperature of cable conductor should be 70℃;
When short circuit (lasting no longer than 5 seconds), maximum operating temperature of cable conductor should be 160℃.
2. Cable laying temperature should be not less than 0℃, preheated when lower than 0℃. Allowed bending radius should be not less than 15 times outer diameter of the cable.
3. Conductor d.c. resistance at 20℃ complies with stipulations of GB/T3956
4. Power frequency withstand test: withstand 3.5kV for 5 minutes without puncture.
5. Cable burning characteristics:
Flame retardant cable could withstand buched cable burning test stipulated in GB/T 18380.33 (IEC 60332-3). Low smoke zero halogen flame retardant cable could withstand the buched cable burning test stipulated in GB/T 18380.33 (IEC 60332-3), and smoke density when burning complies with GB/T17651(IEC61034), HCL content of gas separated out infiring should be no more than 100mg/g and complies with IEC60571-1.
Fire resistant cable could withstand the fire resistant test stipulated in GB/T 12666.6 (IEC 60331).



代号名称和含义 Code and meaning

项目 Item	代号 Code	说明 Description
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)
	N	耐火 Fire resistant
	DDZ	低烟低卤阻燃 Low smoke low halogen flame retardant
导体 Conductor	—	第1种或第2种铜导体 Class 1 and 2 copper conductor
	R	铜导体 Copper conductor
	L	铝导体 Aluminum conductor
绝缘 Insulation	E	聚乙烯 Polyolefin
	E	聚氯乙烯 Polyolefin

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

芯数×标称截面 Number of cores nominal cross section area (mm ²)	电缆参考外径 Cable reference diameter (mm)		电缆参考重量 Cable reference weight (kg/km)		芯数×标称截面 Number of cores nominal cross section area (mm ²)	电缆参考外径 Cable reference diameter (mm)		电缆参考重量 Cable reference weight (kg/km)	
	EE	EE22	EE	EE22		EE	EE22	EE	EE22
1×1.5	5.8	8.8	53	127	2×25	21.0	22.6	776	955
1×2.5	6.2	9.2	66	144	2×35	23.0	24.6	986	1183
1×4	7.1	10.1	91	179	2×50	20.4	22.0	1186	1360
1×6	7.6	10.6	115	208	2×70	22.8	24.4	1596	1790
1×10	8.6	11.6	159	265	2×95	26.4	29.2	2144	2656
1×16	9.6	12.6	223	340	2×120	29.0	31.8	2843	3205
1×25	11.2	14.2	325	460	2×150	32.2	35.9	3286	3978
1×35	12.2	15.2	424	570	2×185	35.4	38.9	4052	4791
1×50	13.9	16.9	579	744	3×1.5	10.7	12.3	160	246
1×70	15.8	18.8	796	964	3×2.5	11.5	13.1	199	292
1×95	17.8	20.8	1041	1241	3×4	13.5	15.1	286	397
1×120	19.4	22.0	1287	1493	3×6	14.6	16.2	363	484
1×150	21.4	24.0	1591	1818	3×10	16.7	18.3	509	649
1×185	23.6	26.0	1969	2206	3×16	18.9	20.5	730	889
1×240	26.6	29.0	2529	2795	3×25	22.3	23.9	1038	1228
1×300	29.4	32.3	3109	3430	3×35	24.7	26.1	1366	1570
2×1.5	10.2	11.8	131	216	3×50	24.4	26.0	1234	1348
2×2.5	11.0	12.6	162	250	3×70	27.6	29.0	2367	2596
2×4	12.8	14.4	228	333	3×95	31.4	34.9	3150	3812
2×6	13.8	15.4	285	399	3×120	34.4	37.9	3887	4611
2×10	15.8	17.4	387	519	3×150	38.4	42.1	4641	5666
2×16	17.8	19.4	542	692	3×185	42.6	46.1	5977	6888

续上表Continued

芯数×标称截面 Number of cores nominal cross section area (mm ²)	电缆参考外径 Cable reference diameter (mm)		电缆参考重量 Cable reference weight (kg/km)		芯数×标称截面 Number of cores nominal cross section area (mm ²)	电缆参考外径 Cable reference diameter (mm)		电缆参考重量 Cable reference weight (kg/km)	
	EE	EE22	EE	EE22		EE	EE22	EE	EE22
3×240	49.8	53.3	7731	8770	3×50+1×25	26.9	29.2	2027	2249
3×300	56.3	59.8	8644	10717	3×70+1×35	30.2	32.5	2748	3056
4×1.5	11.5	13.1	180	274	3×95+1×50	34.6	38.1	3696	4423
4×2.5	12.4	14.0	245	347	3×120+1×70	37.6	41.1	4627	5416
4×4	14.6	16.2	356	477	3×150+1×70	41.4	44.9	5580	6448
4×6	15.8	17.4	451	583	3×185+1×95	46.0	49.5	6369	7300
4×10	18.2	19.8	643	797	3×240+1×120	52.0	55.5	8940	10223
4×16	20.7	22.3	913	1089	3×300+1×160	58.8	62.3	11054	12278
4×25	24.7	26.1	1323	1527	3×4×2×2.5	14.8	16.4	365	489
4×35	27.1	28.7	1750	1999	3×6×2×4	16.6	18.2	492	631
4×50	29.0	29.6	2287	2546	3×10×2×6	19.8	20.4	676	837
4×70	31.4	34.9	3117	3779	3×16×2×10	21.5	23.1	961	1144
4×95	36.8	40.5	4165	4958	3×25×2×16	25.4	26.8	1417	1628
4×120	39.8	43.3	5153	5986	3×35×2×16	27.0	28.6	1743	1981
4×150	44.2	47.7	6414	7339	3×50×2×16	31.2	33.5	2464	2797
4×185	48.8	52.3	7915	8933	3×70×2×16	36.2	39.7	3332	4096
5×1.5	12.3	13.9	214	315	3×95+2×50	41.8	45.5	4573	5475
5×2.5	13.4	15.0	294	404	3×120+2×70	45.9	49.4	5761	6725
5×4	15.8	17.4	415	547	3×150+2×70	49.7	53.2	6786	7931
5×6	17.2	18.8	544	689	3×185+2×95	55.6	59.1	8571	9725
5×10	19.9	21.5	774	943	3×240+2×120	62.1	65.6	10850	12190
5×16	22.6	24.2	1125	1319	3×300+2×150	69.0	72.5	13428	14967
5×25	27.1	28.5	1636	1862	4×4×1×2.5	15.9	16.9	390	518
5×35	30.0	32.3	2156	2477	4×6×1×4	16.9	18.5	508	650
5×50	34.2	37.7	3039	3761	4×10×1×6	19.3	20.9	725	888
5×70	39.8	43.3	4123	4962	4×16×1×10	22.0	23.6	1028	1216
5×95	46.1	49.6	5586	6554	4×25×1×16	26.2	27.6	1829	1747
5×120	49.5	53.0	6850	7886	4×35×1×16	28.4	30.0	1919	2170
3×2.5+1×1.5	12.2	13.8	243	343	4×50×1×25	32.7	35.0	2760	3094
3×4×1×2.5	14.1	15.7	329	446	4×70×1×35	37.8	41.3	3761	4560
3×6×1×4	15.5	17.1	436	566	4×95×1×50	43.9	47.4	5263	5967
3×10×1×6	17.6	19.2	602	751	4×120×1×70	47.8	51.3	6319	7321
3×16×1×10	20.1	21.7	844	1014	4×150×1×70	52.4	55.9	7668	8765
3×25×1×16	23.6	25.2	1228	1431	4×185×1×95	58.9	61.8	8564	10783
3×35×1×16	25.6	27.0	1538	1750					



交货长度 Delivery length

按合同要求长度交货，长度计量误差不超过 $\pm 0.5\%$ 。

Delivery length according to contractual requirements, the length measurement error is $\pm 0.5\%$.