



金环宇电缆



广东名牌产品



广东著名商标

产 品 说 明 书



深圳市金环宇电线电缆有限公司



国家免检



广东省名牌产品



广东省著名商标

与时代同发展

深圳市金环宇电线电缆有限公司，是一家生产各种型号电力电缆、电线的专业厂家。自建厂十五年来，产品严格按照国家标准生产，在市场赢得很高的信誉和市场份额。

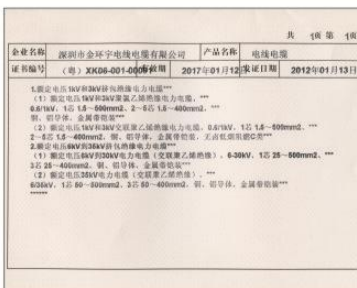
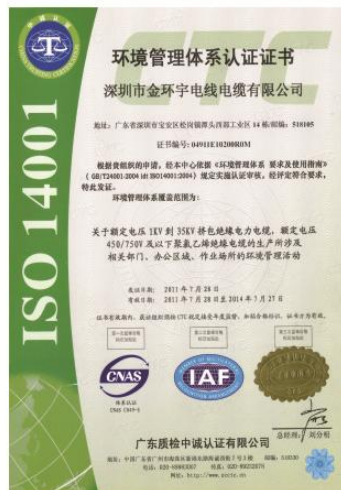
公司内部管理科学、严密，质量管理严格按照ISO9001质量管理体系管理和运作。不合格产品一律不出厂，把用户利益放在第一位。公司以“以质量求生存，以质量求发展，以质量求信誉”为宗旨，以“科学管理，优质服务，顾客满意，持续改进”的工作方针为指导思想，专业专心打造电线电缆一流品牌。近年来公司得到了长足的发展和壮大，现拥有五万多平方米的生产基地和目前最先进的生产设备和检验、检测设备，雄厚的技术力量和检验力量，现已步入全国电线电缆行业的前列，其产品在各大工地和市场均受好评，并在各监理处和检验站抽检，合格率均达到100%。

金环宇电线电缆，质量上乘，信誉至上，是广大用户的首选产品。

顽强的生产力和检验实力是品质的保证。



企业资质证书



原件复制



雄厚的实力



绝缘工序

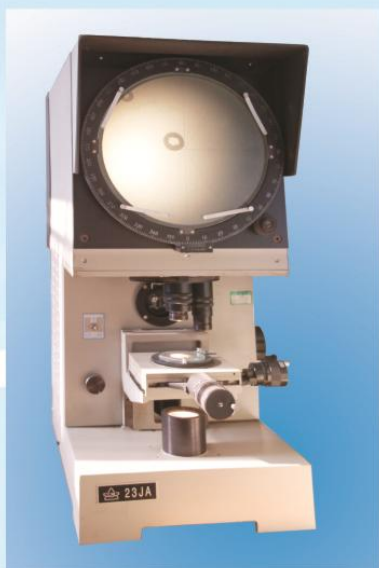
Insulation Process

铸造不朽的精品

金环宇电线电缆

金环宇电线电缆

先进的检测设备、仪器



投影仪



拉力试验机



局部放电测试仪



恒温水箱



燃烧试验机



电压试验机



导体电阻测试仪



高压试验机



削片机



火花试验机



热老化箱



JINHUANYU

金环宇电线电缆

卓越

实力

专业





国家免检



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广东省著名商标

简介目录

● 额定电压0.6/1kV交联聚乙烯绝缘电力电缆	1-7
● 额定电压35kV及以下交联聚乙烯绝缘电力电缆	8-16
● 额定电压110kV交联聚乙烯绝缘电力电缆	17-21
● 额定电压0.6/1kV聚氯乙烯绝缘聚氯乙烯护套电力电缆	22-28
● 额定电压450/750V及以下聚氯乙烯绝缘（屏蔽）电缆（电线）	29-37
● 额定电压450/750V及以下聚氯乙烯绝缘（屏蔽）聚氯乙烯护套控制电缆	38-47
● 额定电压10kV、35kV架空绝缘电缆	48-53
● 额定电压1kV及以下交联聚乙烯绝缘架空电缆	54-55
● 铝绞线及钢芯铝绞线	56-60
● 额定电压0.6/1kV铜芯塑料绝缘和护套预制分支电力电缆	61-70
● 通用橡套软电缆	71-73
● 电焊机电缆	74
● 通信电缆	75-78
● 有线电视系统物理发泡聚乙烯绝缘同轴电缆	79-82

质量方针

科学管理；
优质服务；
顾客满意；
持续改进！



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

额定电压 0.6/1kV 交联聚乙烯绝缘电力电缆

0.6/1kV XLPE INSULATED PVC SHEATHED POWER CABLE

(含普通型、阻燃型、耐火型、低烟低卤阻燃型、低烟无卤阻燃型)

(Including common cable, flame retardant cable, fire resistance cable, low smoke, low halogen, flame retardant cable and low smoke, halogen free, flame retardant cable)

1 产品特点及用途

Characteristics and Applications of the products

交联聚乙烯绝缘电力电缆具有高机械强度、耐环境应力好、优良的电气性能和耐化学腐蚀等特点，重量轻，结构简单，使用方便。本产品适用于交流额定电压 U_0/U 为 0.6/1kV 及以下的输配电线路上。

阻燃型电缆的主要特点是电缆不易着火或着火时延燃仅局限在一定范围内、适用于电缆敷设密集程度较高的发电站、地铁、隧道、高层建筑、大型工矿企业、油田、煤矿等场所。

耐火型电缆的主要特点是电缆除了能在正常的工作条件下传输电力外，电缆在着火燃烧时仍能保持一定时间的正常运行，适用于核电站、地铁、隧道、高层建筑等与防火安全和消防救生有关的地方。

低烟低卤阻燃型电缆的特点是电缆不仅具备阻燃性能，而且具有较低的发烟性，低氯化氢释出量，适用于那些对电缆燃烧的烟浓度及氯化氢气体释出量有一定要求的场合。

低烟无卤阻燃型电缆的特点是电缆不仅具备阻燃性能，而且具有低发烟性和无害性（毒性和腐蚀性较小），适用于对电缆阻燃，烟密度，毒性指数等有特别要求的场所。如地铁、隧道、核电站等。

XLPE insulated power cable has the advantages of not only high mechanical strength, good ambient stress resistance, good electrical properties and anti-chemical corrosion, but also simple construction, light weight and convenient to use, It applies to electrical power transmission and distribution lines with A.C. rated voltage U_0/U up to and including 0.6/1 kilovolts.

The main features of the flame retardant XLPE power cable is hard to catch on fire or that the continuous burning of cables is very limited when it is on fire, It applies to the places with many cables laid tightly together such as power generated station, subway, tunnel, high-storey building and other places concerning to fire security and its lifesaving.

The main characteristics of low smoke, low halogen, flame retardant power cable is low smoke emission and low release of HCL gas besides the property of flame retardant, It can be used in the places with special demands of the density of smoke emission and the release value of HCL gas if cable is burnt.

The main characteristics of low smoke, halogen-free, flame retardant power cable is very low smoke emission and harmless (low toxic, low corrosive) besides the property of flame retardant, It can be used in such kinds of places as subway, tunnel, power station with special demands of property of flame retardant, the density of smoke emission and toxic index if cable is burnt.

2 产品标准

Standards of the products

本产品按 GB/T12706-2008 标准生产。

阻燃耐火电缆按 GB/T12706.1-2008、GB/T19666-2005、GA306-2007 生产。

The product according to standard GB/T12706-2008.

Flame-retardant according to fire-resistant cable GB/T12706.1-2008, GB/T19666-2005, GA306-2007 production



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3 产品型号

普通型电缆型号

YJV、YJLV——交联聚乙烯绝缘聚氯乙烯护套电力电缆

YJY、YJLY——交联聚乙烯绝缘聚乙烯护套电力电缆

YJV₂₂、YJLV₂₂——交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆

YJV₂₃、YJLV₂₃——交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆

阻燃型电缆型号

在普通型电缆型号前加 ZR

耐火型电缆型号：在普通型电缆型号前加 NH

低烟无卤阻燃型电缆型号

WD——YJE、WD——YJLE——交联聚乙烯绝缘聚烯烃护套低烟无卤电缆

WD——YJE₂₂、WD——YJLE₂₂——交联聚乙烯绝缘钢带铠装聚烯烃护套低烟无卤电缆

低烟低卤型电缆型号

在普通型电缆型号前加 DD

Type

Type of the common cable:

YJV, YJLV-XLPE insulated PVC sheathed power cable

YJY, YJLY- XLPE insulated PE sheathed power cable

YJV₂₂, YJLY₂₂- XLPE, insulated, steel tape armored, PVC sheathed power cable

YJV₂₃, YJLV₂₃-XLPE, insulated, steel tape armored, PE sheathed power cable

Type of the fire-resistance cable:

plus ZR before the type of common power cable

Type of the fire resistance cable:

plus NH(A) NH(B) before the type of common power cable

Type of the low smoke, halogen-free, flame retardant cable:

WD-YJE, WD-YJLE-XLPE insulated, polyolefins

sheathed, halogen-free cable

WD-YJE₂₂, WD-YJLE₂₂-XLPE insulated, steel sheath-

ed cables low smoke zero halogen polyolefin jacket

Type of the low smoke, low halogen. cable:

plus DD before the type of common power cable

4 产品使用特性

Operating characteristics

- (1) 额定电压 U_0/U 为 0.6/1kV。
- (2) 电缆导体的最高温度为 90℃。
- (3) 短路时 (最长持续时间不超过 5S) 电缆导体的最高温度不超过 250℃。
- (4) 电缆敷设时的环境温度应不低于 0℃，其最小弯曲半径如下：
单芯电缆—无铠装 20D，有铠装—15D
多芯电缆—无铠装 15D，有铠装—12D
(D、为电缆外径 mm)

- (1) Rated voltage U_0/U is 0.6/1 kilovolts.
- (2) Maximum rated temperature of cable conductor is 90℃
- (3) Maximum conductor temperature is lower than 250℃ when cable is shorted for less than 5 seconds.
- (4) Ambient temperature is not lower than 0℃ and its minimum bending radius is as follows when cable is installed:

Single-core cables-non-sheathed 20D, there are sheathed-15D

Multi-core cables-non-sheathed 15D, there are sheathed-12D

(D, for cable diameter mm)



5 主要技术参数

Key Technical Parameter

电缆载流量计算条件

环境温度 25℃

电缆导体工作温度 90℃

电缆埋地敷设时，土壤热阻系数 $g = 1.0^{\circ}\text{Cm/w}$ ，但尚未考虑电缆长期运行时由于水分迁移而导致土壤热阻系数升高的现象。

电缆埋地敷设时，电缆与地面距离为 1000mm。

多根电缆敷设时，电缆与地面距离 $S=3D$

Calculation condition of the ampacity

ambient temperature is 25℃

conductor working temperature is 90℃

soil heat resulted from water migration when it operates continuously.

gap between of cable and surface of ground is 1000 millimeter when it is laid in goround.

for mult-core cable, gap of cable is 3 times O.D.

YJV、YJLV

(含阻燃、耐火、低烟无卤型)

0.6/1kV

标称截面 Nominal cross section (mm ²)	电缆参 考外径 Reference overall diameter of cable (mm)	允许载流量 Permissible Ampacity (A)				电缆参考重量 Reference Weight of cable (kg/km)	
		空气中敷设 In air		埋地敷设 In ground		(kg/km)	
		Cu	Al	Cu	Al		
1.5	5.79	30	--	43	--	45	--
2.5	6.19	39	31	57	45	57	42
4	6.66	52	41	74	58	75	50
6	7.17	66	52	93	74	97	60
10	8.21	91	70	127	98	142	80
16	9.21	120	93	167	129	205	105
25	10.83	159	125	216	168	304	149
35	11.83	195	151	261	202	403	186
50	13.34	237	184	311	242	555	237
70	15.25	301	232	388	299	756	316
95	17.06	362	281	461	358	1005	414
120	18.67	419	325	527	409	1250	504
150	20.90	481	372	592	458	1561	621
185	22.92	556	431	671	520	1910	760
240	25.54	662	513	781	605	2453	969
300	28.16	774	559	886	680	3044	1191
400	31.99	917	711	1019	791	4024	1508
500	35.42	1075	835	1170	909	5006	1873
3×2.5	11.0	28	22	37	28	171	124
3×4	12.0	37	29	48	37	225	150
3×6	13.1	47	36	61	47	296	183
3×10	15.3	64	49	82	62	440	251
3×16	17.5	85	65	107	81	638	341
3×25	21.0	115	87	138	105	954	481
3×35	23.1	140	106	165	127	1266	603
3×50	23.4	168	126	198	151	1614	690
3×70	27.4	213	160	242	184	2246	951
3×95	30.6	263	196	290	221	2975	1215
3×120	34.0	307	232	330	253	3776	1515
3×150	38.6	357	268	371	284	4682	1888
3×185	43.3	415	314	418	322	5802	2354
3×240	48.1	498	375	485	373	7437	2963
3×300	52.2	575	429	548	422	9313	3639



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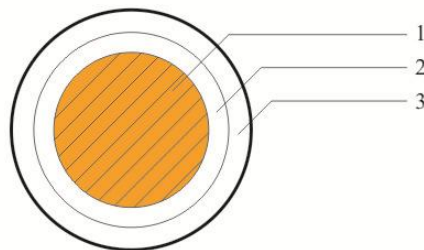
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6 电缆结构

Cable structure

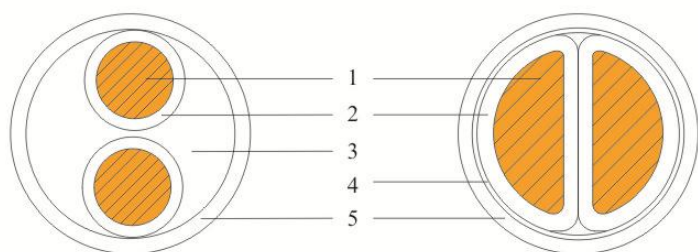
一芯结构

1、铜(铝)芯导体, 2、交联聚乙烯绝缘, 3、聚氯乙烯护套。



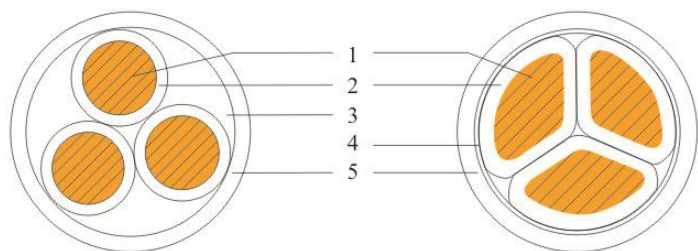
二芯结构

1、铜(铝)芯导体, 2、交联聚乙烯绝缘, 3、填充, 4、包带, 5、聚氯乙烯护套。



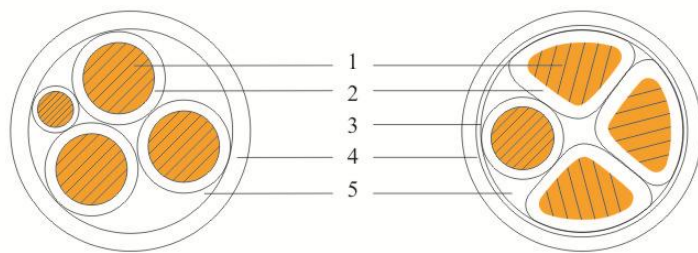
三芯结构

1、铜(铝)芯导体, 2、交联聚乙烯绝缘, 3、填充, 4、包带, 5、聚氯乙烯护套。



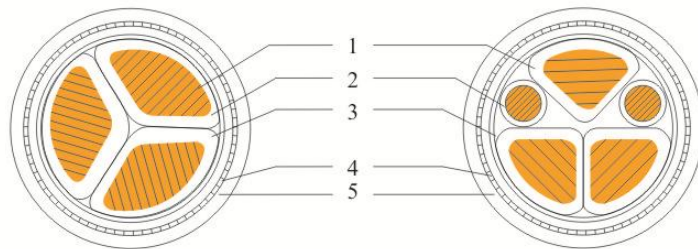
环保型电力电缆

1、铜(铝)芯导体, 2、交联聚乙烯绝缘, 3、包带, 4、低烟型聚烯烃护套, 5、填充。



环保型电缆

1、铜(铝)芯导体, 2、交联聚乙烯绝缘, 3、包带, 4、钢带, 5、聚乙烯护套。





深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

YJV、YJLV

(含阻燃、耐火、低烟无卤型)

0.6/1kV

标称截面 Nominal cross section	电缆参 考外径 Reference overall diameter fo cable	允许载流量 Permissible A mpacity (A)				电缆参考重量 Reference weight of cable	
		空气中敷设 In air		埋地敷设 In ground		(kg/km)	
		Cu	Al	Cu	Al		
(mm ²)	(mm)						
4×2.5	11.8	29	22	38	29	211	148
4×4	13.0	38	29	50	38	283	182
4×6	14.2	49	37	62	47	376	225
4×10	16.7	67	50	84	63	567	314
4×16	19.1	88	66	109	82	829	424
4×25	23.2	119	90	142	107	1249	618
4×35	25.5	146	110	170	129	1689	804
4×50	25.2	173	128	201	151	2146	916
4×70	28.9	218	164	245	185	2944	1219
4×95	32.5	271	201	294	223	3903	1559
4×120	35.9	315	234	333	253	4967	1956
4×150	40.2	366	272	374	285	6133	2413
4×185	44.4	422	315	421	321	7600	3008
4×240	49.4	486	377	489	481	9743	3784
4×300	56.0	569	440	555	425	12271	4716
4×400	67.9	686	-	628	-	16248	-
3×2.5+1×1.5	11.6	28	22	36	29	212	156
3×4+1×2.5	12.7	37	29	47	37	277	187
3×6+1×4	13.9	47	37	60	47	363	225
3×10+1×6	16.1	64	49	81		527	300
3×16+1×10	18.6	85	65	106	82	766	400
3×25+1×16	22.2	113	88	137	106	1140	566
3×35+1×16	24.6	139	108	164	127	1475	712
3×50+1×25	27.7	173	134	198	154	1951	866
3×70+1×35	31.9	222	170	246	198	2662	1142
3×95+1×50	36.2	271	210	293	227	3578	1496
3×120+1×70	39.9	318	247	334	259	4567	1856
3×150+1×70	45.0	370	286	375	290	5514	2268
3×185+1×95	49.4	427	331	422	328	6850	2788
3×240+1×120	54.9	507	393	492	381	8741	3492
3×300+1×150	62.9	599	463	560	433	11052	4409

标称截面 Nominal cross section (mm ²)	电缆参 考外径 Reference overall diameter of cable (mm)	允许载流量 Permissible Ampacity (A)		电缆参考重量 Reference weight of cable (kg/km)
		空气中敷设 In air	埋地敷设 In ground	
		Cu	Cu	Cu
5×4	14.7	38	48	345
5×6	15.8	48	60	451
5×10	18.6	66	82	688
5×16	21.3	89	107	1011
5×25	25.7	118	138	1553
5×35	28.4	147	167	2071
5×50	32.9	180	200	2892
5×70	38.2	231	246	3974
5×95	43.4	282	290	5326
5×120	47.9	330	331	6657
5×150	53.8	384	372	8310
5×185	59.6	442	422	10228
5×240	66.5	530	492	13103
5×300	73.4	612	559	16239
4×4+1×2.5	14.2	38	48	320
4×6+1×4	15.6	48	60	427
4×10+1×6	18.1	66	81	636
4×16+1×10	20.8	88	107	940
4×25+1×16	24.9	118	137	1441
4×35+1×16	27.1	144	165	1853
4×50+1×25	31.6	177	196	2616
4×70+1×35	36.5	227	244	3578
4×95+1×50	45.1	277	288	4843
4×120+1×70	46.3	325	329	6110
4×150+1×70	51.2	375	369	7421
4×185+1×95	56.8	433	418	9191
4×240+1×120	63.2	518	488	11763
4×300+1×150	70.0	625	555	14595
3×4+2×2.5	14.0	38	48	302
3×6+2×4	15.3	48	60	404
3×10+2×6	17.6	65	81	592
3×16+2×10	20.3	87	106	879
3×25+2×16	24.0	116	136	1338
3×35+2×16	25.9	141	164	1650
3×50+2×25	30.4	174	195	2355
3×70+2×35	34.8	224	242	3213
3×95+2×50	39.7	272	286	4353
3×120+2×70	44.6	320	327	5566
3×150+2×70	48.6	367	366	6600
3×185+2×95	54.0	424	415	8264
3×240+2×120	60.2	508	484	10501
3×300+2×150	66.6	592	550	13044



国家免检



广东省名牌产品



广东省著名商标

YJV₂₂、YJLV₂₂

(含阻燃、耐火、低烟无卤型)

0.6/1kV

标称截面 Nominal cross section (mm ²)	电缆参 考外径 Reference overall diameter fo cable (mm)	允许载流量 Permissible Ampacity (A)				电缆参考重量 Reference Weight of cable (kg/km)	
		空气中敷设 In air		埋地敷设 In ground			
		Cu	Al	Cu	Al	Cu	Al
25	14.7	162	126	202	157	467	311
35	15.7	197	153	244	189	574	355
50	17.2	237	184	292	226	746	433
70	19.1	299	230	365	281	973	534
95	20.7	361	280	437	339	1235	639
120	22.3	417	324	500	388	1501	749
150	24.3	483	374	566	438	1828	888
185	26.4	556	431	643	499	2202	1043
240	28.8	666	516	752	583	2763	1259
300	31.4	768	594	856	662	3383	1503
400	36.4	920	713	992	769	4737	2230
500	39.8	1084	843	1140	886	5790	2657
3×1.5	13.3	21	-	26	-	268	-
3×2.5	14.2	28	22	34	27	318	270
3×4	15.2	37	29	45	25	379	304
3×6	16.3	46	36	57	45	463	350
3×10	18.6	63	48	77	59	628	439
3×16	20.7	83	65	100	78	851	548
3×25	24.2	112	87	131	102	1209	735
3×35	26.4	137	106	158	123	1546	884
3×50	26.8	163	126	187	145	1908	985
3×70	32.0	211	162	233	179	2874	1579
3×95	35.4	255	197	277	215	3685	1925
3×120	38.8	298	232	317	246	4560	2300
3×150	43.4	348	269	358	277	5570	2777
3×185	48.5	403	313	403	313	6837	3389
3×240	53.5	480	372	468	363	8606	4132
3×300	57.6	549	425	531	411	10577	4903
4×1.5	14.1	22	-	27	-	300	-
4×2.5	15.1	29	23	35	28	357	295
4×4	16.2	37	29	46	36	443	342
4×6	17.4	47	37	58	46	550	399
4×10	19.9	64	50	78	60	771	518
4×16	22.3	86	66	102	79	1061	657
4×25	26.3	116	90	133	104	1528	896
4×35	28.7	143	111	161	125	1996	1111
4×50	29.8	169	131	188	146	2725	1495
4×70	33.5	217	166	237	182	3602	1877
4×95	37.3	261	202	279	216	4654	2311
4×120	40.7	304	236	318	247	5795	2783
4×150	45.4	352	272	358	277	7095	3375
4×185	49.6	404	313	402	312	8660	4047
4×240	55.0	477	370	467	362	10963	5004
4×300	61.6	562	435	535	414	13650	6095
4×400	71.7	671	520	611	474	17597	

注：单芯电缆铠装应采用非磁性材料或采用减少磁耗结构

Note: For single—core armored cable, you should adopt non—magnetic material as armor layer or the construction of cable which can reduce magnet loss.



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

YJV₂₂、YJLV₂₂

(含阻燃、耐火、低烟无卤型)

0.6/1kV

标称截面 Nominal cross section (mm ²)	电缆参考外径 Reference overall diameter of cable (mm)	允许载流量 Permissible Ampacity (A)				电缆参考重量 Reference Weight of cable (kg/km)	
		空气中敷设 In air		埋地敷设 In ground			
		Cu	Al	Cu	Al	Cu	Al
3×2.5+1×1.5	14.8	28	22	35	28	357	300
3×4+1×2.5	15.9	37	29	45	36	434	343
3×6+1×4	17.1	47	37	57	45	534	396
3×10+1×6	19.3	64	49	78	60	724	498
3×16+1×10	21.8	85	66	102	79	992	626
3×25+1×16	25.4	114	88	132	103	1409	834
3×35+1×16	27.8	139	108	158	123	1772	1008
3×50+1×25	31.2	172	133	192	149	2299	1213
3×70+1×35	36.7	233	171	239	184	3406	1884
3×95+1×50	40.8	273	212	286	221	4398	2315
3×120+1×70	44.7	319	247	325	252	5487	2776
3×150+1×70	50.0	369	285	365	283	6570	3324
3×185+1×95	54.4	421	326	412	320	8003	3941
3×240+1×120	60.1	503	389	480	372	10045	4796
3×300+1×150	68.3	590	456	546	432	12570	5927

标称截面 Nominal cross section (mm ²)	电缆参考外径 Reference overall diameter of cable (mm)	允许载流量 Permissible Ampacity (A)		电缆参考重量 Reference Weight of cable (kg/km)
		空气中敷设 In air	埋地敷设 In ground	
		Cu	Cu	
5×4	17.6	38	46	520
5×6	19.0	48	58	645
5×10	21.8	66	79	920
5×16	24.5	90	103	1276
5×25	28.9	119	134	1871
5×35	33.0	147	162	2742
5×50	37.5	180	193	3664
5×70	42.8	231	240	4866
5×95	48.2	282	283	6354
5×120	53.1	330	322	7836
5×150	59.3	384	363	9670
5×180	65.0	442	412	11714
5×240	72.3	530	480	14817
5×300	79.4	612	546	18161
4×4+1×2.5	17.4	38	46	499
4×6+1×4	18.8	48	58	622
4×10+1×6	21.3	66	79	862
4×16+1×10	24.0	88	103	1199
4×25+1×16	28.1	118	133	1748
4×35+1×16	31.9	144	160	2509
4×50+1×25	36.2	177	191	3359
4×70+1×35	41.1	227	238	4429
4×95+1×50	46.4	277	281	5829
4×120+1×70	51.3	325	320	7250
4×150+1×70	56.3	375	361	8676
4×185+1×95	62.2	433	408	10606
4×240+1×120	69.0	518	475	13393
4×300+1×150	76.0	605	541	16428
3×4+2×2.5	17.2	38	46	477
3×6+2×4	18.5	48	58	595
3×10+2×6	20.8	65	78	811
3×16+2×10	23.5	87	102	1131
3×25+2×16	27.2	116	132	1634
3×35+2×16	30.7	141	159	2278
3×50+2×25	35.0	174	190	3069
3×70+2×35	39.4	224	236	4026
3×90+2×50	44.7	272	279	5315
3×120+2×70	49.7	320	318	6665
3×150+2×70	53.8	367	357	7792
3×185+2×95	59.4	424	405	9611
3×240+2×120	66.0	508	471	12053
3×300+2×150	72.6	592	536	14789



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额定电压35kV及以下交联聚乙烯绝缘电力电缆

XLPE INSULATED POWER CABLE WITH RATED VOLTAGE 35kV

(含阻燃型, 低烟无卤阻燃型, 低烟低卤阻燃型)

(Including flame retardant cable, low smoke, halogen-free flame retardant cable, low smoke, low halogen, flame retardant cable)

1 型号及名称

Type and name

YJV——铜芯交联聚乙烯绝缘聚氯乙烯护套电力电缆
YJY——铜芯交联聚乙烯绝缘聚乙烯护套电力电缆
YJLV——铝芯交联聚乙烯绝缘聚氯乙烯护套电力电缆
YJLY——铝芯交联聚乙烯绝缘聚乙烯护套电力电缆
YJV₂₂——铜芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆
YJV₂₃——铜芯交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆

YJV — copper conductor XLPE insulated PVC sheathed power cable
YJY — copper conductor XLPE insulated PE sheathed power cable
YJLV — aluminium conductor XLPE insulated PVC sheathed power cable
YJLY — aluminium conductor XLPE insulated PVC sheathed power cable
YJV₂₂ — copper conductor XLPE insulated, steel tape armored, PVC sheathed power cable
YJV₂₃ — copper conductor XLPE insulated, steel tape armored, PE sheathed power cable

注: 阻燃型的产品在普通交联电力电缆前面加ZA、ZB、ZC、ZD。

Note: for flame retardant cable, ZA、ZB、ZC、ZD.

2 用途

Purpost

本产品适用于额定电压 U_0/U 为3.6/6-26/35kV的供电线路。阻燃电线电缆适用于对阻燃性能有较高要求的场合

It applies to the transmission and distribution lines with rated voltage from 3.6/6 kilovolts to 26/35 kilovolts flame retardant power cable is used in the places with special demands of flame retardant property, where cable is laid tightly.

U_0 —电缆设计用的导体与屏蔽或金属套之间的额定工频电压。

U_0 — rated power frequency voltage between conductor and shield or metallic sheath when, cable is designed.

U —电缆设计用的导体之间的额定工频电压。

U — rated power frequency voltage between conductors when cable is designed

U_m —设备可承受的“最高系统电压”的最大值。

U_m — max, equipment voltage (max, system voltage of the equipment in service)

第一类电缆 用于单相接地故障时间每一次一般不大于1min的系统, 亦可用于最长不超过8h, 每年累计不超过125h的系统。

class 1 applies to the system of the duration of single phase earthing fault normally less than 1 minutes each time or the system of maximum duration less than 8 hours each time but the total duration not more than 125 hour

第二类电缆 用于接地故障时间更长的系统, 对电缆绝缘性能要求较高的场合, 也应采用第二类电缆

class 2 applies to the system of more duration of earthing fault or the system with higher requirement to the property of insulation.

kV

三相系统用电缆的额定电压表
Table of rated voltage for 3 phase cable

U	U_m	U_0	
		第一类电缆 Class 1	第二类电缆 Class 2
1	1.2	0.6	0.6
3	3.6	1.8	3.6
6	7.2	3.6	6
10	12	6	8.7
15	17.5	8.7	12
20	24	12	18
35	42	21	26



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Shenzhen Gold Universal Wire & Cable Co., Ltd.

3 制造依据

产品制造依据是 GB/T12706-2008 《额定电压 1kV (Um=1.2kV)到35kV (Um=40.5kV) 挤包绝缘电力电缆及附件》。

Manufacturing basis

The products are produced in accordance with GB/T12706-2008 《power cables with extruded insulation and their accessories for rated voltages from 1kV (Um=1.2kV) up to 35kV (Um=40.5kV)》.

4 使用特性

- 1、正常运行时电缆导体的最高温度为 90℃
- 2、短路时（最长持续时间不超过 5S）电缆导体的最高温度不超过 250℃。
- 3、电缆敷设时环境温度应不低于 0℃
- 4、电缆的弯曲半径应符合以下规定：
单芯电缆的弯曲半径无铠装不小于电缆外径 20 倍，有铠装不小于电缆外径的 15 倍
三芯电缆的弯曲半径无铠装不小于电缆外径 15 倍有铠装不小于电缆外径的 12 倍

Operational performance

1. maximum rated temperature of conductor is 90℃
2. maximum temperature is 250℃ when cable is shorted for less than 5 seconds.
3. ambient temperature should be not lower than -25℃ when cable is installed
4. Cable bend radius should satisfy the following requirements:
Single-core cable bend radius not less than non-sheathed cable diameter 20 times, There are sheathed cable diameter not less than 15 times
Three-core cable bend radius not less than non-sheathed cable diameter 15 times, There are sheathed cable diameter not less than 12 times

5 主要技术性能(型式试验)

Key Technical Property (for type test)

额定电压 kV Rated voltage, unit: kV	0.6/1	1.8/3	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/30	21/35	26/35
导体直流电阻 Ω/km Conductor D.C. resistance, unit: Ω/km	见下表格 See the following table								
局部放电试验 (1.73 U ₀ 下) PC Partial discharge test at 1.73 times U ₀ , unit: PC	~				10				5
弯曲试验后局部放电试验 (1.73 U ₀ 下) PC Partial discharge test at 1.73 times U ₀ , after bending test, unit: PC	~				10				5
热循环试验后的局部放电试验 (1.73 U ₀ 下) PC Partial discharge test at 1.73 U ₀ after heat cycle test, unit: PC 局部放电试验 (1.73 U ₀ 下) PC Partial discharge test at 1.73 U ₀ unit: PC	~				10				5
15分钟工频耐压试验 kV, 不击穿 15 minutes power frequency voltage with standing test, not break down, unit: kV	3.5	6.5	11	15	22	30	45	53	65
4小时交流电压试验, 不击穿 kV 4 hours A.C. voltage test, not break down, unit: kV	2.4	7.2	14.4	24	34.8	48	72	84	104
冲击电压试验 kV, 不击穿 Pulse voltage test, unit: kV, not break down	~		60	75	95	125	170		200
交联聚乙烯热延伸试验 XLPE hot set test 负荷下15分钟, 20N/cm ² Test condition: 15min., 20N/cm ² 负荷下最大延伸率 % Max. elongation under load 去负荷冷却后最大延伸率 % Max. elongation after cooling, no load					175				15
室温U ₀ 时tg $\delta \times 10^{-4}$ 不大于 Min. tg δ at room temperature and U ₀ 0.5~2U ₀ 之间 Δ tg $\delta \times 10^{-4}$ 不大于 Min. tg δ at 0.5 to 2.0 times U ₀		~			40				20
室温下, 2kV时tg $\delta \times 10^{-4}$ 不大于 Min. tg δ at room temperature and 2 kilovolts 电缆最高额定温度下, 2kV时tg $\delta \times 10^{-4}$ 不大于 Min. tg δ at maximum rated temperature and 2 kilovolts		~			40				80
90±5℃, 在U ₀ 时tg δ 不大于 Min. tg δ at U ₀ and 90±5℃									10×10 ⁻⁴
绝缘和护套机械物理性能 Mechanical and physical property of insulation and sheath	略 Ellipsis								



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20℃时电缆导体最大直流电阻 Maximun D.C. resistance at 20℃

unit: Ω / km

标称截面 Cross-section mm^2	铜芯 Copper	铝芯 Aluminium	标称截面 Cross-section mm^2	铜芯 Copper	铝芯 Aluminium
25	0.727	1.20	185	0.0991	0.164
35	0.524	0.969	240	0.0754	0.125
50	0.387	0.641	300	0.0601	0.100
70	0.268	0.443	400	0.0470	0.0778
95	0.193	0.320	500	0.0366	0.0605
120	0.153	0.253	630	0.0283	0.0469
150	0.124	0.206	800	0.0221	0.0367

6 电缆载流量计算条件

Calculation Condition of Ampacity

环境温度：在空气中敷设 40℃；埋地敷设 25℃。
 电缆导体工作温度 90℃。
 电缆埋地敷设时，土壤热阻系数 $g=1.0^\circ\text{C} \cdot \text{m}/\text{W}$ ，但尚未考虑电缆长期运行时由于水份迁移而导致土壤热阻系数升高现象。
 电缆埋地敷设时，电缆与地面距离为 700mm，多根电缆扁平形敷设，电缆的距离 $S=2D$

ambient temperature is 25℃ (underground), 40℃(air).
 conductor working temperature is 90℃
 soil heat resistance coefficient is $1.0^\circ\text{C} \cdot \text{m}/\text{W}$, but not consider its rise resulted from water migration when it operates continuously.
 gap between of cable and surface of ground is 700 millimeter when it is laid in earth
 for many cable being laid in parallel, gap of cable is 2 times O.D.

7 影响电缆载流量因素

Factor of Affecting Ampacity of Cable

1、多组电缆敷设时对载流量的影响系数
 水平放置直接埋地的影响系数

1. Ampacity coefficient when many group of cable are laid

电缆组数 Numbers of group	2	3	4	5	6	8	10
距离 Gap							
接触 Contacted	0.79	0.69	0.63	0.58	0.55	0.50	0.46
7cm	0.85	0.75	0.68	0.64	0.60	0.56	0.53
25cm	0.87	0.87	0.75	0.72	0.69	0.68	0.64

2、不同环境因素对电缆载流量的影响系数

2. Ampacity coefficient resulted from varied environment condition

不同土壤热阻系数对载流量的影响
 Varied soil heat resistance coefficient

土壤热阻系数 $^\circ\text{C} \cdot \text{m}/\text{W}$ Soil heat resistance coefficient	影响系数 Factor
0.7	1.14
1.0	1.00
1.2	0.93
1.5	0.84
2.0	0.74
2.5	0.67

土壤温度对载流量的影响
 Varied soil temperature

土壤温度 ℃ Soil temperature	导体最高温度℃ Max. temperature	
	90	80
0	1.16	1.17
5	1.13	1.14
10	1.10	1.14
15	1.06	1.07
20	1.03	1.04
25	1.00	1.00
30	0.96	0.96

环境空气温度对载流量的影响
 Ambient atmosphere temperature

空气温度℃ Air temperature	导体最高温度℃ Max. temperature	
	90	80
15	1.22	1.27
20	1.18	1.22
25	1.14	1.17
30	1.09	1.11
35	1.04	1.06
40	1.00	1.00
45	0.94	0.93

8 交联电缆导体短路电流计算和供参考导体短路电流

Calculation Formula of Shorted Circuit Current and Its Reference Value

1、导体短路电流计算在不同短路持续时间里，导体短路电流按下式进行计算。

$$I_k = I_1 / t_k$$

其中 I_1 — 表示短路持续时间的短路电流

1. Calculation of shorted current as a function of time is calculated as the following formula:

$$I_k = I_1 / t_k$$

when, I_k means shorted circuit current when it is shorted t_k seconds



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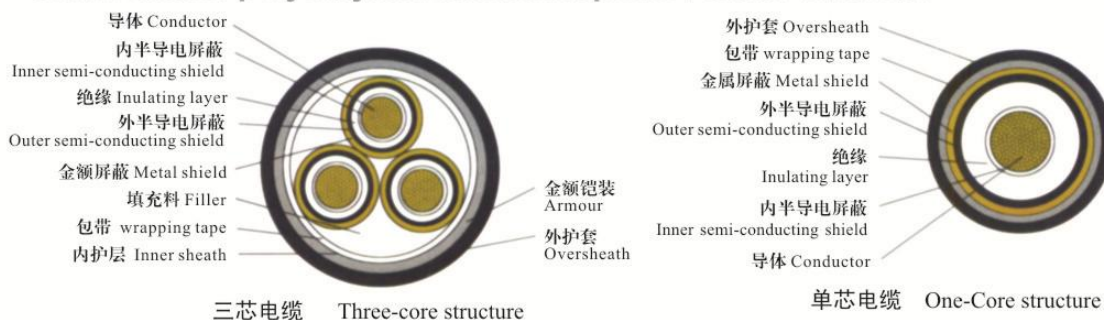
I_1 —表示1秒钟的短路电流, (1秒钟短路电流见下表)
 t_k —持续短路时间
2、交联电缆导体短路电流 (短路时间为1秒钟)

I_1 means shorted circuit current when it is shorted for 1 seconds, see the following table.
 t_k denotes duration when circuit is shorted
2. Shorted circuit currint of XLPE cable for 1 seconds

标称截面 Cross-section mm ²			25	35	50	70	95	120	150	185	240	300	400	500	630
短路 电流	导体温度 65℃ Conductor temperature	Cu	4.03	5.26	7.98	11.10	15.00	19.00	23.70	29.10	37.70	47.10	62.60	78.30	92.10
		Al	2.65	3.70	5.25	7.33	9.90	12.50	15.60	19.20	24.80	31.00	41.20	51.50	62.09
Shorted circuit current	导体温度 80℃ Conductor temperature	Cu	3.85	5.37	7.62	10.60	14.40	18.10	22.60	27.80	36.00	44.90	59.80	74.70	89.30
		Al	2.52	3.52	5.00	6.97	9.42	11.90	14.80	18.20	23.60	29.50	39.20	49.00	58.83
kA	导体温度 90℃ Conductor temperature	Cu	3.69	5.15	7.31	10.20	13.80	17.40	21.70	26.70	34.60	43.10	57.40	71.70	84.10
		Al	2.42	3.37	4.79	6.68	9.03	11.40	14.20	17.50	22.60	28.20	37.60	47.00	56.60

9 交联聚乙烯绝缘电力电缆结构图

Ceoss-linked polyethylene insulated powe r cable structure



10 产品技术参数

Technical Parameter of the Product

电压等级

Voltage class (kV) 26/35kV

型号

Type YJV、YJLV

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μF/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
50	10.5	38.8	0.12	245	190	225	175	1745	1435
70	10.5	40.7	0.13	305	235	275	215	2025	1591
95	10.5	42.3	0.15	370	285	330	255	2331	1742
120	10.5	43.9	0.16	425	330	375	290	2647	1903
150	10.5	45.5	0.17	485	375	420	325	2998	2068
185	10.5	47.3	0.18	555	430	475	370	3414	2218
240	10.5	49.7	0.19	650	505	555	430	4044	2556
300	10.5	51.9	0.21	745	580	630	490	4696	2836
400	10.5	55.3	0.23	870	680	720	565	5801	3320
500	10.5	60.3	0.25	1000	790	825	645	7132	4032
630	10.5	64.5	0.28	1160	920	940	740	8515	4609



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电压等级

Voltage class (kV) 21/35kV(含阻燃、低烟无卤型)

型号

Type YJV YJLV -YJV-YJLV

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
50	9.3	35.8	0.13	245	190	225	175	1551	1241
70	9.3	37.5	0.15	305	235	275	215	1792	1358
95	9.3	39.5	0.16	370	285	330	255	2127	1538
120	9.3	40.7	0.17	425	330	375	290	2415	1671
150	9.3	42.5	0.18	485	375	420	325	2778	1848
185	9.3	44.1	0.19	555	430	475	370	3164	1968
240	9.3	46.5	0.21	650	505	555	430	3782	2294
300	9.3	48.9	0.23	745	580	630	490	4444	2584
400	9.3	52.3	0.25	870	680	720	565	5518	3038
500	9.3	57.7	0.28	1000	790	825	645	5926	2826
630	9.3	61.6	0.31	1160	920	940	740	7206	3300

电压等级

Voltage class (kV) 18/30kV

型号

Type YJV、YJLV

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
50	8.0	32.6	0.14	245	190	225	175	1363	1053
70	8.0	34.3	0.16	305	235	275	215	1614	1180
95	8.0	36.1	0.18	370	285	330	255	1919	1330
120	8.0	37.5	0.19	425	330	375	290	2203	1459
150	8.0	39.3	0.20	485	375	420	325	2556	1626
185	8.0	40.9	0.22	555	430	475	370	2934	1739
240	8.0	43.3	0.24	650	505	555	430	3540	2052
300	8.0	45.7	0.26	745	580	630	490	4191	2331
400	8.0	49.1	0.28	870	680	720	565	5246	2766
500	8.0	54.6	0.32	1000	790	825	645	6561	3461
630	8.0	58.4	0.35	1160	920	940	740	7906	4000



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电压等级
Voltage class (kV) 12kV/20kV

型号
Type YJV、YJLV

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
25	5.5	23.9	0.15	165	130	160	120	738	583
35	5.5	24.9	0.16	205	155	190	145	860	643
50	5.5	26.4	0.18	245	190	225	175	1138	828
70	5.5	28.1	0.20	305	235	275	215	1281	847
95	5.5	29.9	0.22	370	290	330	255	1570	981
120	5.5	31.3	0.24	430	335	375	290	1839	1095
150	5.5	33.1	0.26	490	380	425	330	2174	1244
185	5.5	34.7	0.28	560	433	480	370	2540	1342
240	5.5	37.1	0.31	665	515	555	435	3120	1632
300	5.5	39.5	0.34	765	595	630	490	3746	1886
400	5.5	44.1	0.39	890	695	725	565	4863	2383
500	5.5	47.6	0.44	1030	810	825	650	5905	2805
630	5.5	51.3	0.47	1190	950	940	745	7220	3314
3×25	5.5	50.1	0.22	128	99	155	120	2598	2131
3×35	5.5	52.5	0.25	155	120	185	143	3023	2371
3×50	5.5	55.5	0.26	180	139	218	169	3891	2959
3×70	5.5	59.3	0.28	223	173	267	207	4396	3090
3×95	5.5	63.0	0.30	271	210	318	247	5246	3493
3×120	5.5	66.2	0.32	312	243	363	282	6190	3952
3×150	5.5	69.8	0.33	363	281	417	323	7240	4442
3×185	5.5	73.7	0.035	404	315	460	358	8499	4901
3×240	5.5	78.6	0.38	471	367	531	414	10353	5877
3×300	5.5	83.8	0.40	536	419	596	466	12328	6733
3×400	5.5	93.6	0.44	630	496	684	539	15921	8461

电压等级
Voltage class (kV) 12kV/ 20kV

型号
Type YJV₂₂、YJLV₂₂

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
3×25	5.5	55.5	0.22	129	100	155	120	3833	3476
3×35	5.5	57.9	0.25	156	120	185	144	4313	3702
3×50	5.5	61.1	0.26	184	143	217	169	5281	4311
3×70	5.5	64.9	0.28	229	177	267	207	5878	4399
3×95	5.5	68.8	0.30	275	213	319	247	6867	4770
3×120	5.5	72.2	0.32	316	246	363	282	7906	5192
3×150	5.5	75.8	0.33	363	281	412	319	9045	5554
3×185	5.5	79.9	0.35	408	317	460	357	10435	6070
3×240	5.5	86.4	0.38	478	372	531	413	13299	7532
3×300	5.5	91.6	0.40	546	425	598	466	15463	8169
3×400	5.5	101.8	0.44	638	501	686	539	19505	9662



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电压等级

Voltage class (kV)

8.7/10kV, 8.7/15kV

型号

Type YJV、YJLV

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
25	4.5	21.6	0.17	165	130	160	120	652	497
35	4.5	22.9	0.19	205	155	190	145	779	562
50	4.5	24.2	0.21	245	190	225	175	952	642
70	4.5	26.1	0.24	305	235	275	215	1190	756
95	4.5	27.7	0.26	370	290	330	255	1461	872
120	4.5	29.3	0.28	430	335	375	290	1738	994
150	4.5	30.9	0.31	490	380	425	330	2054	1124
185	4.5	32.7	0.33	560	435	480	370	2427	1231
240	4.5	35.1	0.37	665	515	555	435	3001	1513
300	4.5	37.3	0.40	765	595	630	490	3604	1744
400	4.5	41.9	0.46	890	695	725	565	4702	2222
500	4.5	45.4	0.52	1030	810	825	650	5735	2635
630	4.5	49.1	0.56	1190	950	940	745	7035	3129
3×25	4.5	45.4	0.23	123	95	153	119	2276	1810
3×35	4.5	48.0	0.25	148	114	183	142	2682	2029
3×50	4.5	51.0	0.28	178	138	218	169	3265	2333
3×70	4.5	54.8	0.30	246	172	266	206	4014	2708
3×95	4.5	58.5	0.32	267	207	318	246	4898	3126
3×120	4.5	61.7	0.34	308	239	361	280	5767	3529
3×150	4.5	65.3	0.36	335	271	406	315	6833	4036
3×185	4.5	69.0	0.41	394	310	461	359	8040	4443
3×240	4.5	74.1	0.42	465	363	529	413	9945	5469
3×300	4.5	79.1	0.45	528	413	593	464	11863	6268
3×400	4.5	89.1	0.49	622	491	682	538	15320	7860

电压等级

Voltage class (kV)

8.7/10kV, 8.7/15kV

型号

Type YJV₂₂、YJLV₂₂

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
3×25	4.5	50.6	0.23	126	97	154	119	3358	2892
3×35	4.5	53.0	0.25	151	117	184	143	3816	3164
3×50	4.5	56.2	0.27	181	141	218	169	4494	3562
3×70	4.5	60.0	0.31	225	175	267	207	5333	7027
3×95	4.5	64.1	0.32	273	211	318	246	6359	4588
3×120	4.5	67.5	0.34	311	242	360	280	7338	5100
3×150	4.5	71.1	0.35	353	273	404	313	8493	5696
3×185	4.5	75.0	0.39	402	312	456	355	9824	6226
3×240	4.5	80.3	0.41	473	369	531	414	11894	7418
3×300	4.5	86.9	0.46	540	421	598	467	14826	9231
3×400	4.5	97.0	0.49	640	503	682	544	18650	11190



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电压等级

Voltage class (kV) 6.6kV, 6/10kV

型号

Type YJV、YJLV

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
25	3.4	19.4	0.21	165	130	160	120	571	416
35	3.4	20.4	0.23	205	155	190	145	687	470
50	3.4	21.7	0.26	245	190	225	175	855	545
70	3.4	23.7	0.29	305	235	275	215	1086	652
95	3.4	25.3	0.33	370	290	330	255	1351	762
120	3.4	26.9	0.36	430	335	375	290	1622	878
150	3.4	28.5	0.39	490	380	425	330	1932	1002
185	3.4	30.3	0.42	560	435	480	370	2299	1103
240	3.4	32.7	0.47	665	515	555	435	2864	1376
300	3.4	34.9	0.51	765	595	630	490	3459	1599
400	3.4	39.7	0.59	890	695	725	565	4557	2077
500	3.4	43.0	0.65	1030	810	825	650	5559	2459
630	3.4	46.9	0.72	1190	950	940	745	6867	2961
3×25	3.4	40.5	0.28	120	93	154	119	1957	1491
3×35	3.4	42.8	0.28	144	112	184	142	2354	1701
3×50	3.4	45.8	0.30	174	135	217	168	2916	1984
3×70	3.4	49.7	0.33	215	167	264	205	3643	2337
3×95	3.4	53.3	0.36	262	204	317	246	4505	2733
3×120	3.4	56.5	0.40	303	235	361	280	5353	3116
3×150	3.4	60.2	0.41	345	267	406	315	6358	3560
3×185	3.4	63.8	0.44	394	306	459	357	7498	3901
3×240	3.4	69.0	0.49	464	363	532	415	9270	4794
3×300	3.4	74.1	0.51	531	416	601	471	11183	5588
3×400	3.4	84.0	0.56	626	496	690	545	14584	7127

电压等级

Voltage class (kV) 6/6kV, 6/10kV

型号

Type YJV₂₂、YJLV₂₂

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
3×25	3.4	45.5	0.28	123	95	154	119	2920	2468
3×35	3.4	47.6	0.28	149	115	185	143	3349	2641
3×50	3.4	51.0	0.30	178	135	218	169	4025	2951
3×70	3.4	55.1	0.33	220	170	264	205	4867	3302
3×95	3.4	58.7	0.36	268	207	318	246	5816	3640
3×120	3.4	62.1	0.40	307	238	360	280	6769	3932
3×150	3.4	65.8	0.41	350	272	406	315	7861	4247
3×185	3.4	69.6	0.44	400	311	459	357	9122	4625
3×240	3.4	75.0	0.49	472	368	533	415	11054	5147
3×300	3.4	80.3	0.51	539	421	603	470	13132	5688
3×400	3.4	91.6	0.56	638	502	694	546	17689	7684



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电压等级

Voltage class (kV) 3.6/6kV

型号

Type YJV、YJLV

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
25	2.5	17.4	0.26	165	130	160	120	505	350
35	2.5	18.4	0.29	205	155	190	145	616	399
50	2.5	19.9	0.33	245	190	225	175	788	478
70	2.5	21.0	0.38	305	235	275	215	999	565
95	2.5	23.5	0.42	370	290	330	255	1276	687
120	2.5	24.9	0.46	430	335	375	290	1532	788
150	2.5	26.7	0.51	490	380	425	330	1849	919
185	2.5	28.3	0.55	560	436	480	370	2197	1001
240	2.5	30.7	0.61	665	515	555	435	2763	1275
300	2.5	33.7	0.61	765	595	630	490	3391	1531
400	2.5	38.9	0.65	890	695	725	565	4433	1953
500	2.5	42.2	0.69	1030	810	825	650	5474	2374
630	2.5	45.6	0.76	1190	950	940	745	6751	2845
3×25	2.5	36.4	0.29	117	90	154	119	1710	1244
3×35	2.5	38.5	0.30	142	110	185	143	2073	1420
3×50	2.5	41.5	0.33	169	131	216	167	2614	1681
3×70	2.5	44.3	0.35	210	163	264	204	3317	2011
3×95	2.5	49.3	0.39	257	200	316	245	4183	2412
3×120	2.5	52.5	0.40	298	231	360	280	5014	2776
3×150	2.5	56.1	0.45	336	261	402	312	6000	3202
3×185	2.5	59.8	0.50	393	306	461	359	7154	3556
3×240	2.6	64.9	0.54	463	362	533	416	8925	4449
3×300	2.6	71.3	0.58	526	413	599	469	10937	5342
3×400	2.6	80.3	0.58	605	478	680	538	14214	6754

电压等级

Voltage class (kV) 3.6/6kV

型号

Type YJV₂₂、YJLV₂₂

标称截面 Nominal cross section (mm ²)	绝缘厚度 Insulation thickness (mm)	计算外径 O.D. (mm)	电容 Electric capacity μ F/km	在空气中敷设近似载流量 Approx. Ampacity (air) (A)		埋地敷设近似载流量 Current Ampacity underground (A)		成品近似重量 Approx. weight of finished product (kg/km)	
				Cu	Al	Cu	Al	Cu	Al
3×25	2.5	41.0	0.24	118	91	150	117	2542	2052
3×35	2.5	43.5	0.26	144	111	181	140	2993	2263
3×50	2.5	46.5	0.29	172	133	215	166	3601	2486
3×70	2.5	49.3	0.34	213	165	263	204	4368	2749
3×95	2.5	54.3	0.35	261	202	315	244	5348	3089
3×120	2.5	57.9	0.40	301	233	358	278	6303	3416
3×150	2.5	61.7	0.41	341	264	402	312	7405	3762
3×185	2.5	65.4	0.44	392	305	456	355	8646	4095
3×240	2.6	70.7	0.45	459	358	527	410	10573	4607
3×300	2.8	77.3	0.47	532	415	599	468	12779	5283
3×400	3.0	88.1	0.49	624	491	685	539	17225	7191



额定电压 110kV 交联聚乙烯绝缘电力电缆 Crosslinking polyethylene insulated power cable with rated voltage of 110kV

1 产品命名

Product naming

1.1 代号

本产品采用下列代号：

交联聚乙烯绝缘 YJ 金属塑料复合护套 A
铜导体 T (省略) 聚氯乙烯外护套 02
铝导体 L 聚乙烯外护套 03
铅套 Q 纵向阻水结构 Z
皱纹铝套 LW

注：金属塑料复合护套的代号供合同要求此类型电缆时使用。

1.1 Code

The standard adopts the following codes:

Crosslinking polyethylene insulation YJ Metal/plastic laminated jacket A
Copper conductor T(omitted) Polyvinyl chloride outer jacket 02
Aluminum conductor L Polyethylene outer jacket 03
Lead sheath Q Longitudinal AQB structure Z
Corrugated-aluminum sheath LW

Note: The code for metal / plastic laminated jacket only used for this type of cable according to the demands in the contrast; for the related test, refer to Appendix D.

1.2 型号

型号依次由绝缘、导体、金属套、非金属外护套或通用外护层以及阻水结构的代号构成。

电缆的型号和名称见表 1。

1.2 Type

The type is composed of the codes of insulation, conductor, metal sheath, nonmetal outer sheath or common outer sheath, and AQB structure in sequence

The type and cable name included in the standard are shown in Figure 1.

表 1. 电缆的型号和名称

Form 1. Type and name of the cable

型 号 Model		电 缆 名 称 Cable name
铜芯 Copper core	铝芯 Aluminum core	
YJLW02	YJLLW02	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚氯乙烯护套电力电缆 Cross-linked polyethylene insulating creasing-aluminum sheathed or welded creasing-aluminum sheathed PVC sheath power cable
YJLW03	YJLLW03	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯护套电力电缆 cross-linked polyethylene insulating creasing-aluminum sheathed or welded creasing-aluminum sheathed polyethylene sheath power cable
YJLW02-Z	YJLLW02-Z	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯护套纵向阻水电力电缆 cross-linked polyethylene insulating creasing-aluminum sheath or welded creasing-aluminum sheath PVC sheath longitudinal waterproof power cable
YJLW03-Z	YJLLW03-Z	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯护套纵向阻水电力电缆 cross-linked polyethylene insulating creasing-aluminum sheath or welded creasing-aluminum sheath polyethylene sheath longitudinal waterproof power cable
YJQ02	YJLQ02	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯护套电力电缆 cross-linked polyethylene insulating creasing-aluminum sheath or welded creasing-aluminum sheath polyethylene sheath longitudinal waterproof power cable
YJQ03	YJLQ03	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯护套电力电缆 cross-linked polyethylene insulating lead bushing PVC sheath power cable
YJQ02-Z	YJLQ02-Z	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯护套纵向阻水电力电缆 cross-linked polyethylene insulating lead bushing polyethylene sheath power cable
YJQ03-Z	YJLQ03-Z	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯护套纵向阻水电力电缆 cross-linked polyethylene insulating lead bushing PVC sheath longitudinal waterproof power cable

注：皱纹铝套包括挤包皱纹铝套和铝带焊接皱纹铝套。按 JB/T 5268.1 二者代号均为 LW；焊接皱纹铝套应在产品名称中明确表示，名称中未注明“焊接”的即为挤包皱纹铝套。
Note: creasing-aluminum sheath includes extruded creasing-aluminum sheath and strip welding creasing-aluminum sheath. According to JB/T 5268.1, both have the symbol LW. The welding creasing-aluminum sheath shall be noted clearly on products. If the name has no "welding", it is extruded creasing-aluminum sheath.

1.3 规格

电缆的规格用额定电压、导体芯数、导体标称截面积表示。

电缆导体标称截面积(mm²)有：

240, 300, 400, 500, 630, 800, 1000, 1200, (1400), 1600

其中括号内截面积为非优选截面积。用户要求时，允许采用其他截面积的导体。

1.3 Specification

The cable specification is represented with rated voltage, the core number of the conductor, and nominal cross sectional area of the conductor

Nominal cross sectional areas of the cable conductor included in the standard are (mm²):

240, 300, 400, 500, 630, 800, 1000, 1200, (1400), 1600

The sectional area in the parentheses is non-optimized sectional area. When demanded, conductors with other sectional area are permitted.



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1.4 产品表示方法

1.4.1 产品用型号、规格和标准编号表示。

1.4.2 举例

a) 额定电压 64/110kV、单芯、铜导体标称截面积 630mm²、交联聚乙烯绝缘皱纹铝套聚氯乙烯护套电力电缆，表示为：

YJLW02 64/110 1X630 GB/T 11017.2-2002

b) 额定电压 64/110kV、单芯、铜导体标称截面积 300mm²、交联聚乙烯绝缘铅套聚乙烯护套纵向阻水电力电缆，表示为

YJQ03-Z 64/110 1X300 GB/T 11017.2-2002

2 使用特性

2.1 额定电压

额定电压是电缆设计和电性能试验用的基准电压，用 U_0/U 和 U_m 标识，这些符号的单方由 JB/T 8996 给出：

U_0 — 电缆设计用的导体与金属屏蔽或金属套之间的额定电压有效值，kV；

U — 电缆设计用的导体之间的额定电压有效值，kV；

U_m — 设备最高工作电压有效值，kV。

在本产品中额定电压为： $U_0/U=64/110$

最高电压为： $U_m=126$

2.2 系统类别

本产品适合于运行在 JB/T 8996 规定的 A 类系统。

2.3 工作温度

2.3.1 电缆正常运行时导体允许的长期最高温度为 90℃。

2.3.2 短路时（最长持续时间不超过 5s），电缆导体允许的最高温度为 250℃。

2.4 弯曲半径

电缆安装时允许的最小弯曲半径一般为电缆直径的 25 倍

2.5 使用环境

2.5.1 电缆敷设时，在保证足够机械拉力的情况下不受落差限制，但不允许敷设在磁性材料管道中，也不允许沿电缆周围形成环状的铁质金具固定电缆。

2.5.2 电缆敷设时，其温度应不低于 0℃。当电缆湿度低于 0℃ 时，应采用适当的方法将电缆加热到 0℃ 及以上。

1.4 Representation method of products

1.4.1 A product is represented with type, specification and standard serial number.

1.4.1 Example

a) Rated voltage 64/110kV, single-core, copper conductor with nominal cross sectional area of 630mm², crosslinking polyethylene insulated corrugated-aluminum sheathed Polyvinyl chloride sheathed power cable is represented in: YJLW02 64/110 1X630 GB/T 11017.2-2002

b) Rated voltage 64/110kV, single-core, copper conductor with nominal cross sectional area of 300mm², crosslinking polyethylene insulated lead sheathed polyethylene sheathed longitudinal-AQB power cable is represented in:

YJQ03-Z 64/110 1X300 GB/T 11017.2-2002

Operational performance

2.1 Rated voltage

Rated voltage is a reference voltage used for cable design and electrical property test, and identified with U_0/U and U_m in the standard. The meaning of the symbols is defined as per JB/T 8996.

U_0 — Virtual value of the rated voltage between conductor used for cable design and metallic shield or metallic sheath, kV;

U — Virtual value of the rated voltage between conductors used for cable design, kV;

U_m — Virtual value of the highest working voltage for equipment, kV.

In the standard: $U_0/U=64/110$

$U_m=126$

2.2 System classification

The cable included in the standard is applicable to operating in System A regulated in JB/T 8996.

2.3 Working temperature

2.3.1 Permissible continuous operating maximum temperature of conductor is 90℃.

2.3.2 Maximum Short-circuit (the longest continuous time is no more than 5s) temperature of the conductor shall not exceed 250℃

2.4 Bending radius

When installing cable, the minimum bending radius is commonly 25 times of the cable diameter.

2.5 Operating environment

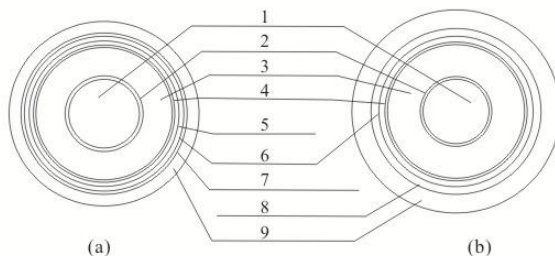
2.5.1 When installing, the cable can be laid with no limitation of fall difference along the route under adequate mechanical tension, but it should not be permitted to be laid in pipe of magnetic material, and not permitted to be fixed with annular iron hardware around the cable.

2.5.2 The ambient temperature under installation should not be below 0℃. When the cable temperature is below 0℃, it should be heated to 0℃ or more in an appropriate method.

3 电缆结构

- 3.1 800mm²及以下的导体为紧压圆形绞合导体, 1000mm²及以上的导体为分割导体结构。
- 3.2 内屏蔽采用超光滑交联型半导体屏蔽料 挤包在导体上, 标称截面 500mm² 及以上电缆的内屏蔽由半导体包带和挤包半导体层组成。
- 3.3 绝缘采用超净交联聚乙烯绝缘料挤包在导体屏蔽上。
- 3.4 外屏蔽采用超光滑交联型屏蔽料挤包在绝缘上。
- 3.5 有纵向阻水层的电缆, 纵向阻水层采用半导电阻水带绕包在外屏蔽与径向防水层之间。
- 3.6 金属屏蔽层采用疏绕铜丝或铜带, 也可根据使用要求设计不同截面的金属屏蔽层。
- 3.7 径向防水层分别为纵包铝塑复合带、皱纹铝套或铅套, 皱纹铝套和铅套可作为金属屏蔽层。
- 3.8 外护套采用 PVC 和 PE 护套料挤制。表面涂敷一层半导体涂层。

电缆典型结构示意图见下图:



电缆典型结构示意图

The schematic of the typical cable structure is shown in the figure above.

- (a) YJV、YJLV、YJY、YJLY 型;
(b) YJ(L) Q02、YJ(L) Q03、YJ(L) LW02、YJ(L) LW03 型
1—导体线芯; 2—内屏蔽; 3—绝缘; 4—外屏蔽;
5—铜丝屏蔽; 6—纵向阻水层; 7—综合防水层;
8—金属套 (铝套或皱纹铝套); 9—外护套 (PVC或PE)

- (a) YJV, YJLV, YJY, YJLY type;
(b) YJ(L) Q02, YJ(L) Q03, YJ(L) LW02, YJ(L) LW03 type
1— cable core of the conductor; 2 -- internal shielding; 3 -- insulation
4 -- external shielding; 5 -- copper wire shielding
6 -- longitudinal AQB layer; 7 -- integrated AQB layer
8 -- metal sheath (lead sheath or corrugated-aluminum sheath)
9 -- outer sheath (PVC or PE)

4 制造依据

产品制造依据 GB/T 11017.2-2002 (额定电压110kV 交联聚乙烯绝缘电力电缆及附件第 2 部分: 额定电压 110kV 交联聚乙烯绝缘电力电缆)

Manufacturing basis

The products are manufactured according to GB/T 11017.2-2002 (Crosslinking polyethylene insulated power cable with rated voltage of 110kv and the second part of its appendix: Crosslinking polyethylene insulated power cable with rated voltage of 110kv)



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5 产品技术参数

Technical parameter of the product

YJQ02、YJLQ02 型电缆结构参数及有关电性能参数

YJQ02、YJLQ02 Cable structural parameter and related electrical property parameter

额定电压 Rated voltage (kV)	导体标称截面 Nominal cross sectional area of the conductor (mm ²)	导体外径 Outer diameter of the conductor (mm)	内屏蔽厚度 Width of the Internal shielding (mm)	绝缘厚度 Width of the insulation (mm)	外屏蔽厚度 Width of the external shielding (mm)	铅包厚度 (mm)	外护套厚度 Width of the outer sheath (mm)	电缆外径 Inner diameter of the cable (mm)
110	240	18.40	1.5	19.0	1.0	3.4	2.7	79.2
	300	20.60	1.5	18.5	1.0	3.4	2.7	80.4
	400	23.50	1.5	17.5	1.0	3.4	2.7	81.5
	500	26.60	1.5	17.0	1.0	3.4	2.8	84.0
	630	30.25	1.5	16.5	1.0	3.4	2.9	86.8
	800	34.23	1.5	16.0	1.0	3.4	2.9	89.8
	1000	41.40	2.0	16.0	1.0	3.5	3.2	99.3
	1200	45.28	2.0	16.0	1.0	3.5	3.3	103.4

额定电压 Rated voltage (kV)	电缆总重（近似值） Total weight of the cable (approximation) (kg/km)		电容 Capacitance (pF/m)	电感 Inductance (mH/km)		绝缘损耗 Insulation wastage (W/m)	导体直流电阻 Direct current resistance of the conductor (20℃，≤，Ω/km)	
	Cu	Al		平行敷设	三角形敷设		Cu	Al
				Laying in parallel	Laying in triangle			
110	14233	12711	136	0.757	0.482	0.175	0.0754	0.1250
	15060	13135	147	0.734	0.463	0.190	0.0601	0.1000
	15948	13487	165	0.708	0.438	0.212	0.0470	0.0778
	17332	14171	182	0.683	0.419	0.234	0.0336	0.0605
	19184	15097	201	0.657	0.400	0.259	0.0283	0.0469
	21348	16156	224	0.633	0.382	0.288	0.0221	0.0367
	26181	19549	265	0.594	0.365	0.341	0.0176	0.0291
	28588	20873	282	0.577	0.355	0.363	0.0151	0.0247

YJLW02、YJLLW02 型电缆结构参数及有关电性能参数

YJLW02、YJLLW02 Cable structural parameter and related electrical property parameter

额定电压 Rated voltage (kV)	导体标称截面 Nominal cross sectional area of the conductor (mm ²)	导体外径 Outer diameter of the conductor (mm)	内屏蔽厚度 Width of the Internal shielding (mm)	绝缘厚度 Width of the insulation (mm)	外屏蔽厚度 Width of the external shielding (mm)	铅包厚度 (mm)	外护套厚度 Width of the outer sheath (mm)	电缆外径 Inner diameter of the cable (mm)
110	240	18.40	1.5	19.0	1.0	2.0	2.9	90.6
	300	20.60	1.5	18.5	1.0	2.0	3.0	91.8
	400	23.50	1.5	17.5	1.0	2.0	3.0	92.9
	500	26.60	1.5	17.0	1.0	2.0	3.1	95.4
	630	30.25	1.5	16.5	1.0	2.0	3.1	98.3
	800	34.23	1.5	16.0	1.0	2.0	3.2	101.2
	1000	41.40	2.0	16.0	1.0	2.0	3.4	110.5
	1200	45.28	2.0	16.0	1.0	2.0	3.4	114.6

额定电压 Rated voltage (kV)	电缆总重（近似值） Total weight of the cable (approximation) (kg/km)		电容 Capacitance (pF/m)	电感 Inductance (mH/km)		绝缘损耗 Insulation wastage (W/m)	导体直流电阻 Direct current resistance of the conductor (20℃，≤，Ω/km)	
	Cu	Al		平行敷设	三角形敷设		Cu	Al
				Laying in parallel	Laying in triangle			
110	7905	6383	136	0.757	0.508	0.175	0.0754	0.1250
	8617	6692	147	0.734	0.489	0.190	0.0601	0.1000
	9415	6954	165	0.708	0.465	0.212	0.0470	0.0778
	10655	7495	182	0.683	0.445	0.234	0.0336	0.0605
	12182	8095	201	0.657	0.424	0.259	0.0283	0.0469
	14053	8861	224	0.633	0.406	0.288	0.0221	0.0367
	17510	10878	265	0.594	0.386	0.341	0.0176	0.0291
	19470	11756	282	0.577	0.375	0.363	0.0151	0.0247



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

YJQ02、YJLQ02 型电缆载流量 (A)

Current carrying capacity of the cable of YJQ02, YJLQ02 type (A)

额定电压 Rated voltage (kv)	导体截面 voltage sectional area (mm ²)	直埋土壤中 Laying in soil directly								在空气中 In air							
		平行敷设 Laying in parallel				三角形敷设 Laying in triangle				平行敷设 Laying in parallel				三角形敷设 Laying in triangle			
		单端接地 或交叉互连 Single end grounding or cross connection		双端接地 Double end groundin		单端接地 或交叉互连 Single end grounding or cross connection		双端接地 Double end groundin		单端接地 或交叉互连 Single end grounding or cross connection		双端接地 Double end groundin		单端接地 或交叉互连 Single end grounding or cross connection		双端接地 Double end groundin	
		Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
110	240	551	428	479	392	517	403	510	399	795	618	738	590	724	563	718	561
	300	622	484	524	433	583	454	573	450	912	709	830	668	827	644	819	640
	400	710	555	574	482	663	520	649	514	1064	831	942	769	958	751	945	744
	500	841	635	637	532	781	595	758	584	1286	971	1090	878	1148	872	1126	863
	630	918	726	669	582	850	679	820	663	1438	1136	1184	997	1273	1014	1243	999
	800	1031	823	710	630	948	768	907	745	1654	1320	1305	1120	1448	1169	1404	1145
	1000	1200	945	761	681	1113	888	1042	850	1994	1556	1479	1276	1747	1387	1669	1347
	1200	1293	1028	786	712	1196	966	11015	916	2189	1736	1570	1374	1905	1530	1804	1476

YJLW02、YJLLW02 型电缆载流量 (A)

Current carrying capacity of the cable of YJLW02, YJLLW02 type (A)

额定电压 Rated voltage (kv)	导体截面 voltage sectional area (mm ²)	直埋土壤中 Laying in soil directly								在空气中 In air							
		平行敷设 Laying in parallel				三角形敷设 Laying in triangle				平行敷设 Laying in parallel				三角形敷设 Laying in triangle			
		单端接地 或交叉互连 Single end grounding or cross connection		双端接地 Double end groundin		单端接地 或交叉互连 Single end grounding or cross connection		双端接地 Double end groundin		单端接地 或交叉互连 Single end grounding or cross connection		双端接地 Double end groundin		单端接地 或交叉互连 Single end grounding or cross connection		双端接地 Double end groundin	
		Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
110	240	558	434	469	387	516	405	493	393	807	628	738	590	734	573	672	532
	300	629	490	512	427	579	455	548	440	926	720	830	668	837	655	756	602
	400	718	563	557	473	655	520	610	496	1080	845	942	759	966	762	857	691
	500	847	643	616	521	763	590	695	557	1302	986	1090	878	1149	882	995	788
	630	923	734	649	570	825	669	741	622	1454	1153	1184	997	1269	1021	1080	896
	800	1032	830	690	617	910	750	802	686	1668	1336	1305	1120	1433	1170	1190	1007
	1000	1187	947	755	678	1041	854	891	765	1992	1576	1479	1276	1695	1371	1367	1157
	1200	1269	1025	786	714	1104	919	932	813	2177	1742	1570	1374	1831	1502	1452	1248

注：电缆载流量是在下列条件下的计算值：

1. 导体工作温度为 90℃，环境温度为 20℃。
2. 埋地敷设电缆的敷设深度为 1m，土壤热阻系数为 120 (℃, cm/W)。
3. 单回路敷设、平行敷设时，电缆轴芯间距为 250mm，三角形敷设时，电缆轴芯间距为电缆外径。

Note: Current carrying capacity is the value calculated under the following conditions:

1. The working temperature of the conductor should 90,and ambient temperature should be 20℃.
2. The depth of laying cable in soil is 1m, and rating factor for ground thermal resistance is 120 (℃, cm/W).
3. When laying in loop or parallel, the cable space length between shaft cores is 250mm, When laying in triangle, the cable space length between shaft cores is also the cable outer diameter.



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额定电压 0.6/1kV 聚氯乙烯绝缘聚氯乙烯护套电力电缆

0.6/1kV PVC INSULATED PVC SHEATHED POWER CABLE

(含普通型、阻燃型、耐火型、低烟低卤阻燃型)

(Including common cable, flame retardant cable, fire resistance cable and low smoke, low halogen, flame retardant cable)

1 产品特点及用途

Characteristics and Applications of the products

聚氯乙烯绝缘聚氯乙烯护套电力电缆具有良好的电气性能和化学稳定性，结构简单，使用方便，本产品适用于交流额定电压 U_0/U 为 0.6/1kV 及以下的输配电线路上。

阻燃电力电缆的主要特点是电缆不易着火或着火时延燃仅局限在一定范围内，适用于电缆敷设密集程度较高的发电站、地铁、隧道、高层建筑、大型工矿企业、油田、煤矿等场所。

耐火电力电缆的主要特点是电缆除了能在正常的工作条件下传输电力外，电缆在着火燃烧时能保持一定时间的正常运行，适用于对核电站、地铁、隧道、高层建筑等与防火安全和消防救生有关的地方。

低烟低卤阻燃电力电缆的特点是电缆不仅具备阻燃性能，而且具有较低的发烟性、低氯化氢释出量，适用于地铁、隧道、高层建筑、舰船等对电缆燃烧的烟浓度及氯化氢气体释出量有一定要求的场合。

PVC insulated PVC sheathed power cable has the advantages of not only good electrical properties and chemical stability, but also simple construction and convenient to use. It applies to electrical power transmission and distribution lines with A.C. rated voltage U_0/U up to and including 0.6/1 kilovolts.

The main characteristics of low-smoke and low-halogen fire resistant electric power cable are hard to catch fire or the expansion of flame is limited in a certain area, applicable for the places where cable wiring is dense such as power plant, metro, tunnel, high-rise building, large-scale factories, mines, oil field and coal mine, etc.

Fire-retardant cable can operate normally for some time when it is burning except that it can transmit electrical power under normal condition. It is used in the places such as nuclear power station, subway, tunnel, high-storey building and other places concerning fire security and its lifesaving and other places concerning fire security and its lifesaving.

The main characteristics of low smoke, low halogen, flame retardant power cable is low smoke emission and low release of HCL gas besides the property of flame retardant. It can be used in places with special demands of density of smoke emission and release value of HCL gas if cable is burnt such as subway, tunnel, high-storey building and naval vessel.

2 产品标准

Standards of the Products

本产品按 GB/T 12706.1-2008 标准生产。

The product according to GB/T 12706.1-2008 standard.

低烟低卤阻燃型电缆按 GB/T12706.1-2008、GB/T 19666-2005。

Low Smoke low halogen flame retardant cable according to GB/T12706.1-2008, GB/T19666-2005.

阻燃、耐火电缆执行 GB/T12706.1-2008、GB/T19666-2005、GA306-2007。

Flame-retardant, fire-resistant cable implementation GB/T12706.1-2008, GB/T19666-2005, GA306-2007.



3 产品型号

Type

● 普通型电缆型号

VV、VLV —— 聚氯乙烯绝缘聚氯乙烯护套电力电缆

VY、VLY —— 聚氯乙烯绝缘聚乙烯护套电力电缆

VV₂₂、VLV₂₂ —— 聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力电缆

VV₂₃、VLV₂₃ —— 聚氯乙烯绝缘钢带铠装聚乙烯护套电力电缆

● 阻燃型电缆型号

在普通型电力电缆型号前加 ZR。

● 低烟低卤阻燃型电缆型号

在普通型电力电缆型号前加 DDZR。

● 耐火型电缆型号

在普通型电力电缆型号前加 NH。

● Type of the common cable:

VV, VLV —— PVC insulated PVC sheathed power cable

VY, VLY —— PVC insulated PE sheathed power cable

VV₂₂, VLV₂₂ —— PVC insulated, steel tape armored, PVC sheathed power cable

VV₂₃, VLV₂₃ —— PVC insulated, steel tape armored, PE sheathed power cable

● Type of the flame retardant cable

plus Z (R) before the type of common power cable

● Type of the low smoke, low halogen, flame retardant cable:

plus DDZ (R) before the type of common power cable

● Type of the fire resistance cable:

plus NH before the type of common power cable

4 产品使用特性

Operating Characteristics

(1) 额定电压 U_0/U 为 0.6/1kV。

(2) 电缆导体的最高额定温度为 70℃。

(3) 短路时（最长持续时间不超过 5S）电缆导体的最高温度不超过 160℃。

(4) 电缆敷设时的环境温度应不低于 0℃，其最小弯曲半径如下：

单芯无铠装电缆——20D, mm; 有铠装电缆 15D

多芯无铠装电缆——12D, mm; 有铠装电缆 10D

(D、电缆外径 mm)

(1) Rated voltage U_0/U is 0.6/1kV.

(2) Maximum rated temperature of cable conductor is 70℃.

(3) Maximum conductor temperature is lower than 160℃ when cable is shorted for less than 5 seconds.

(4) Ambient temperature is not lower than 0℃ and its minimum bending radius is as follows when cables is installed:

Single-core non-sheathed cables - 20D, mm;

are sheathed cable 15D

Multi-core non-sheathed cables - 12D, mm;

are sheathed cable 10D

5 主要技术参数

Key Technical Parameter

● 电缆载流量计算条件

● 环境温度 25℃

● 电缆导体工作温度 70℃

● 电缆埋地敷设时，土壤热阻系数 $g=1.0^{\circ}\text{Cm/W}$ ，但尚未考虑电缆长期运行时由于水份迁移而导致土壤热阻系数升高的现象。

● 电缆埋地敷设时，电缆与地面距离为 1000mm。

● 多根电缆敷设时，电缆的距离 $S=3D$

● Calculation condition of capacity

● ambient temperature is 25℃

● conductor working temperature is 70℃

● When the cable is laid underground, the coefficient of soil heat resistance is $g=1.0^{\circ}\text{Cm/W}$ without considering the phenomenon of increased coefficient of soil heat resistance caused by moisture over in a long-term operation of cable.

● gap between of cable and surface of ground is 1000 millimeter when is is laid in ground

● for mulit-core cable, gap of cables is 3 times O.D.



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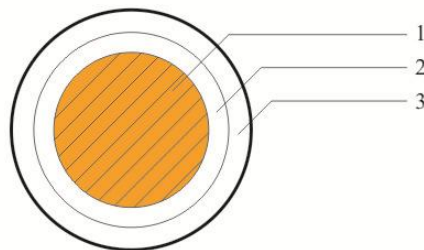
广东省著名商标

6 电缆结构

Cable structure

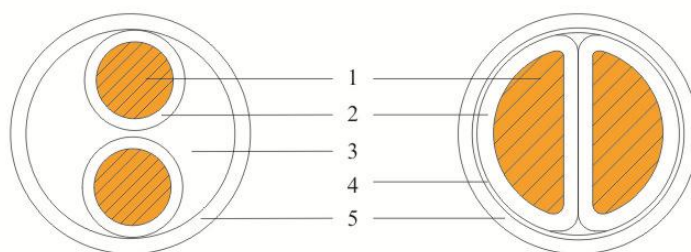
一芯结构

1、铜(铝)芯导体, 2、聚氯乙烯绝缘, 3、聚氯乙烯护套。



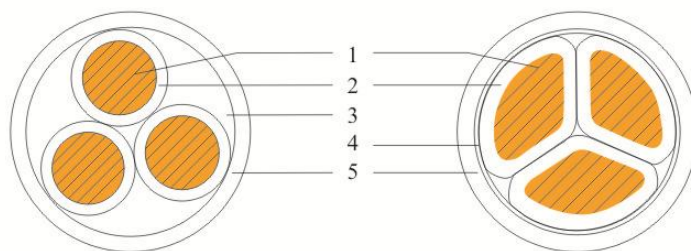
二芯结构

1、铜(铝)芯导体, 2、聚氯乙烯绝缘, 3、填充, 4、包带, 5、聚氯乙烯护套。



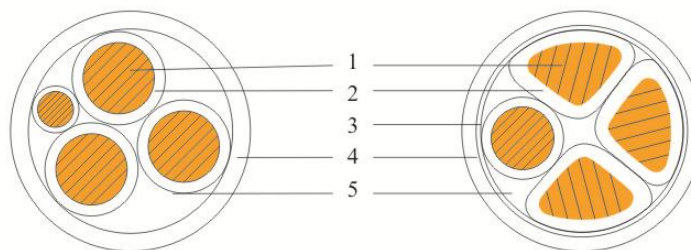
三芯结构

1、铜(铝)芯导体, 2、聚氯乙烯绝缘, 3、填充, 4、包带, 5、聚氯乙烯护套。



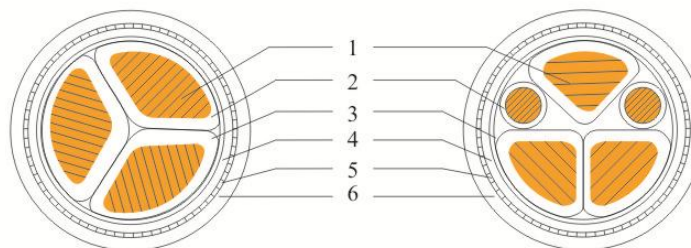
耐寒(防冻型)电缆结构

1、铜(铝)芯导体, 2、耐寒-40℃聚氯乙烯绝缘, 3、填充, 4、包带, 5、耐寒-40℃聚氯乙烯护套。



三芯、四芯铠装结构

1、铜(铝)芯导体, 2、聚氯乙烯绝缘, 3、填充, 4、包带, 5、钢带, 6、聚氯乙烯护套。





深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

VV、VLV

(含阻燃、耐火、低烟无卤型)

0.6/1kV

标称截面 Nominal cross section (mm ²)	电缆参考 外径 Reference overall diameter of cable (mm)	允许载流量 Permissible Ampacity (A)				成品近似重量 Reference weight of cable (kg/km)	
		空气中敷设 In air		埋地敷设 In ground			
		Cu	Al	Cu	Al		
2.5	7.2	32	25	44	35	74	35
4	8.1	42	33	57	45	100	76
6	8.6	54	42	73	57	124	87
10	10.0	75	57	101	78	183	119
16	11.0	99	77	133	103	251	149
25	12.7	132	103	175	136	367	206
35	13.9	162	125	210	163	475	252
50	15.6	194	150	250	194	618	316
70	17.4	246	189	314	241	840	403
95	19.7	298	231	375	291	1134	528
120	21.4	346	269	430	334	1384	618
150	23.3	395	306	484	375	1683	742
185	25.6	457	354	549	426	2084	904
240	28.7	550	427	640	496	2696	1145
300	31.7	636	492	726	562	3355	1409
400	35.1	745	578	834	647	4246	1758
500	38.6	876	682	959	746	5092	2060
630	42.3	1043	809	1113	863	6362	2510
2×2.5	11.3	26	20	34	27	158	126
2×4	13.1	35	27	44	35	221	171
2×6	14.1	44	35	56	44	274	199
2×10	16.7	60	46	76	58	378	248
2×16	18.8	80	62	100	77	519	314
2×25	22.3	107	83	129	100	758	433
2×35	24.6	131	102	157	121	978	510
2×50	23.1	152	118	187	145	1217	601
2×70	25.7	194	149	233	179	1613	750
2×95	29.3	238	185	278	215	2157	983
2×120	31.7	275	214	318	247	2658	1162
2×150	35.0	318	246	357	276	3296	1444
2×185	38.6	366	284	404	314	4027	1753

标称截面 Nominal cross section (mm ²)	电缆参考 外径 Reference overall diameter of cable (mm)	允许载流量 Permissible Ampacity (A)				成品近似重量 Reference weight of cable (kg/km)	
		空气中敷设 In air		埋地敷设 In ground			
		Cu	Al	Cu	Al		
3×2.5	11.9	22	17	29	23	194	147
3×4	13.8	29	23	38	30	274	199
3×6	14.9	37	29	47	37	348	235
3×10	17.6	52	40	65	50	529	335
3×16	19.9	68	53	85	66	740	432
3×25	23.7	91	71	110	86	1058	571
3×35	26.1	112	87	134	104	1382	705
3×50	26.4	133	103	159	124	1760	839
3×70	29.8	171	131	199	153	2364	1072
3×95	33.8	209	162	237	184	3158	1403
3×120	36.7	242	188	271	210	3921	1684
3×150	40.2	282	218	305	236	4868	2101
3×185	45.6	329	255	346	269	5952	2553
3×240	51.7	392	304	400	310	7713	3281
3×300	56.1	450	348	454	351	10004	4102
3×400	74.8	529	410	519	403	13827	
3×4+1×2.5	14.4	30	24	38	30	311	211
3×6+1×4	15.8	38	30	48	38	407	270
3×10+1×6	18.5	52	40	66	51	608	377
3×16+1×10	21.1	69	54	86	66	876	503
3×25+1×16	25.0	93	72	111	86	1304	714
3×35+1×16	27.1	113	88	134	104	1719	856
3×50+1×25	32.4	141	110	163	126	2102	1018
3×70+1×35	36.1	180	139	203	156	2809	1289
3×95+1×50	40.2	221	172	242	188	3769	1703
3×120+1×70	45.1	258	201	276	214	4748	2063
3×150+1×70	46.8	298	231	310	240	5707	2490
3×185+1×95	53.9	343	267	349	271	7127	3106
3×240+1×120	63.3	408	316	406	315	9109	3891
3×300+1×150	64.1	479	371	462	357	11888	5083
3×400+1×185	78.2	553	429	527	409	17064	



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0.6/1kV

标称截面 Nominal cross section (mm ²)	电缆参考 外径 Reference overall diameter of cable (mm)	允许载流量 Remissible Ampacity (A)				成品近似重量 Reference weight of cable (kg/km)	
		空气中敷设 In air		埋地敷设 In ground			
		Cu	Al	Cu	Al	Cu	Al
4×4	14.9	30	24	38	30	399	239
4×6	16.1	38	30	48	38	436	286
4×10	19.3	53	41	66	51	669	408
4×16	21.8	70	54	86	68	953	539
4×25	26.0	94	73	112	86	1374	718
4×35	28.7	116	90	135	105	1810	899
4×50	29.5	139	108	161	125	2312	1082
4×70	33.0	177	136	202	155	3105	1381
4×95	38.1	217	169	240	186	4179	1836
4×120	41.1	254	197	274	213	5185	2199
4×150	45.8	294	228	309	239	6414	2720
4×185	50.5	337	262	346	269	7901	3365
4×240	55.7	401	311	403	313	10249	
4×300	63.4	470	364	459	355	13365	
4×400	83.5	557	432	529	410	18307	

标称截面 Nominal cross section (mm ²)	电缆参考外径 Reference overall diameter of cable (mm)	允许载流量 Remissible Ampacity (A)		成品近似重量 Reference weight of cable (kg/km)
		空气中敷设 In air	埋地敷设 In ground	
5×4	16.2	31	39	403
5×6	17.5	39	49	520
5×10	21.0	54	67	811
5×16	23.8	72	87	1156
5×25	28.5	96	111	1778
5×35	31.3	118	134	2348
5×50	37.0	144	159	3129
5×70	42.0	186	199	4357
5×95	49.1	227	235	5953
5×120	53.6	266	269	7298
5×150	59.3	303	302	8749
5×185	66.0	352	342	11144
5×240	74.6	420	398	14327
5×300	82.6	483	452	17823
4×4+1×2.5	15.7	31	39	375
4×6+1×4	17.3	39	49	494
4×10+1×6	20.4	53	67	749
4×16+1×10	23.3	71	87	1080
4×25+1×16	27.7	95	111	1651
4×35+1×16	30.6	116	133	2100
4×50+1×25	35.7	142	158	2843
4×70+1×35	40.3	183	198	3892
4×95+1×50	47.2	224	233	5372
4×120+1×70	51.7	262	268	6676
4×150+1×70	56.5	297	300	7975
4×185+1×95	63.0	345	341	10053
4×240+1×120	70.9	414	398	12924
4×300+1×150	78.6	481	452	16016

VV、VLV

0.6/1kV

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		空气中敷设 In air	埋地敷设 In ground	
3×4+2×2.5	15.3	30	38	351
3×6+2×4	17.0	39	48	473
3×10+2×6	19.7	53	66	691
3×16+2×10	22.0	71	87	1012
3×25+2×16	26.8	94	110	1536
3×35+2×16	28.9	115	132	1872
3×50+2×25	34.2	141	157	2596
3×70+2×35	38.8	181	197	3524
3×95+2×50	44.4	222	234	4776
3×120+2×70	49.0	259	266	6124
3×150+2×70	53.7	294	298	7113
3×185+2×95	60.0	340	338	9046
3×240+2×120	67.5	407	395	1158
3×300+2×150	75.1	474	449	14389



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0.6/1kV

标称截面 Nominal cross section (mm ²)	电缆参考外径 Reference overall diameter of cable (mm)	允许载流量 Remissible Ampacity (A)				成品近似重量 Reference weight of cable (kg/km)	
		空气中敷设 In air		埋地敷设 In ground			
		Cu	Al	Cu	Al		
10	13.0	76	59	97	75	314	250
16	14.0	101	78	127	99	389	287
25	15.7	132	103	166	129	527	366
35	16.9	161	125	202	156	648	426
50	18.7	191	148	240	186	813	511
70	20.5	242	187	302	232	1050	612
95	22.7	298	231	361	280	1371	765
120	24.4	347	270	415	323	1638	873
150	26.4	395	306	468	362	1959	1019
185	28.7	459	356	530	412	2395	1215
240	31.9	554	429	623	483	3333	1783
300	36.2	637	493	708	548	4091	2145
400	39.7	750	582	814	632	4972	2573
2×4	16.3	34	27	41	33	388	338
2×6	17.3	43	34	53	42	454	379
2×10	20.0	58	45	70	54	589	459
2×16	22.0	77	60	92	71	748	543
2×25	25.5	104	81	122	95	1029	704
2×35	27.8	129	100	149	116	1276	825
2×50	26.5	146	113	171	133	1487	871
2×70	30.3	188	144	214	165	2178	1315
2×95	34.2	237	184	267	207	2800	1626
2×120	36.5	274	213	306	238	3365	1869
2×150	40.0	316	245	346	268	4059	2209
2×185	43.8	368	286	394	306	4984	2610
3×4	17.0	29	23	36	28	450	375
3×6	18.1	37	29	45	36	538	425
3×10	20.8	50	38	60	46	745	551
3×16	23.1	66	51	79	61	983	675
3×25	26.9	90	70	105	82	1344	857
3×35	29.3	111	86	127	99	1702	1025
3×50	31.2	129	100	148	115	2344	1424
3×70	34.4	165	127	185	142	3017	1725
3×95	38.6	206	160	221	176	3913	2158
3×120	41.7	242	188	261	203	4741	2507
3×150	45.5	281	218	296	229	5790	3023
3×185	51.0	328	254	337	261	7013	3614
3×240	57.3	386	299	389	302	8930	4498
3×300	61.5	445	344	441	342	11350	5447
3×400	81.0	519	403	504	391	15825	

标称截面 Nominal cross section (mm ²)	电缆参考 外径 Reference overall diameter of cable (mm)	允许载流量 Remissible Ampacity (A)				成品近似重量 Reference weight of cable (kg/km)	
		空气中敷设 In air		埋地敷设 In ground			
		Cu	Al	Cu	Al		
3×4+1×2.5	17.6	30	24	37	29	495	405
3×6+1×4	19.1	38	30	46	37	608	471
3×10+1×6	21.8	52	40	64	49	834	603
3×16+1×10	25.5	70	55	84	65	1143	770
3×25+1×16	28.2	93	72	108	84	1607	1017
3×35+1×16	30.5	113	83	130	101	2060	1197
3×50+1×25	37.0	142	110	158	123	2795	1711
3×70+1×35	40.7	181	139	198	152	3581	2061
3×95+1×50	45.0	222	172	236	183	4676	2611
3×120+1×70	49.7	258	201	269	209	5751	3066
3×150+1×70	52.0	297	230	303	235	6788	3571
3×185+1×95	59.5	338	262	340	264	8371	4350
3×240+1×120	69.5	404	313	396	307	10523	5305
3×300+1×150	70.0	472	365	450	349	13572	6767
3×400+1×185	84.2	544	422	514	399	18398	
4×4	18.2	30	24	27	29	539	429
4×6	19.3	38	30	46	37	641	491
4×10	22.5	53	41	64	49	905	644
4×16	25.0	71	55	83	65	1218	804
4×25	29.2	94	73	108	84	1690	1034
4×35	33.5	117	91	132	102	2470	1568
4×50	34.3	140	109	157	122	2963	1733
4×70	37.8	178	137	196	151	3831	2167
4×95	43.1	219	170	234	182	5032	2689
4×120	46.3	255	198	268	208	6105	3119
4×150	51.0	294	227	301	233	7475	3781
4×185	56.2	333	258	338	262	9070	4534
4×240	61.3	397	308	393	305	11664	
4×300	69.3	464	359	448	347	15018	
4×400	90.1	548	425	515	400	20202	



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0.6/1kV

标称截面 Nominal cross section (mm ²)	电缆参考外径 Reference overall diameter of cable (mm)	允许载流量 Remissible Ampacity (A)		电缆参 考重量 Reference weight of cable (kg/km)	标称截面 Nominal cross section (mm ²)	电缆参考外径 Reference overall diameter of cable (mm)	允许载流量 Remissible Ampacity (A)		电缆参 考重量 Reference weight of cable (kg/km)
		空气中敷设 In air	埋地敷设 In ground				空气中敷设 In air	埋地敷设 In ground	
5×4	19.4	31	38	606	4×70+1×35	45.1	184	194	4850
5×6	20.7	39	47	739	4×95+1×50	52.2	224	229	6511
5×10	24.2	55	65	1072	4×120+1×70	56.9	260	262	7948
5×16	27.0	72	85	1450	4×150+1×70	61.9	296	294	9387
5×25	31.9	96	108	2143	4×185+1×95	68.6	329	333	11652
5×35	36.4	119	131	3098	4×240+1×120	77.1	408	388	14821
5×50	41.6	145	156	3992	4×300+1×150	85.0	469	442	18148
5×70	46.8	187	195	5356	3×4+2×2.5	18.5	30	37	543
5×95	54.1	225	230	7138	3×6+2×4	20.2	38	47	686
5×120	58.8	263	264	8616	3×10+2×6	22.9	53	64	935
5×150	64.7	301	296	10429	3×16+2×10	26.0	71	84	1296
5×180	71.6	348	335	12817	3×25+2×16	30.2	94	107	1880
5×240	80.8	409	387	15226	3×35+2×16	33.5	116	129	2554
5×300	89.0	472	439	20062	3×50+2×25	38.8	141	154	3396
4×4+1×2.5	10.9	31	37	572	3×70+2×35	43.6	182	193	4447
4×6+1×4	20.5	39	47	710	3×95+2×50	49.4	222	229	5848
4×10+1×6	23.6	54	65	1003	3×120+2×70	55.0	256	261	7349
4×16+1×10	26.5	72	84	1369	3×150+2×70	59.1	291	291	8454
4×25+1×16	31.1	95	108	2006	3×185+2×95	65.6	337	331	10568
4×35+1×16	35.2	117	130	2820	3×240+2×120	73.7	401	385	13362
4×50+1×25	40.3	143	155	3678	3×300+2×150	81.5	462	449	16419

注：单芯电缆铠装应采用非磁性材料或采用减少磁耗结构

Note: For single — core armored cable, you should adopt non — magnetic material as armor layer or the construction of cable which can reduce magnet loss.



额定电压 450/750V 及以下聚氯乙烯绝缘(屏蔽)电缆(电线) PVC INSULATED CABLE (WIRE) WITH RATED VOLTAGE UP TO AND INCLUDING 450/750V

(含普通型、阻燃型、耐火型、低烟低卤阻燃型)
(Including common cable, flame retardant cable, fire resistance cable and low smoke, low halogen, flame retardant cable)

1 产品名称

Type and Name

BV ——铜芯聚氯乙烯绝缘电缆 (电线)
BVR ——铜芯聚氯乙烯绝缘软电缆 (电线)
BVV ——铜芯聚氯乙烯绝缘聚氯乙烯护套圆型电缆
BVVB ——铜芯聚氯乙烯绝缘聚氯乙烯护套平型电缆
BV-105 ——铜芯耐热 105℃ 聚氯乙烯绝缘电线
RV ——铜芯聚氯乙烯绝缘连接软电缆 (电线)
RVB ——铜芯聚氯乙烯绝缘扁平型连接软电线
RVS ——铜芯聚氯乙烯绝缘绞型连接电线
RVV ——铜芯聚氯乙烯绝缘聚氯乙烯护套圆型连接软电缆
RVVP ——铜芯聚氯乙烯绝缘编织屏蔽聚氯乙烯护套软电缆
RVVB ——铜芯聚氯乙烯绝缘聚氯乙烯护套平型连接软电缆
RV-105 ——铜芯耐热 105℃ 聚氯乙烯绝缘连接软电线

注: 本厂除生产以上型号的聚氯乙烯绝缘电缆(电线), 本厂还可以生产阻燃型、耐火型(B系列)、低烟低卤阻燃型的电缆(电线), 即在以上型号的前面加上 ZA, ZB, ZC, ZD, N, DDZA, DDZB, DDZC, DDZD.

BV —— Copper core PVC insulated cable (electric wire)
BVR —— Copper core PVC insulated soft cable (electric wire)
BVV —— Copper-core PVC insulating PVC sheathed round cable
BVVB —— Copper-core PVC insulating PVC sheathed flat cable
RV- 105 —— Copper-core PVC insulated cable with 105℃ of heat resistance
RV —— Copper-core PVC insulated connection soft cable (electric wire)
RVB —— Copper core PVC insulated flat connection soft cable
RVS —— Copper core PVC insulated coil-buckling connection cable (electric wire)
RVV —— Copper core PVC insulated PVC sheathed round connection soft cable
RVVP —— RVVP —— Copper core PVC insulated,plaited and shielded PVC sheath soft cable
RVVB —— Copper core PVC insulated PVC sheathed flat connection soft cable
RV-105 —— Copper-core PVC insulated connection soft cable with 105℃ of heat resistance

Note: We can produce not only the above cable, but also flame retardant cable, fire resistance cable and low smoke, low halogen, flame-retardant cable, You can only plus ZA,ZB,ZC,ZD,N,DDZA,DDZB,DDZC, DDZD, before the type of common cable (wire).

2 用途

Purpose

适用于交流电压 450/750 及以下动力装置、日用电器、仪表及电信设备的的电缆电线。

阻燃型电缆 (电线) 的特点是不易着火或着火后火焰蔓延较慢并能控制在一定的范围内, 其使用在对阻燃性能要求较高的场合。

耐火型电缆 (电线) 的特点是电缆除了能在正常的工作条件下传输电力, 还可在燃烧的状况下仍能保持一定时间的安全动作, 其使用在对电缆耐火特性有较高要求的场合。可根据不同的要求选择不同类别的耐火电缆。

It applies to electrical appliances, instrument and telecom device with rated volage up to and including 450/750 volts.

The main features of the flame retardant cable or wire is hard to catch on fire or that the continuous burning of cables is very limited when it is on fire. It applies to places with special demands for flame retardant property.

Fire-resistance cable can operate normally for some time when it is burning except that it can transmit electrical power under normal condition. It is used in places with special demands for fire resistance property. clients can select any tape of cable for practical needs.

The main characteristics of low smoke, low halogen,



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低烟低卤电缆（电线）是具有低烟、低卤的特点而使电缆在燃烧时控制产生有毒的氯化氢气体和灰黑色的烟雾。电缆使用在人员较密集的场所。

3 产品标准

GB 5023-97、JB 8734-98（及企业标准）

阻燃、耐火，低烟低卤电缆（电线）的生产标准为国家标准 GB/T19666-2005。行业标准GA306-2007产品标准

4 产品主要特性

- 1、 U_0/U 为450/750V、300/500V、300/300V
- 2、电缆的长期允许温度
——105型号允许工作温度不超过150℃；
其它型号允许工作温度应不超过70℃；
- 3、电缆的敷设温度应不低于0℃；
允许弯曲半径：（B系列）
电缆外径（D）小于25mm 允许弯曲半径应不小于4D
电缆外径（D）大于25mm 及以上者允许弯曲半径应不小于6D。

flame retardant cable is low smoke emission and low release of HCL gas besides the property of flame retardant .It can be used in lpaces with special demands fordensity of smoke emission and the release value of HCL gas when cable is burnt.

Standards of the Products

GB 5023-97, JB 8734-98 (and enterprise standard)

Flame-retardant, fire resistance, low smoke low halogen cable (wire) of the national standards for the production of standard GB/T19666-2005. Industry-standard product GA306-2007 standard

Main Characteristics of Cable (wire)

1. Rated voltage U_0/U is 450/750 volt, 300/500 volt or 300/300volt.
2. Permissible continuous working temperature of cable conductor.
—— for type of cable RV-105 and BV-105, the temperature should be less than 105℃.
—— for others, the temperature should be not less than 70℃.
3. Ambient temperature should be not less than 0℃.and permissible bending radius of cable for fixed connecting should be as follows during installation.
—— for O.D. less than 25 millimeter,equal to or greater than 4 times O.D.
—— for O.D. not less than 25 millimeter,equal to or greater than 6 times O.D.



5 主要技术参数

Key Technical Parameter

BV (60227 IEC 01、05型)
(含阻燃、耐火型)

300/500V, 450/750V

电压级 Rated Voltage V	标称截面 Nominal crosssection mm ²	导体种类 Conductor type	平均外径上限 Upper limit of O.D. mm	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃ Ω/km	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃ MΩ · km	载流量 推荐值 Recommended ampacity A	电缆参考 重量 Reference weight of cable kg/km
300/500	0.5	1	2.4	36.0	0.015	13	8.3
	0.75	1	2.6	24.5	0.012	17	10.9
	0.75	2	2.8	24.5	0.014	17	11.8
	1.0	1	2.8	18.1	0.011	20	13.7
	1.0	2	3.0	18.1	0.013	20	14.8
450/750	1.5	1	3.3	12.1	0.011	25	20.0
	1.5	2	3.4	12.1	0.010	25	21.3
	2.5	1	3.9	7.41	0.010	34	31.5
	2.5	2	4.2	7.41	0.009	34	34.4
	4.0	1	4.4	4.61	0.0085	44	46.8
	4.0	2	4.8	4.61	0.0077	44	50.0
	6.0	1	4.9	3.08	0.0070	58	66.7
	6.0	2	5.4	3.08	0.0065	58	71.0
	10	2	6.8	1.83	0.0065	79	118.0
	16	2	8.0	1.15	0.0050	111	178.0
	25	2	9.8	0.727	0.0050	146	280.0
	35	2	11.0	0.524	0.0040	180	378
	50	2	13.0	0.387	0.0045	282	508
	70	2	15.0	0.268	0.0035	281	717
	95	2	17.0	0.193	0.0035	344	991
	120	2	19.0	0.153	0.0032	397	1228
	150	2	21.0	0.124	0.0032	456	1511
	185	2	23.5	0.0991	0.0032	519	1894
	240	2	26.5	0.0754	0.0032	592	2468
	300	2	29.5	0.0601	0.0030	685	3089
	400	2	33.5	0.0470	0.0028	799	3935



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BV-105 (60227IEC 07 型)

(含阻燃、耐火型)

300/500V, 450/750V

标称截面 Nominal crosssection	平均外径上限 Upper limit of O.D.	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃	载流量 推荐值 Recommended ampacity	电缆参考 重量 Reference weight of cable
mm ²	mm	Ω/km	MΩ · km	A	kg/km
0.5	2.4	36.0	0.015	13	9.3
0.75	2.6	24.5	0.013	17	12.0
1.0	2.8	18.1	0.012	20	15.0
1.5	3.3	12.1	0.011	25	20.0
2.5	3.9	7.41	0.009	34	32
4.0	4.4	4.60	0.008	44	47
6.0	4.9	3.08	0.007	58	69

BVR

(含阻燃、耐火型)

300/500V, 450/750V

标称截面 Nominal crosssection	平均外径上限 Upper limit of O.D.	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃	载流量 推荐值 Recommended ampacity	电缆参考 重量 Reference weight of cable
mm ²	mm	Ω/km	MΩ · km	A	kg/km
2.5	4.2	7.41	0.011	34	34
4.0	4.8	4.61	0.009	44	50
6.0	5.5	3.08	0.0084	58	72
10	7.2	1.83	0.0072	79	127
16	8.6	1.15	0.0062	111	184
25	10.2	0.727	0.0058	146	304
35	12.2	0.524	0.0052	180	399
50	14.2	0.387	0.0051	228	548
70	16.5	0.268	0.0045	281	739



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BVV (含阻燃、耐火型)

300/500V, 450/750V

标称截面 Nominal crosssection mm ²	导体种类 Conductor type	平均外径上限 Upper limit of O.D. mm	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃ Ω/km	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃ MΩ · km	载流量 推荐值 Recommended ampacity A	电缆参考 重量 Reference weight of cable kg/km
0.75		4.3	24.5	0.012	17	22
1.0		4.5	18.1	0.011	20	25
1.5	1	4.9	12.1	0.011	25	33
1.5	2	5.2	12.1	0.010	25	35
2.5	2	5.7	7.41	0.010	34	47
2.5	2	5.9	7.41	0.009	34	51
4.0	1	6.5	4.61	0.0085	44	66
4.0	2	6.8	4.61	0.0077	44	71
6.0	1	7.1	3.08	0.0070	58	88
6.0	2	7.3	3.08	0.0065	58	94
10	2	8.8	1.83	0.0065	79	146
2×1.5	1	10.0	12.1	0.011	20	110
2×1.5	2	10.5	12.1	0.010	20	117
2×2.5	1	11.5	7.41	0.010	27	151
2×2.5	2	12.0	7.41	0.009	27	164
2×4	1	12.5	4.61	0.0085	38	195
2×4	2	13.0	4.61	0.0077	38	211
2×6	1	13.5	3.08	0.0070	50	252
2×6	2	14.5	3.08	0.0065	50	272
2×10	2	17.5	1.83	0.0065	69	447
2×16	2	20.0	1.15	0.0052	92	618
2×25	2	24.0	0.727	0.0050	125	935
2×35	2	27.5	0.524	0.0044	141	1247
3×1.5	2	10.5	12.1	0.011	13	130
3×1.5	2	11.0	12.1	0.010	13	138
3×2.5	1	12.0	7.41	0.010	21	181
3×2.5	2	12.5	7.41	0.009	21	197
3×4	1	13.0	4.61	0.0085	27	241
3×4	2	13.5	4.61	0.0077	27	258
3×6	1	14.5	3.08	0.0070	34	328
3×6	2	15.5	3.08	0.0065	34	352
3×10	2	19.0	1.83	0.0065	55	559
3×16	2	21.5	1.15	0.0052	70	804
3×25	2	26.0	0.727	0.0050	92	1220
3×35	2	29.0	0.524	0.0044	125	1607
4×1.5	1	11.5	12.1	0.011	14	157
4×1.5	2	12.0	12.1	0.010	14	167
4×2.5	1	13.0	7.41	0.010	22	222
4×2.5	2	13.5	7.41	0.009	22	241
4×4	1	14.5	4.61	0.0085	27	309
4×4	2	15.0	4.61	0.0077	27	332
4×6	1	16.0	3.08	0.0070	35	420
4×6	2	17.5	3.08	0.0065	35	450
4×10	2	20.5	1.83	0.0065	57	698
4×16	2	23.5	1.15	0.0052	70	1011
4×25	2	28.5	0.727	0.0050	93	1564
4×35	2	32.0	0.524	0.0044	126	2037
5×1.5	1	12.0	12.1	0.011	14	186
5×1.5	2	12.5	12.1	0.010	14	198
5×2.5	1	14.0	7.41	0.010	22	266
5×2.5	2	14.5	7.41	0.009	22	289
5×4	1	16.0	4.61	0.0085	26	384
5×4	2	17.0	4.61	0.0077	26	412
5×6	1	17.5	3.08	0.0070	35	507
5×6	2	18.5	3.08	0.0065	35	542
5×10	2	22.0	1.83	0.0065	57	849
5×16	2	26.0	1.15	0.0052	71	1254
5×25	2	31.5	0.727	0.0050	93	1910
5×35	2	35.0	0.524	0.0044	125	2523



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RVVB (含阻燃、耐火型)

300/500V

标称截面 Nominal crosssection	导体种类 Conductor type	平均外径上限 Upper limit of O.D.	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃ Ω/km	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃ MΩ · km	载流量 推荐值 Recommended ampacity A	电缆参考 重量 Reference weight of cable kg/km
mm ²		mm				
2×0.75		4.6×7.1	24.5	0.012	13	42
2×1.0		4.8×7.4	18.1	0.011	16	49
2×1.5		5.3×8.3	12.1	0.011	20	65
2×2.5		6.2×10.1	7.41	0.010	27	97
2×4	2	6.9×11.5	4.61	0.008	38	140
2×6	2	7.8×13.0	3.08	0.0065	50	192
2×10	2	9.5×10	1.83	0.0065	69	306
3×0.75		4.6×9.6	24.5	0.012	9.5	60
3×1.0		4.8×10.1	18.1	0.011	11	70
3×1.5		5.3×11.7	12.1	0.011	13	95
3×2.5		6.2×14.0	7.41	0.010	21	142
3×4	2	7.1×16.3	4.61	0.008	27	213
3×6	2	7.8×18.2	3.08	0.0065	34	284
3×10	2	9.5×23.0	1.83	0.0065	55	457

RV (60227IEC 06、02 型) (含阻燃、耐火型)

300/500V, 450/750V

电压级 Rated voltage	标称截面 Nominal crosssection	平均外径上限 Upper limit of O.D.	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃ Ω/km	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃ MΩ · km	载流量 推荐值 Recommended ampacity A	电缆参考 重量 Reference weight of cable kg/km
V	mm ²	mm				
300/500	0.3	2.3	69.2	0.016	10	6.2
	0.4	2.5	48.2	0.014	11.7	8.0
	0.5	2.6	39.0	0.013	13.3	9.0
	0.75	2.8	26.0	0.011	17.0	12.2
	1.0	3.0	19.5	0.010	20.0	14.8
450/750	1.5	3.5	13.3	0.010	25.4	21.6
	2.5	4.2	7.98	0.009	34.5	34
	4.0	4.8	4.95	0.007	44.5	50
	6.0	6.4	3.30	0.006	58.3	75
	10	8.0	1.91	0.0056	79.5	132
	16	9.4	1.21	0.0046	111.0	197
	25	11.5	0.780	0.0044	146	289
	34	13.0	0.551	0.0038	180	380
	50	15.0	0.386	0.0037	225	549
	70	17.5	0.272	0.0032	280	754



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RVV (60227IEC 52、53 型) (含阻燃、耐火型)

300/300V , 300/500V

电压级 Rated voltage	标称截面 Number cores-section	平均外径上限 Upper limit of O.D.	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃	载流量 推荐值 Recommended ampacity	电缆参考 重量 Reference weight of cable kg/km
V	mm ²	mm	Ω/km	MΩ · km	A	
300/300	2×0.5	6.2	39.0	0.012	10	37
	2×0.75	6.6	26.0	0.010	13	47
	3×0.5	6.6	39.0	0.012	7.4	44
	3×0.75	7.0	26.0	0.010	9.5	58
300/500	2×0.75	7.6	26.0	0.011	13	58
	2×1.0	8.0	19.5	0.010	16	66
	2×1.5	9.0	13.3	0.010	20	89
	2×2.5	11.0	7.98	0.009	27.5	137
	3×0.75	8.0	26.0	0.011	9.5	70
	3×1.0	8.4	19.5	0.010	11.7	80
	3×1.5	9.8	13.3	0.010	12.7	112
	3×2.5	11.5	7.98	0.009	21	172
	4×0.75	8.6	26.0	0.011	10	84
	4×1.0	9.4	19.5	0.010	12	101
	4×1.5	11.0	13.3	0.010	13	141
	4×2.5	13.0	7.98	0.009	21	210
	5×0.75	9.6	26.0	0.011	10	103
	5×1.0	11.0	19.5	0.010	12	119
	5×1.5	12.0	13.3	0.010	13	172
	5×2.5	14.0	7.98	0.009	22	257



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RV- 90 (60227 IEC 08 型)

(含阻燃型)

300/300V、450/750V

标称截面 Number cores-section	平均外径上限 Upper limit of O.D.	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃ Ω/km	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃ MΩ · km	载流量 推荐值 Recommended ampacity A	电缆参考 重量 Reference weight of cable kg/km
mm ²	mm				
0.5	2.6	39.0	0.013	13.3	10.0
0.75	2.8	26.0	0.012	17.0	13.3
1.0	3.0	19.5	0.010	20.0	16.0
1.5	3.5	13.3	0.009	25.4	21.6
2.5	4.2	7.98	0.009	34.5	34.0
4	4.8	4.95	0.008	44.5	50.0
6	6.3	3.30	0.006	58.3	75.0

RVS

(含阻燃、耐火型)

300/300V

标称截面 Number cores-section	平均外径上限 Upper limit of O.D.	20℃ 最大 直流电阻 Maximum D.C.resistance at 20℃ Ω/km	70℃ 最小 绝缘电阻 Maximum insulation resistance at 70℃ MΩ · km	载流量 推荐值 Recommended ampacity A	电缆参考 重量 Reference weight of cable kg/km
mm ²	mm				
2×0.3	4.3	69.2	0.016	7.4	13.4
2×0.4	4.6	48.2	0.014	9.0	17
2×0.5	6.0	39.0	0.016	10	24
2×0.75	6.2	26.0	0.014	13	31



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

RVVP (含阻燃、耐火型)

300/300V, 300/500V

芯数× 标称截面 Number of cores ×Nominal cross section mm ²	电缆参 考外径上限 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km
2×0.5	6.0	48.3	39.0	0.012
2×0.75	7.0	63.2	26.0	0.010
2×1.0	7.5	73.0	19.5	0.010
2×1.5	8.4	92.9	13.3	0.009
2×2.5	9.0	136.5	7.98	0.008
2×4	11.8	209.5	4.95	0.007
2×6	13.4	263.2	3.30	0.006
3×0.5	6.6	58.3	39.0	0.012
3×0.75	7.3	76.9	26.0	0.010
3×1.0	8.1	87.6	19.5	0.010
3×1.5	9.1	117.6	13.3	0.009
3×2.5	9.8	169.1	7.98	0.008
3×4	12.7	247.7	4.95	0.007
3×6	14.3	318.7	3.30	0.006
4×0.5	7.3	65.7	39.0	0.012
4×0.75	8.7	88.3	26.0	0.010
4×1.0	9.2	105.3	19.5	0.010
4×1.5	10.8	145.3	13.3	0.009
4×2.5	11.8	212.3	7.98	0.008
4×4	14.2	295.3	4.95	0.007
4×6	17.4	388.6	3.30	0.006

芯数× 标称截面 Number of cores ×Nominal cross section mm ²	电缆参 考外径上限 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km
5×0.5	9.0	80.5	39.0	0.012
5×0.75	10.1	121.6	26.0	0.010
5×1.0	10.5	128.4	19.5	0.010
5×1.5	12.8	178.1	13.3	0.009
5×2.5	13.8	267.8	7.98	0.008
5×4	15.9	378.8	4.95	0.007
5×6	17.9	496.2	3.30	0.006
7×0.5	10.5	103.8	39.0	0.012
7×0.75	11.9	141.8	26.0	0.010
7×1.0	12.5	164.3	19.5	0.010
7×1.5	15.0	227.1	13.3	0.009
7×2.5	16.7	338.0	7.98	0.008
7×4	19.4	475.0	4.95	0.007
7×6	21.8	639.8	3.30	0.006
10×0.5	12.9	149.1	39.0	0.012
10×0.75	15.4	195.9	26.0	0.010
10×1.0	15.8	243.2	19.5	0.010
10×1.5	19.4	321.3	13.3	0.009
10×2.5	22.6	492.6	7.98	0.008
10×4	26.3	683.1	4.95	0.007

注：1、耐火型及低烟低卤型的电缆（电线）的外径、绝缘电阻、载流量、参考重量等项目数据与表列的有所变动。
2、括号中的型号均执行GB/T5023-2008标准。

Note: 1, fire-resistant low smoke low halogen type and the type of cable (wire) diameter, insulation resistance, Carrying capacity, the weight of such items as reference data and a change in the table.
2, the models in parentheses are the standard implementation of GB/T5023-2008.



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广东省名牌产品



广东省著名商标

额定电压450/750V及以下聚氯乙烯绝缘(屏蔽)聚氯乙烯护套控制电缆

PVC INSULED AND PVC SHEATHED CONTROL CABLE WITH RATED VOLTAGE 450/750V

(含普通型、阻燃型、耐火型、低烟低卤阻燃型)

(Including common cable, flame retardant cable, fire resistance cable and low smoke, low halogen, flame retardant cable)

1 产品特点及用途

Characteristics and Applications of the products

聚氯乙烯绝缘和护套控制电缆适用于交流额定电压 U_0/U 为 450/750V 及以下控制、监控回路及保护线路等场合，作为电气装备之间的控制接线。

阻燃控制电缆的主要特点是不易着火或着火时延燃仅局限在一定范围内，适用于对阻燃性能要求较高的场合。

耐火控制电缆的主要特点是电缆除了能在正常的工作条件下传输电力外，电缆在着火燃烧时仍能保持一定时间的正常运行，适用于对耐火特性有要求的场合。

低烟低卤阻燃控制电缆的特点是电缆不仅具备阻燃性能，而且具有较低的发烟性、低氯化氢释出量，适用于那些对电缆燃烧的烟浓度及氯化氢气体释出量有一定要求的场合。

PVC insulated PVC sheathed control cable is used to connect electronic equipment. It applies to controlling, monitoring and protective system with A.C. rated voltage U_0/U up to and including 450/750 volts.

The main features of the flame retardant PVC controlled cable is difficult to catch on fire or that the continuous burning of cables is very limited when it is on fire. It applies to the places with special demands of flame retardant property.

Fireproof cable can operate normally for some time when it is burning except that it can transmit electrical power under normal condition. It is used in the places necessary to resist fire.

The characteristics of low-smoke low-halogen fire resistant control cable are not only flame resistant, but also of low smoke and low release of hydrogen chloride, applicable for applications demanding for smoke thickness upon burning of cable and for released quantity of hydrogen chloride gas.

2 产品标准

Standards of the Products

本产品按 GB/T9330-2008 标准组织生产，还可按用户要求的其它标准生产。

低烟低卤阻燃型电缆按 GB/T9330-2008、GB/T19666-2005 标准生产。

阻燃、耐火型产品、在执行 GB/T9330-2008 的同时，执行 GB/T19666-2005、GA306-2007。

The cable is manufactured in accordance with the standards of GB/T9330-2008. It can also be produced according to special requirements put forward by clients.

Low Smoke low halogen flame retardant cable according to standard GB/T9330-2008, GB/T19666-2005 production.

Flame-retardant, fire-resistant products, in the implementation of the GB/T9330-2008 At the same time, the implementation of GB/T19666-2005, GA306-2007.



3 产品型号

Type

● 普通型电缆型号

- KVV ——铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆
KVVP₂ ——铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制
电缆
KVVP ——铜芯聚氯乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控
制电缆
KVV₂₂ ——铜芯聚氯乙烯绝缘聚氯乙烯护套铜带铠装控制电缆
KVVP₂₋₂₂ ——铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽铜带铠
装控制电缆
KVVR ——铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆

● 阻燃型电缆型号

在普通型控制电缆型号前加 ZR。

● 耐火型电缆型号

在普通型控制电缆型号前加 NH。

● 低烟低卤阻燃型电缆型号

在普通型控制电缆型号前加 DD。

● Type of the common cable:

- KVV —— copper core PVC insulated PVC sheathed control
cable
KVVP₂ —— copper core PVC insulated PVC sheathed cop-
per tape screen control cable
KVVP —— copper core PVC insulated and sheathed copper-
wire shield control cable
KVV₂₂ —— copper core PVC insulated PVC sheathed steel
tape armored control cable
KVVP₂₋₂₂ —— copper core PVC insulated PVC sheathed cop-
per tape screen, steel tape armored control cable
KVVR —— copper core PVC insulated and PVC cover
control soft cable

● Type of the flame retardant cable:

ZR before the model of common control cable.

● Type of the fire resistance cable:

plus NH before the type of common control cable.

● Type of the low smoke, low halogen, flame retardant cable:

plus DD before the type of common control cable.

4 产品使用特性

Operating Characteristics

- 1、额定电压U₀/U 为450/750V。
- 2、电缆导体的长期允许工作温度为70℃
- 3、电缆敷设温度应不低于0℃，推荐的允许弯曲半
径如下：

- 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。

- (1) Rated voltage U₀/U is 450/750 volts.
- (2) Permissible continuous working temperature of cable
conductor is 70℃.
- (3) Ambient temperature is not lower than 0℃ and its
minimum bending radius is as follows when cable is installed:
 - for non-armored cable-not less than 6times O.D.
 - for armored or copper tape shielded cable-not less than
12times.
 - for shielded flexible cable -not less than 6times O.D.

Note: Denotes the overall diameter of cable, unit: millimeter.



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5 主要技术参数

Key Technical Parameter

KVV (含阻燃、耐火型)

芯数× 标称截面 Number of cores × Nominal cross section mm ²	导体 种类 Kind of conductor	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km
2×0.75	1	7.2	61	24.5	0.012
2×0.75	2	7.5	65	24.5	0.014
2×1.0	1	7.5	69	18.1	0.011
2×1.0	2	7.8	74	18.1	0.013
2×1.5	1	8.4	90	12.1	0.011
2×1.5	2	8.8	95	12.1	0.010
2×2.5	1	9.6	124	7.41	0.010
2×2.5	2	10.2	135	7.41	0.009
2×4	1	10.6	164	4.61	0.0085
2×4	2	11.2	176	4.61	0.0077
2×6	1	11.6	215	3.08	0.0070
2×6	2	12.3	230	3.08	0.0065
2×10	1	15.7	377	1.83	0.0065
3×0.75	1	7.5	69	24.5	0.012
3×0.75	2	7.8	74	24.5	0.014
3×1.0	1	7.9	80	18.1	0.011
3×1.0	2	8.2	85	18.1	0.013
3×1.5	1	8.9	105	12.1	0.011
3×1.5	2	9.3	111	12.1	0.010
3×2.5	1	10.2	149	7.41	0.010
3×2.5	2	10.7	160	7.41	0.009
3×4	1	11.2	201	4.61	0.0085
3×4	2	11.8	213	4.61	0.0077
3×6	1	12.9	285	3.08	0.0070
3×6	2	13.7	302	3.08	0.0065
3×10	1	16.6	467	1.83	0.0065
4×0.75	1	8.1	85	24.5	0.012
4×0.75	2	8.4	90	24.5	0.014
4×1.0	1	8.5	99	18.1	0.011
4×1.0	2	8.9	105	18.1	0.013
4×1.5	1	9.6	131	12.1	0.011
4×1.5	2	10.0	139	12.1	0.010
4×2.5	1	11.1	188	7.41	0.010
4×2.5	2	11.7	203	7.41	0.009
4×4	1	12.8	274	4.61	0.0085
4×4	2	13.6	292	4.61	0.0077
4×6	1	14.1	365	3.08	0.0070
4×6	2	14.9	387	3.08	0.0065
4×10	1	18.2	606	1.83	0.0065
5×0.75	1	8.7	101	24.5	0.012
5×0.75	2	9.1	108	24.5	0.014
5×1.0	1	9.2	119	18.1	0.011
5×1.0	2	9.6	127	18.1	0.013
5×1.5	1	10.4	159	12.1	0.011
5×1.5	2	10.9	169	12.1	0.010
5×2.5	1	12.7	247	7.41	0.010
5×2.5	2	13.4	267	7.41	0.009
5×4	1	14.0	335	4.61	0.0085
5×4	2	14.8	357	4.61	0.0077
5×6	1	15.3	448	3.08	0.0070
4×6	2	16.3	477	3.08	0.0065
5×10	1	20.4	769	1.83	0.0065

芯数× 标称截面 Number of cores × Nominal cross section mm ²	导体 种类 Kind of conductor	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km
7×0.75	1	9.4	125	24.5	0.012
7×0.75	2	9.8	134	24.5	0.014
7×1.0	1	9.9	148	18.1	0.011
7×1.0	2	10.4	158	18.1	0.013
7×1.5	1	11.3	201	12.1	0.011
7×1.5	2	11.8	213	12.1	0.010
7×2.5	1	13.7	313	7.41	0.010
7×2.5	2	14.5	338	7.41	0.009
7×4	1	15.1	431	4.61	0.0085
7×4	2	16.0	458	4.61	0.0077
7×6	1	16.7	584	3.08	0.0070
7×6	2	17.8	619	3.08	0.0065
7×10	1	22.2	1005	1.83	0.0065
8×0.75	1	10.1	144	24.5	0.012
8×0.75	2	10.5	154	24.5	0.014
8×1.0	1	10.6	170	18.1	0.011
8×1.0	2	11.1	182	18.1	0.013
8×1.5	1	12.8	249	12.1	0.011
8×1.5	2	13.3	264	12.1	0.010
8×2.5	1	14.8	362	7.41	0.010
8×2.5	2	15.6	391	7.41	0.009
8×4	1	16.3	498	4.61	0.0085
8×4	2	17.3	531	4.61	0.0077
8×6	1	18.4	692	3.08	0.0070
8×6	2	19.6	735	3.08	0.0065
8×10	1	24.1	1168	1.83	0.0065
10×0.75	1	11.6	176	24.5	0.012
10×0.75	2	12.2	189	24.5	0.014
10×1.0	1	12.9	226	18.1	0.011
10×1.0	2	13.6	242	18.1	0.013
10×1.5	1	14.8	306	12.1	0.011
10×1.5	2	15.5	325	12.1	0.010
10×2.5	1	17.2	447	7.41	0.010
10×2.5	2	18.2	483	7.41	0.009
10×4	1	19.5	634	4.61	0.0085
10×4	2	20.7	677	4.61	0.0077
10×6	1	21.5	858	3.08	0.0070
10×6	2	23.0	912	3.08	0.0065
10×10	1	28.4	1452	1.83	0.0065
12×0.75	1	12.6	212	24.5	0.012
12×0.75	2	13.2	227	24.5	0.014
12×1.0	1	13.3	251	18.1	0.011
12×1.0	2	13.9	269	18.1	0.013
12×1.5	1	15.2	342	12.1	0.011
12×1.5	2	15.9	363	12.1	0.010
12×2.5	1	17.7	504	7.41	0.010
12×2.5	2	18.8	544	7.41	0.009
12×4	1	20.1	720	4.61	0.0085
12×4	2	21.3	766	4.61	0.0077
12×6	1	22.2	980	3.08	0.0070
12×6	2	23.7	1039	3.08	0.0065



深圳市金环宇电线电缆有限公司 Shenzhen Gold Universal Wire & Cable Co., Ltd.

KVV (含阻燃、耐火型)

芯数× 标称截面 Number of cores ×Nominal cross section mm ²	导体 种类 Kind of conductor	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km	芯数× 标称截面 Number of cores ×Nominal cross section mm ²	导体 种类 Kind of conductor	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km
14×0.75	1	13.2	240	24.5	0.012	30×0.75	1	17.6	450	24.5	0.012
14×0.75	2	13.8	256	24.5	0.014	30×0.75	2	18.6	483	24.5	0.014
14×1.0	1	13.9	285	18.1	0.011	30×1.0	1	19.1	560	18.1	0.011
14×1.0	2	14.6	305	18.1	0.013	30×1.0	2	20.1	601	18.1	0.013
14×1.5	1	15.9	390	12.1	0.011	30×1.5	1	22.1	778	12.1	0.011
14×1.5	2	16.7	413	12.1	0.010	30×1.5	2	23.2	824	12.1	0.010
14×2.5	1	18.6	577	7.41	0.010	30×2.5	1	26.0	1167	7.41	0.010
14×2.5	2	19.8	623	7.41	0.009	30×2.5	2	27.6	1262	7.41	0.009
14×4	1	21.1	826	4.61	0.0085	37×0.75	1	19.4	554	24.5	0.012
14×4	2	22.4	880	4.61	0.0077	37×0.75	2	20.4	594	24.5	0.014
14×6	1	23.4	1129	3.08	0.0070	37×1.0	1	20.5	668	18.1	0.011
14×6	2	25.0	1197	3.08	0.0065	37×1.0	2	21.6	717	18.1	0.013
16×0.75	1	13.8	268	24.5	0.012	37×1.5	1	23.7	933	12.1	0.011
16×0.75	2	14.5	287	24.5	0.014	37×1.5	2	25.0	989	12.1	0.010
16×1.0	1	14.6	320	18.1	0.011	37×2.5	1	28.0	1408	7.41	0.010
16×1.0	2	15.3	343	18.1	0.013	37×2.5	2	29.8	1523	7.41	0.009
16×1.5	1	16.7	440	12.1	0.011	44×0.75	1	21.6	655	24.5	0.012
16×1.5	2	17.6	466	12.1	0.010	44×0.75	2	22.7	703	24.5	0.014
16×2.5	1	20.0	671	7.41	0.010	44×1.0	1	22.9	791	18.1	0.011
16×2.5	2	21.3	725	7.41	0.009	44×1.0	2	24.2	850	18.1	0.013
19×0.75	1	14.5	304	24.5	0.012	44×1.5	1	26.6	1107	12.1	0.011
19×0.75	2	15.2	326	24.5	0.014	44×1.5	2	28.0	1174	12.1	0.010
19×1.0	1	15.3	364	18.1	0.011	44×2.5	1	32.1	1717	7.41	0.010
19×1.0	2	16.1	390	18.1	0.013	44×2.5	2	34.2	1857	7.41	0.009
19×1.5	1	17.6	503	12.1	0.011	48×0.75	1	21.9	697	24.5	0.012
19×1.5	2	18.5	533	12.1	0.010	48×0.75	2	23.1	748	24.5	0.014
19×2.5	1	21.1	770	7.41	0.010	48×1.0	1	23.3	845	18.1	0.011
19×2.5	2	22.4	832	7.41	0.009	48×1.0	2	24.6	907	18.1	0.013
24×0.75	1	16.7	380	24.5	0.012	48×1.5	1	27.0	1184	12.1	0.011
24×0.75	2	17.6	408	24.5	0.014	48×1.5	2	28.5	1256	12.1	0.010
24×1.0	1	17.7	457	18.1	0.011	48×2.5	1	32.6	1840	7.41	0.010
24×1.0	2	18.6	490	18.1	0.013	48×2.5	2	34.7	1989	7.41	0.009
24×1.5	1	20.9	652	12.1	0.011	52×0.75	1	22.5	747	24.5	0.012
24×1.5	2	21.9	691	12.1	0.010	52×0.75	2	23.7	703	24.5	0.014
24×2.5	1	24.5	971	7.41	0.010	52×1.0	1	23.9	907	18.1	0.011
24×2.5	2	26.1	1105	7.41	0.009	52×1.0	2	25.2	974	18.1	0.013
27×0.75	1	17.1	412	24.5	0.012	52×1.5	1	27.8	1274	12.1	0.011
27×0.75	2	17.9	441	24.5	0.014	52×1.5	2	29.3	1350	12.1	0.010
27×1.0	1	18.1	463	18.1	0.011	52×2.5	1	33.5	1980	7.41	0.010
27×1.0	2	19.0	532	18.1	0.013	52×2.5	2	35.7	2141	7.41	0.009
27×1.5	1	21.3	709	12.1	0.011	61×0.75	1	23.8	857	24.5	0.012
27×1.5	2	22.4	751	12.1	0.010	61×0.75	2	25.1	906	24.5	0.014
27×2.5	1	25.1	1061	7.41	0.010	61×1.0	1	25.3	1043	18.1	0.011
27×2.5	2	26.7	1147	7.41	0.009	61×1.0	2	26.7	1120	18.1	0.013
						61×1.5	1	30.1	1510	12.1	0.011
						61×1.5	2	31.7	1600	12.1	0.010
						61×2.5	1	36.0	2320	7.41	0.010
						61×2.5	2	38.3	2509	7.41	0.009



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KVVP (含阻燃、耐火型)

芯数× 标称截面 Number of cores ×Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km
2×0.75	9.5	70.2	24.5	0.014
2×1.0	10.2	84.1	18.1	0.013
2×1.5	11.2	109	12.1	0.010
2×2.5	12.0	152	7.41	0.009
2×4	13.7	190	4.61	0.007
2×6	14.9	252	3.08	0.0065
2×10	18.0	405	1.83	0.0065
3×0.75	10.0	79	24.5	0.014
3×1.0	10.2	92	18.1	0.013
3×1.5	11.5	130	12.1	0.010
3×2.5	13.0	180	7.41	0.009
3×4	14.3	233	4.61	0.007
3×6	16.2	342	3.08	0.0065
3×10	19.0	494	1.83	0.0065
4×0.75	10.4	102	24.5	0.014
4×1.0	11.0	129	18.1	0.013
4×1.5	12.0	156	12.1	0.010
4×2.5	14.3	223	7.41	0.009
4×4	15.9	318	4.61	0.007
4×6	17.3	417	3.08	0.0065
4×10	21.2	641	1.83	0.0065
5×0.75	11.0	123	24.5	0.014
5×1.0	11.3	142	18.1	0.013
5×1.5	13.0	187	12.1	0.010
5×2.5	15.9	293	7.41	0.009
5×4	17.0	387	4.61	0.007
5×6	18.5	512	3.08	0.0065
5×10	23.3	809	1.83	0.0065

芯数× 标称截面 Number of cores ×Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km
7×0.75	12.0	151	24.5	0.014
7×1.0	12.4	178	18.1	0.013
7×1.5	14.0	235	12.1	0.010
7×2.5	16.9	266	7.41	0.009
7×4	18.1	491	4.61	0.0077
7×6	19.9	662	3.08	0.0065
7×10	25.1	1055	1.83	0.0065
8×0.75	13.0	174	24.5	0.014
8×1.0	13.7	204	18.1	0.013
8×1.5	16.0	287	12.1	0.010
8×2.5	17.9	421	7.41	0.009
8×4	19.2	563	4.61	0.007
10×0.75	14.9	207	24.5	0.014
10×1.0	15.9	265	18.1	0.013
10×1.5	17.9	355	12.1	0.010
10×2.5	20.3	515	7.41	0.009
12×0.75	15.0	252	24.5	0.014
12×1.0	16.1	297	18.1	0.013
12×1.5	18.1	393	12.1	0.010
12×2.5	21.0	579	7.41	0.009
14×0.75	16.4	284	24.5	0.014
14×1.0	16.9	337	18.1	0.013
14×1.5	19.1	450	12.1	0.010
14×2.5	21.7	663	7.41	0.009



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KVVP (含阻燃、耐火型)

芯数× 标称截面 Number of cores ×Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km	芯数× 标称截面 Number of cores ×Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ·km
16×0.75	15.4	315	24.5	0.014	37×0.75	22.5	637	24.5	0.014
16×1.0	15.9	378	18.1	0.013	37×1.0	23.2	762	18.1	0.013
16×1.5	18.3	506	12.1	0.010	37×1.5	26.7	1039	12.1	0.010
16×2.5	21.5	770	7.41	0.009	37×2.5	30.9	1578	7.41	0.009
19×0.75	17.0	361	24.5	0.014	44×0.75	24.7	748	24.5	0.014
19×1.0	18.0	427	18.1	0.013	44×1.0	25.5	895	18.1	0.013
19×1.5	20.7	573	12.1	0.010	44×1.5	29.5	1229	12.1	0.010
19×2.5	24.1	877	7.41	0.009	44×2.5	34.9	1917	7.41	0.009
24×0.75	18.9	446	24.5	0.014	48×0.75	25.0	791	24.5	0.014
24×1.0	20.5	535	18.1	0.013	48×1.0	25.9	957	18.1	0.013
24×1.5	23.9	736	12.1	0.010	48×1.5	29.9	1309	12.1	0.010
24×2.5	27.5	1155	7.41	0.009	48×2.5	35.4	2049	7.41	0.009
27×0.75	20.2	481	24.5	0.014	52×0.75	25.6	853	24.5	0.014
27×1.0	20.9	574	18.1	0.013	52×1.0	26.5	1027	18.1	0.013
27×1.5	23.9	796	12.1	0.010	52×1.5	30.7	1405	12.1	0.010
27×2.5	27.5	1199	7.41	0.009	52×2.5	36.3	2204	7.41	0.009
30×0.75	20.8	523	24.5	0.014	61×0.75	26.9	1054	24.5	0.014
30×1.0	21.9	644	18.1	0.013	61×1.0	27.8	1172	18.1	0.013
30×1.5	25.1	869	12.1	0.010	61×1.5	32.9	1657	12.1	0.010
30×2.5	28.9	1315	7.41	0.009	61×2.5	38.3	2575	7.41	0.009



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KVVP₂ (含阻燃、耐火型)

芯数× 标称截面 Number of cores × Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ · km
4×0.75	9.5	130	24.5	0.012
4×1.0	9.9	146	18.1	0.011
4×1.5	11.0	185	12.1	0.011
4×2.5	13.1	267	7.41	0.010
4×4	14.2	344	4.61	0.0085
4×6	15.5	442	3.08	0.0070
4×10	20.0	725	1.83	0.0065
5×0.75	10.1	150	24.5	0.012
5×1.0	10.6	169	18.1	0.011
5×1.5	12.4	234	12.1	0.011
5×2.5	14.1	317	7.41	0.010
5×4	15.4	412	4.61	0.0085
5×6	16.7	533	3.08	0.0070
5×10	21.8	882	1.83	0.0065
7×0.75	10.8	177	24.5	0.012
7×1.0	11.3	203	18.1	0.011
7×1.5	13.3	281	12.1	0.011
7×2.5	15.1	389	7.41	0.010
7×4	16.5	514	4.61	0.0085
7×6	18.1	676	3.08	0.0070
7×10	23.6	1128	1.83	0.0065
8×0.75	12.1	216	24.5	0.012
8×1.0	12.6	246	18.1	0.011
8×1.5	14.2	319	12.1	0.011
8×2.5	16.2	443	7.41	0.010
8×4	18.1	605	4.61	0.0085
8×6	19.8	794	3.08	0.0070
8×10	25.5	1302	1.83	0.0065
10×0.75	13.7	259	24.5	0.012
10×1.0	14.3	297	18.1	0.011
10×1.5	16.1	388	12.1	0.011
10×2.5	19.0	559	7.41	0.010
10×4	20.9	742	4.61	0.0085
10×6	22.9	977	3.08	0.0070
10×10	29.8	1611	1.83	0.0065
12×0.75	14.0	281	24.5	0.012
12×1.0	14.7	324	18.1	0.011
12×1.5	16.6	426	12.1	0.011
12×2.5	19.5	619	7.41	0.010
12×4	21.5	831	4.61	0.0085
12×6	23.6	1104	3.08	0.0070

芯数× 标称截面 Number of cores × Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ · km
14×0.75	14.6	312	24.5	0.012
14×1.0	15.3	361	18.1	0.011
14×1.5	17.3	478	12.1	0.011
14×2.5	20.4	699	7.41	0.010
14×4	22.5	943	4.61	0.0085
14×6	24.8	1259	3.08	0.0070
16×0.75	15.2	344	24.5	0.012
16×1.0	16.0	400	18.1	0.011
16×1.5	18.1	533	12.1	0.011
16×2.5	21.4	781	7.41	0.010
19×0.75	15.9	384	24.5	0.012
19×1.0	16.7	449	18.1	0.011
19×1.5	19.4	618	12.1	0.011
19×2.5	22.5	887	7.41	0.010
24×0.75	18.1	473	24.5	0.012
24×1.0	19.5	572	18.1	0.011
24×1.5	22.3	768	12.1	0.011
24×2.5	25.9	1108	7.41	0.010
27×0.75	18.9	523	24.5	0.012
27×1.0	19.9	614	18.1	0.011
27×1.5	22.7	827	12.1	0.011
27×2.5	26.5	1201	7.41	0.010
30×0.75	19.5	565	24.5	0.012
30×1.0	20.5	666	18.1	0.011
30×1.5	23.4	900	12.1	0.011
30×2.5	27.4	1313	7.41	0.010
37×0.75	20.8	661	24.5	0.012
37×1.0	21.9	782	18.1	0.011
37×1.5	25.1	1065	12.1	0.011
37×2.5	30.0	1605	7.41	0.010
44×0.75	23.0	775	24.5	0.012
44×1.0	24.3	919	18.1	0.011
44×1.5	28.0	1256	12.1	0.011
44×2.5	33.5	1896	7.41	0.010
48×0.75	23.4	819	24.5	0.012
48×1.0	24.7	974	18.1	0.011
48×1.5	28.4	1336	12.1	0.011
48×2.5	34.0	2022	7.41	0.010
52×0.75	23.9	873	24.5	0.012
52×1.0	25.3	1040	18.1	0.011
52×1.5	29.8	1469	12.1	0.011
52×2.5	35.3	2198	7.41	0.010
61×0.75	25.2	990	24.5	0.012
61×1.0	26.7	1184	18.1	0.011
61×1.5	31.4	1677	12.1	0.011
61×2.5	37.4	2520	7.41	0.010



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KVVP₂₋₂₂ (含阻燃、耐火型)

芯数× 标称截面 Number of cores ×Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ · km
4×2.5	15.0	355	7.41	0.010
4×4	16.2	439	4.61	0.0085
4×6	17.4	545	3.08	0.0070
4×10	21.9	855	1.83	0.0065
5×2.5	16.0	410	7.41	0.010
5×4	17.3	514	4.61	0.0085
5×6	19.1	661	3.08	0.0070
5×10	23.7	1023	1.83	0.0065
7×0.75	13.4	270	24.5	0.012
7×1.0	13.8	299	18.1	0.011
7×1.5	15.2	370	12.1	0.011
7×2.5	17.1	489	7.41	0.010
7×4	18.5	624	4.61	0.0085
7×6	20.4	813	3.08	0.0070
7×10	25.5	1281	1.83	0.0065
8×0.75	14.0	297	24.5	0.012
8×1.0	14.6	331	18.1	0.011
8×1.5	16.1	413	12.1	0.011
8×2.5	18.1	550	7.41	0.010
8×4	20.1	723	4.61	0.0085
8×6	21.7	922	3.08	0.0070
8×10	27.4	1466	1.83	0.0065
10×0.75	15.6	351	24.5	0.012
10×1.0	16.2	392	18.1	0.011
10×1.5	18.1	494	12.1	0.011
10×2.5	20.9	683	7.41	0.010
10×4	22.8	878	4.61	0.0085
10×6	24.9	1126	3.08	0.0070
10×10	33.5	2144	1.83	0.0065
12×0.75	15.9	375	24.5	0.012
12×1.0	16.6	422	18.1	0.011
12×1.5	18.5	536	12.1	0.011
12×2.5	21.5	747	7.41	0.010
12×4	23.4	970	4.61	0.0085
12×6	25.5	1256	3.08	0.0070
14×0.75	16.5	409	24.5	0.012
14×1.0	17.2	763	18.1	0.011
14×1.5	19.7	610	12.1	0.011
14×2.5	22.4	831	7.41	0.010
14×4	24.4	1089	4.61	0.0085
14×6	26.7	1419	3.08	0.0070

芯数× 标称截面 Number of cores ×Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ · km
16×0.75	17.2	445	24.5	0.012
16×1.0	17.9	506	18.1	0.011
16×1.5	20.5	670	12.1	0.011
16×2.5	23.4	920	7.41	0.010
19×0.75	17.8	489	24.5	0.012
19×1.0	19.0	576	18.1	0.011
19×1.5	21.3	744	12.1	0.011
19×2.5	24.4	1032	7.41	0.010
24×0.75	20.5	611	24.5	0.012
24×1.0	21.4	699	18.1	0.011
24×1.5	24.2	912	12.1	0.011
24×2.5	27.9	1275	7.41	0.010
27×0.75	20.8	646	24.5	0.012
27×1.0	21.8	743	18.1	0.011
27×1.5	24.6	974	12.1	0.011
27×2.5	28.4	1371	7.41	0.010
30×0.75	21.4	692	24.5	0.012
30×1.0	22.4	799	18.1	0.011
30×1.5	25.4	1052	12.1	0.011
30×2.5	29.3	1489	7.41	0.010
37×0.75	22.7	796	24.5	0.012
37×1.0	23.8	924	18.1	0.011
37×1.5	27.0	1227	12.1	0.011
37×2.5	33.1	2092	7.41	0.010
44×0.75	24.9	923	24.5	0.012
44×1.0	26.2	1075	18.1	0.011
44×1.5	31.7	1757	12.1	0.011
44×2.5	37.0	2472	7.41	0.010
48×0.75	25.3	970	24.5	0.012
48×1.0	26.6	1133	18.1	0.011
48×1.5	32.2	1845	12.1	0.011
48×2.5	37.6	2607	7.41	0.010
52×0.75	25.9	1027	24.5	0.012
52×1.0	27.2	1203	18.1	0.011
52×1.5	32.9	1952	12.1	0.011
52×2.5	38.5	2767	7.41	0.010
61×0.75	27.2	1153	24.5	0.012
61×1.0	28.6	1356	18.1	0.011
61×1.5	34.6	2187	12.1	0.011
61×2.5	40.5	3122	7.41	0.010



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KVV₂₂ (含阻燃、耐火型)

芯数× 标称截面 Number of cores × Nominal cross section mm ²	导体 种类 Kind of conductor	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ · km
4×2.5	1	16.4	423	7.41	0.001
4×4	1	17.6	512	4.64	0.0085
4×6	1	18.8	624	3.08	0.0070
4×10	2	23.3	948	1.83	0.0065
5×2.5	1	17.4	483	7.41	0.001
5×4	1	18.7	592	4.64	0.0085
5×6	1	20.5	746	3.08	0.0070
5×10	2	25.1	1123	1.83	0.0065
7×0.75	1	14.8	329	24.5	0.012
7×1.0	1	15.2	361	18.1	0.011
7×1.5	1	16.6	439	12.1	0.011
7×2.5	1	18.4	566	7.41	0.010
7×4	1	19.9	708	4.61	0.0085
7×6	1	21.8	904	3.08	0.0070
7×10	2	26.9	1387	1.83	0.0065
8×0.75	1	15.4	360	24.5	0.012
8×1.0	1	16.0	396	18.1	0.011
8×1.5	1	17.5	486	12.1	0.011
8×2.5	1	19.5	632	7.41	0.010
8×4	1	21.5	813	4.61	0.0085
8×6	1	23.1	1020	3.08	0.0070
8×10	2	28.8	1579	1.83	0.0065
10×0.75	1	17.0	421	24.5	0.012
10×1.0	1	17.6	466	18.1	0.011
10×1.5	1	19.5	576	12.1	0.011
10×2.5	1	22.3	776	7.41	0.010
10×4	1	24.2	980	4.61	0.0085
10×6	1	26.3	1237	3.08	0.0070
10×10	2	33.7	1974	1.83	0.0065
12×0.5	1	17.3	447	24.5	0.012
12×0.75	1	18.0	497	18.1	0.011
12×1.0	1	19.9	620	12.1	0.011
12×1.5	1	22.9	843	7.41	0.010
12×2.5	1	24.8	1076	4.61	0.0085
	1	26.9	1371	3.08	0.0070
14×0.75	1	17.9	484	24.5	0.012
14×1.0	1	18.6	541	18.1	0.011
14×1.5	1	21.1	698	12.1	0.011
14×2.5	1	23.8	932	7.41	0.010
14×4	1	25.8	1199	4.61	0.0085
14×6	1	28.1	1540	3.08	0.0070
16×0.75	1	18.6	523	24.5	0.012
16×1.0	1	19.3	587	18.1	0.011
16×1.5	1	21.9	762	12.1	0.011
16×2.5	1	24.8	1025	7.41	0.010

芯数× 标称截面 Number of cores × Nominal cross section mm ²	导体 种类 Kind of conductor	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ · km
19×0.75	1	19.2	570	24.5	0.012
19×1.0	1	20.4	660	18.1	0.011
19×1.5	1	22.7	840	12.1	0.011
19×2.5	1	25.8	1142	7.41	0.010
24×0.75	1	20.7	640	24.5	0.012
24×1.0	1	22.8	795	18.1	0.011
24×1.5	1	25.6	1021	12.1	0.011
24×2.5	1	29.3	1401	7.41	0.010
27×0.75	1	22.2	739	24.5	0.012
27×1.0	1	23.2	841	18.1	0.011
27×1.5	1	26.0	1085	12.1	0.011
27×2.5	1	29.8	1500	7.41	0.010
30×0.75	1	22.8	788	24.5	0.012
30×1.0	1	23.8	899	18.1	0.011
30×1.5	1	26.8	1166	12.1	0.011
30×2.5	1	30.7	1621	7.41	0.010
37×0.75	1	24.1	898	24.5	0.012
37×1.0	1	25.2	1031	18.1	0.011
37×1.5	1	28.4	1349	12.1	0.011
37×2.5	1	34.5	2247	7.41	0.010
44×0.75	1	26.3	1036	24.5	0.012
44×1.0	1	27.6	1194	18.1	0.011
44×1.5	1	31.9	1611	12.1	0.011
44×2.5	1	38.4	2642	7.41	0.010
48×0.75	1	26.7	1084	24.5	0.012
48×1.0	1	28.0	1254	18.1	0.011
48×1.5	1	33.6	1996	12.1	0.011
48×2.5	1	39.0	2780	7.41	0.010
52×0.75	1	27.3	1144	24.5	0.012
52×1.0	1	28.6	1326	18.1	0.011
52×1.5	1	34.3	2103	12.1	0.011
52×2.5	1	39.9	2945	7.41	0.010
61×0.75	1	28.6	1276	24.5	0.012
61×1.0	1	30.0	1486	18.1	0.011
61×1.5	1	36.0	2349	12.1	0.011
61×2.5	1	41.9	3309	7.41	0.010



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KVVR (含阻燃、耐火型)

芯数× 标称截面 Number of cores × Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ · km
4×0.5	8.0	77	39.0	0.013
4×0.75	8.7	94	26.0	0.011
4×1.0	9.0	106	19.5	0.010
4×1.5	10.1	141	13.3	0.010
4×2.5	11.8	201	7.98	0.009
5×0.5	8.7	91	39.0	0.013
5×0.75	9.4	112	26.0	0.011
5×1.0	9.7	128	19.5	0.010
5×1.5	11.0	171	13.3	0.010
5×2.5	13.6	264	7.98	0.009
7×0.5	9.3	110	39.0	0.013
7×0.75	10.1	138	26.0	0.011
7×1.0	10.5	159	19.5	0.010
7×1.5	11.9	216	13.3	0.010
7×2.5	14.7	333	7.98	0.009
8×0.5	10.0	127	39.0	0.013
8×0.75	10.8	159	26.0	0.011
8×1.0	11.3	184	19.5	0.010
8×1.5	13.5	268	13.3	0.010
8×2.5	15.8	386	7.98	0.009
10×0.5	11.5	115	39.0	0.013
10×0.75	12.6	196	26.0	0.011
10×1.0	13.8	244	19.5	0.010
10×1.5	15.6	330	13.3	0.010
10×2.5	18.5	476	7.98	0.009
12×0.5	11.9	171	39.0	0.013
12×0.75	13.6	234	26.0	0.011
12×1.0	14.2	270	19.5	0.010
12×1.5	16.1	368	13.3	0.010
12×2.5	19.1	535	7.98	0.009
14×0.5	12.4	194	39.0	0.013
14×0.75	14.2	265	26.0	0.011
14×1.0	14.8	307	19.5	0.010
14×1.5	16.8	420	13.3	0.010
14×2.5	20.0	613	7.98	0.009
16×0.5	13.7	235	39.0	0.013
16×0.75	14.9	297	26.0	0.011
16×1.0	15.6	344	19.5	0.010
16×1.5	17.8	473	13.3	0.010
16×2.5	21.5	713	7.98	0.009

芯数× 标称截面 Number of cores × Nominal cross section mm ²	电缆参 考外径 Reference overall diameter of cable mm	电缆参 考重量 Reference weight of cable kg/km	20℃时 导体最大 直流电阻 Max. resistance of conductor at 20℃ Ω/km	70℃最小 绝缘电阻 Minimum insulation resistance at 70℃ MΩ · km
19×0.5	14.3	265	39.0	0.013
19×0.75	15.7	336	26.0	0.011
19×1.0	16.4	392	19.5	0.010
19×1.5	18.7	541	13.3	0.010
19×2.5	22.7	818	7.98	0.009
24×0.5	16.6	331	39.0	0.013
24×0.75	18.1	422	26.0	0.011
24×1.0	18.9	492	19.5	0.010
24×1.5	22.2	702	13.3	0.010
24×2.5	26.4	1033	7.98	0.009
27×0.5	16.9	356	39.0	0.013
27×0.75	18.5	456	26.0	0.011
27×1.0	19.4	534	19.5	0.010
27×1.5	22.7	763	13.3	0.010
27×2.5	27.0	1126	7.98	0.009
30×0.5	17.5	388	39.0	0.013
30×0.75	19.1	499	26.0	0.011
30×1.0	20.4	603	19.5	0.010
30×1.5	23.5	837	13.3	0.010
30×2.5	28.0	1240	7.98	0.009
37×0.5	18.8	461	39.0	0.013
37×0.75	21.0	614	26.0	0.011
37×1.0	22.0	720	19.5	0.010
37×1.5	25.3	1004	13.3	0.010
37×2.5	30.2	1494	7.98	0.009
44×0.5	21.4	564	39.0	0.013
44×0.75	23.4	727	26.0	0.011
44×1.0	24.6	853	19.5	0.010
44×1.5	28.3	1193	13.3	0.010
44×2.5	34.6	1824	7.98	0.009
48×0.5	21.7	599	39.0	0.013
48×0.75	23.8	773	26.0	0.011
48×1.0	25.0	910	19.5	0.010
48×1.5	28.8	1475	13.3	0.010
48×2.5	35.2	1952	7.98	0.009
52×0.5	22.3	641	39.0	0.013
52×0.75	24.5	829	26.0	0.011
44×1.0	25.6	977	19.5	0.010
52×1.5	29.6	1372	13.3	0.010
52×2.5	36.2	2101	7.98	0.009
61×0.5	23.6	733	39.0	0.013
61×0.75	25.9	952	26.0	0.011
61×1.0	27.2	1124	19.5	0.010
61×1.5	32.0	1625	13.3	0.010
61×2.5	38.8	2461	7.98	0.009



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额定电压 10kV、35kV 架空绝缘电缆

AERIAL CABLE WITH RATED VOLTAGE 10kV OR 35kV

1 电缆型号与主要用途

Type and Applications

型号 Type	名称 Name	主要用途 Application
JKY	铜芯聚乙烯绝缘架空电缆 Copper core PE insulated aerial cable	架空固定敷设，软铜芯产品用于变压器引下线 used for aerial fixed laying, For soft copper core cable, it is used for the leading wires of transformer. 电缆架设时，应考虑电缆和树木保持一定的距离， 电缆运行时允许电缆和树木频繁接触 Cable should keep some distance from trees when it is being laid, and it can touch the trees frequently when it is on operation.
JKLY	铝芯聚乙烯绝缘架空电缆 Aluminium core PE insulated aerial cable	
JKYJ	铜芯交联聚乙烯绝缘架空电缆 Copper core XLPE insulated aerial cable	
JKTRYJ	软铜芯交联聚乙烯绝缘架空电缆 Soft Copper core XLPE insulated aerial cable	
JKLYJ	铝芯交联聚乙烯绝缘架空电缆 Aluminium core XLPE insulated aerial cable	
JKLHYJ	铝合金芯交联聚乙烯绝缘架空电缆 Aluminium alloy core XLPE insulated aerial cable	
JKTRY	软铜芯聚乙烯绝缘架空电缆 Soft copper core PE insulated aerial cable	
JKLHY	铝合金芯聚乙烯绝缘架空电缆 Aluminium alloy core PE insulated aerial cable	
JKLYJ/B	铝芯本色交联聚乙烯绝缘架空电缆 Aluminium core natural color XLPE insulated aerial cable	架空固定敷设 used for aerial fixed laying 电缆架设时，应考虑电缆和树木保持一定的距离， 电缆运行时允许电缆和树木频繁接触 Cable should keep some distance from trees when it is being laid, and it can touch the trees frequently when it is on operation.
JKLHYJ/B	铝合金芯本色交联聚乙烯绝缘架空电缆 Aluminium alloy core natural color XLPE insulated light aerial cable	
JKLYJ/Q	铝芯轻型交联聚乙烯薄绝缘架空电缆 Aluminium core thin XLPE insulated aerial cable	架空固定敷设 used for aerial fixed laying 电缆架设时，应考虑电缆和树木保持一定的距离， 电缆运行时允许电缆和树木频繁接触 Cable should keep some distance from trees when it is being laid, and it can touch the trees frequently when it is on operation.
JKLHYJ/Q	铝合金芯轻型交联聚乙烯薄绝缘架空电缆 Aluminium alloy core thin XLPE insulated light aerial cable	
JKLY/Q	铝芯轻型聚乙烯薄绝缘架空电缆 Aluminium core light aerial PE insulated cable	
JKLHY/Q	铝合金芯轻型聚乙烯薄绝缘架空电缆 Aluminium alloy core thin PE insulated aerial cable	

2 制造依据

Manufacturing basis

产品制造依据是 GB/T14049-2008《额定电压 10kV 架空绝缘电缆》。

It is manufactured in accordance with GB/T14049-2008, "Aerial Cable with Rated Voltage 10kV."



3 使用特性

- 1、额定电压 U(Um)为 10 (12)kV。电缆可用于单相接地故障时间每次一般不大于 1min 的系统。亦可用于最长每次不超过 8h，每年累计不超过125h 的系统。
- 2、电缆敷设温度应不低于-20℃。
- 3、短路时 (最长持续时间不超过5s) 电缆的最高温度：
交联聚乙烯绝缘 250℃
高密度聚乙烯绝缘 150℃
- 4、电缆导体的最高长期允许工作温度 (对有承载结构的电缆)
交联聚乙烯绝缘 90℃
高密度聚乙烯绝缘 75℃
- 5、电缆的允许弯曲半径
单芯电缆 20 倍
多芯电缆 15 倍

Operational Performance

1. Rated voltage U(Um) is 10(12)kV.Applicable to the system of the duration of single phase earthing fault normally less than 1 minute each time or the system of maximum duration less than 8 hours each time, but the total duration not more than 125 hours.
2. Ambient temperature should be not lower than -20℃ when cable is installed.
3. The highest temperature of electric cable at the short circuit (the longest time allowed should not exceed 5 seconds):
XLPE insulated electric cable: 250℃
highdensity PE insulated electric cable: 150℃
4. The maximum working temperature of cable conductor is 90℃ for XLPE insulated cable.
75℃ for high-density PE insulated cable.
5. Bending radius of cable should be as follows:
for single core cable, not less than 20 times O.D.
for multi-core cable, not less than 15 times. O.D.

4 产品规格

Specification

架空绝缘电缆的规格 Aerial Insulated cable

型号 Type	芯数 Number of cores	标称截面Nominal crosssection mm ²
JKYJ JKTRYJ JKLYJ JKLHYJ	1	10~400
	3	25~400
	3+K(A)	25~400
	或3+K(B)	其中K25~120
JKY,JKTRY JKLY,JKLHY JKLYJ/Q,JKLHYJ/Q JKLY/Q,JKLHY/Q	1	10~400
JKLYJ/B JKLHYJ/B	3	25~400
	3+K(A)	25~400
	或3+K(B)	其中K25~120

注：1. 其中 K 为承载绞线，按工程设计要求，可任选上表中规定截面与相应导体截面匹配，如塔杆跨距更大采用外加承载索时，该承载索不包括在电缆结构内。

2. 其中 (A) 表示钢承载绞线，(B) 为铝合金承载绞线。

Note: 1. K denotes bearing stranded wire. You can select the corresponding cross-section in the above table as practical engineering needs. The bearing rope should not be included in the cable frame when it is needed due to larger gap between tower poles.

2. (A) means steel bearing stranded wire, while (B) means aluminium alloy bearing stranded.



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5 重要技术性能

Key Technical Property

1、导体直流电阻和导体的拉断力 D.C. resistance and breaking strength of conductor

导体标称 截面 Nominal crosssection mm ²	20℃时导体电阻不大于 Max.D.C. resistance at 20℃ Ω/km				导体拉断力不小于 Max. breaking load of conductor N		
	硬铜芯 Copper	软铜芯 Soft copper	铝芯 Aluminium	铝合金芯 Aluminium alloy	硬铜芯 Copper	铝芯 Aluminium	铝合金芯 Aluminium alloy
10	~	1.830	3.080	~	~	~	~
16	~	1.150	1.910	~	~	~	~
25	0.749	0.727	1.200	1.393	8465	3762	6284
35	0.540	0.524	0.868	1.007	11731	5177	8800
50	0.399	0.387	0.641	0.744	16502	7011	12569
70	0.267	0.268	0.433	0.514	23461	10354	17956
95	0.199	0.193	0.320	0.371	31759	13727	23880
120	0.158	0.153	0.253	0.294	39911	17339	30164
150	0.128	~	0.206	0.239	49505	21033	37706
185	0.1021	~	0.164	0.190	61846	26732	46503
240	0.0777	~	0.125	0.145	79823	34679	60329
300	0.0619	~	0.110	0.110	99788	43349	75411

2、承载绞线的拉断力 Breaking strength of hearing stranded

承载绞线截面 Cross-section of weighted stranding wire mm ²	钢承载绞线拉断力不小于 Breaking load of steel weighted stranding wire N >	铝合金承载绞线拉断力不小于 Breaking load of aluminium- alloyed weighted stranding wire N >
25	30000	6284
35	42000	8800
50	56550	12569
70	81150	17956
95	110115	23880
120	-	30164

3、绝缘电阻

试验在成盘电缆上进行。在室温下，将电缆浸于水中不少于1h，施加80~500V直流电压，稳定时间不小于1min。且不大于5min

- a、额定电压10kV电缆的绝缘电阻应不小于1500MΩ·km。
b、轻型薄绝缘结构电缆的绝缘电阻应不小于1000MΩ·km。

4、交流电压试验

试验在成盘电缆上进行。在室温下，将电缆浸于水中不少于1h后施加试验电压，试验持续时间为1min，电缆应不击穿，对应各额定电压电缆的试验电压如下表：

3. Insulation resistance

The test is conducted on the whole reel of cable. At room temperature, you should immerse the cable into water for not less than 1 hour, than apply 80 to 500 volts D.C. test voltage for not less than 1 minute, and not more than 5 minutes. The test result is as follows:

- a. The insulation resistance of a cable with rated voltage of 10kV should not be less than 1500MΩ·km
b. for 10 kilovolts common cable, insulation resistance should be not less than 1000 MΩ·km

4. A. C. voltage test

The test is conducted on cable reel. At room temperature, dip the cable in water for not less than 1 hour and then apply test voltage. The test lasts for 1 minule and the cable should not be broken down. The corresponding test voltages of various rated voltage cables are listed below:



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

试验电压 test voltage kV

额定电压U rated voltage	10kV	
	普通绝缘 结构电缆 common cable	轻薄绝缘 结构电缆 light cable
试验电压 test voltage	18	12

5、局部放电试验

有绝缘屏蔽的三芯 10kV 电缆，应进行局部放电试验，试验在浸在水中的成盘电缆上进行。在电缆上施加交流电压 9kV，电缆的放电量不大于 20pC。

6、产品的外径、重量及载流量计算的条件：

空气环境温度 25℃：

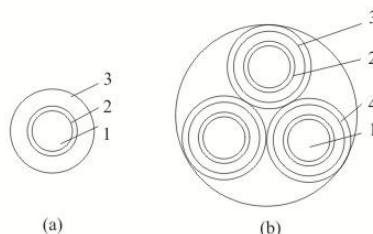
单芯电缆平行敷设，电缆的中心距离 S=300mm

a、10kV 架空绝缘电缆

普通型单芯架空绝缘电缆，型号：JKYJ、JKTRYJ、JKLYJ、JKLHYJ、JKY、JKLY、JKLHY、JKTRY
Single-core common aerial insulated cable, type: JKYJ、JKTRYJ、JKLYJ、JKLHYJ、JKY、JKLY、JKLHY、JKTRY

标称截面 Nominal cross section mm ²	绝缘标称厚度 Insulation nominal thickness mm	计算 外径 O.D. mm	电容 Electric capacity μ F/km	电感 Inductance mH/km	载流量 Ampacity A				产品近似重量Approx. weight of products kg/km		
					软铜芯	硬铜芯	铝芯	铝合金芯	软铜芯	铝芯	铝合金芯
					Soft copper	Copper	Aluminium	Aluminium alloy	Soft copper	Aluminium	Aluminium alloy
10	3.4	11.6	0.145	1.076	103	~	86.3	86.3	177.9	116.1	116.1
16	3.4	12.7	0.167	1.026	135	~	113.7	113.7	244.4	145.5	145.5
25	3.4	14.0	0.193	0.978	178.6	173.6	146.9	146.9	340.3	185.6	185.6
35	3.4	15.0	0.212	0.949	216	210	178.5	178.5	441.3	224.8	224.8
50	3.4	16.3	0.237	0.915	257	251.2	219.9	219.9	590.7	281.4	281.4
70	3.4	17.1	0.272	0.868	318	313	269.4	269.4	790.9	357.0	357.0
95	3.4	19.9	0.306	0.839	386.4	379.4	323.2	323.2	1040.0	452.2	452.2
120	3.4	21.3	0.333	0.817	449	441.1	375.5	375.5	1288.5	538.1	538.1
150	3.4	22.9	0.364	0.794	~	503.3	430.5	430.5	1568.4	640.3	640.3
185	3.4	24.5	0.394	0.774	~	583.4	494.9	494.9	1901.0	756.4	756.4
240	3.4	26.8	0.438	0.748	~	692.5	546	546	2421.0	936.2	936.2
300	3.4	29.0	0.468	0.725	~	807.6	607.7	607.7	2974.7	1128.6	1128.6

架空电缆结构简图见下图：
Below is the structural diagram of
aerial insulated cable:



10、架空电缆结构简图
(a) 单芯, (b) 三芯

1—导体; 2—内屏蔽层; 3—绝缘层; 4—外屏蔽层

10. Structural diagram of aerial insulated cable
(a) Single core; (b) three-core

1—conductor; 2—inner shield; 3—insulation; 4—outer shield;



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轻型单芯架空绝缘电缆，型号：JKLYJ/Q、JKLHYJ/Q、JKLY/Q、JKLHY/Q

Single-core light aerial cable, type: JKLYJ/Q、JKLHYJ/Q、JKLY/Q、JKLHY/Q

标称截面 Nominal cross section mm ²	绝缘标称厚度 Insulation nominal thickness mm	计算 外径 O.D. mm	电容 Electric capacity μ F/km	电感 Inductance mH/km	载流量 Ampacity A		产品近似重量Approx. weight of products kg/km	
					铝芯 Aluminium	铝合金芯 Aluminium alloy	铝芯 Aluminium	铝合金芯 Aluminium alloy
10	2.5	8.8	0.153	1.076	79.8	79.8	73.2	73.2
16	2.5	9.7	0.182	1.026	106.1	106.1	97.7	97.7
25	2.5	11.2	0.218	0.976	140.0	140.0	132.1	132.1
35	2.5	12.2	0.243	0.949	171.1	171.1	166.7	166.7
50	2.5	13.5	0.277	0.915	212.8	212.8	217.4	217.4
70	2.5	15.3	0.324	0.868	262.9	262.9	285.7	285.7
95	2.5	16.9	0.365	0.839	314.5	314.5	366.2	366.2
120	2.5	18.3	0.401	0.817	361.8	361.8	455.2	455.2
150	2.5	19.9	0.443	0.794	414.7	414.7	539.4	539.4
185	2.5	21.5	0.484	0.744	478.9	478.9	647.5	647.5
240	2.5	23.8	0.543	0.748	531.3	531.3	815.8	815.8
300	2.5	26.0	0.599	0.725	587.1	587.1	997.0	997.0

三芯普通型架空绝缘电缆，型号：JKTRYJ、JKLYJ、JKLHYJ、JKLYJ/B、JKLHYJ/B、JKYJ

3-cores common aerial insulated cable, type: JKTRYJ、JKLYJ、JKLHYJ、JKLYJ/B、JKLHYJ/B、JKYJ

标称截面 Nominal cross section mm ²	绝缘标称厚度 Insulation nominal thickness mm	计算 外径 O.D. mm	电容 Electric capacity μ F/km	电感 Inductance mH/km	载流量 Ampacity A			产品近似重量Approx. weight of products kg/km		
					软铜芯 Soft copper	铝芯 Aluminium	铝合金芯 Aluminium alloy	软铜芯 Soft copper	铝芯 Aluminium	铝合金芯 Aluminium alloy
25	3.4	34.5	0.264	0.715	140.6	119	119	1201.9	731.8	731.8
35	3.4	36.6	0.281	0.697	170.8	145.2	145.2	1519.8	862.6	862.6
50	3.4	39.4	0.300	0.679	205.9	180.3	180.3	1988.1	1048.9	1048.9
70	3.4	41.1	0.341	0.650	260.7	224.4	224.4	2616.3	1301.4	1301.4
95	3.4	47.2	0.369	0.639	316.9	269.9	269.9	3392.7	1608.1	1608.1
120	3.4	50.2	0.390	0.629	366.5	312	312	4138.7	1844.6	1844.6
150	3.4	53.6	0.411	0.619	420.3	359.5	359.5	5028.7	2211.1	2211.1
185	3.4	57.1	0.431	0.611	484.4	410.9	410.9	6085.4	2853.3	2853.3
240	3.4	62.0	0.485	0.602	581.5	458.5	458.5	7663.2	3155.1	3155.1
300	3.4	67.9	0.522	0.595	670.6	508.6	508.6	9399.2	3764.1	3764.1

注：承载绞线截面应为 25~50mm²，按客户设计要求制造。承载绞线应在三芯成缆的中央，本表格中的产品重量不包括承载绞线的重量。铜芯三芯电缆最大截面为 120mm²。

Note: The crosssection of bearing stranded wire should be 25 to 50mm². It should be put in the centre of 3-core cable when cabling. The approx weight of products in the above table does not include the weight of bearing stranded wire. The aximum cross-section of copper core 3-core cable is 120mm².



导体温度90℃时，环境温度对载流量的修正系数

Correction factor of ampacity as a function of air temperature

空气温度 air temp.	15	20	25	30	35	40	45
修正系数 factor	1.07	1.03	1.00	0.94	0.91	0.86	0.82

注：以上数据仅供参考，您的电力安装工程请聘请专业人干设计，安装选用电缆，以策安全。

This data is only used for reference. To assure the safety, your electric engineering shall be conducted by the professionals in terms of the design, installation and the selection of cable.



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广东省著名商标

额定电压 1kV 及以下交联聚乙烯绝缘架空电缆

XLPE INSULATED AERIAL CABLE WITH RATED VOLTAGE UP TO AND INCLUDING 1kV

1 产品用途

Product Purpose

本产品适用于交流额定电压 U_0/U 为 0.6/1kV 及以下架空电力线路用。

The product applies to aerial electric lines with rated voltage U_0/U up to and including 0.6/1kV.

2 产品型号

Type

JKYJ-1 —— 1kV 铜芯交联聚乙烯绝缘架空电缆

JKYJ-1 —— 1 kV copper core XLPE insulated aerial cable

JKLYJ-1 —— 1kV 铝芯交联聚乙烯绝缘架空电缆

JKLYJ-1 —— 1 kV aluminium core XLPE insulated aerial cable

JKLHYJ-1 —— 1kV 铝合金芯交联聚乙烯绝缘架空电缆

JKLHYJ-1 —— 1 kV aluminium alloy core XLPE insulated aerial cable

3 产品标准

Standards of the Products

本产品按 GB/T12527-2008 标准组织生产。

It is manufactured in compliance with GB/T12527-2008.

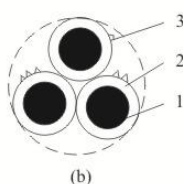
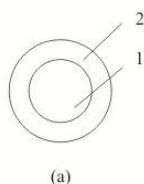
4 主要特性

The Main Characteristics

- (1) 额定电压 U 为 1kV。
- (2) 电缆导体的长期允许工作温度应不超过 90°C 。
- (3) 电缆的敷设环境温度应不低于 -20°C 。
- (4) 电缆允许弯曲半径：
电缆外径(D) 小于 25mm 者，应不小于 $4D$ 。
电缆外径(D) 为 25mm 及以上者，应不小于 $6D$ 。

- (1) Rated voltage U is 1 kV.
- (2) Permissible continuous working temperature of cable conductor is 90°C .
- (3) Ambient temperature is not lower than -20°C when cable is installed.
- (4) Permissible minimum bending radius is as follows:
——For O.D. less than 25 millimeter, equal to or greater than 4 times O.D.
——For O. D. not less than 25 millimeter, equal to or greater than 6 times O.D.

0.6/1kV 架空电缆结构简图见下图：
0.6/1kV Below is the structural diagram of aerial insulated cable:



1kV 架空电缆结构简图
(a) 单芯, (b) 三芯
1—导体; 2—绝缘层; 3—分相标志
Structural diagram of 1kV aerial insulated cable
(a) Single core; (b) three-core
1—conductor; 2—insulation;
3—phase separation marker



5 主要技术参数

Key Technical Parameter

标称截面 Nominal cross section mm ²	电缆最大外径 Max. overall diameter of cable mm	20℃时导体电阻不大于 Max. resistance of nductor at 20℃ Ω/km			90℃时最小 绝缘电阻 Min.insulation resistance at90℃ MΩ · km	电缆拉断力 Breaking load of cable N			电缆参考重量 Reference weight of cable kg/km	
		铜芯 copper	铝芯 Aluminium	铝合金芯 Aluminium alloy		铜芯 copper	铝芯 Aluminium	铝合金芯 Aluminium alloy	Cu	Al
10	6.5	1.906	3.08	3.574	0.67	3471	1650	2514	106	43
16	8.0	1.198	1.91	2.217	0.65	5486	2571	4022	168	68
25	9.4	0.749	1.20	1.393	0.54	8465	3762	6284	254	97
35	11.0	0.540	0.868	1.007	0.54	11731	5177	8800	354	135
50	12.3	0.399	0.641	0.744	0.46	16502	7011	12569	496	182
70	14.1	0.276	0.443	0.514	0.40	23461	10354	17596	683	244
95	16.5	0.199	0.320	0.371	0.39	31759	13737	23880	925	330
120	18.1	0.158	0.253	0.294	0.35	39911	17339	30164	1157	406
150	20.2	0.128	0.206	0.239	0.35	49505	21033	37706	1448	508
185	22.5	0.1021	0.164	0.190	0.35	61846	26732	46503	1786	626
240	25.6	0.0777	0.125	0.145	0.34	79823	34679	60329	2310	806



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铝绞线及钢芯铝绞线

Aluminium stranded wire and steel core aluminium stranded wire

本产品适用于架空电力线路之用。

This product is suitable for installation of aerial electric lines.

产品标准: GB/T1179-2008

Standard of products: GB/T1179-2008

型号 Type	名称 Name
LJ	铝绞线Aluminium Stranded Cable
JL/G1A	钢芯铝绞线Aluminium conductors steel-reinforced
JLHA2、JLHA1	铝合金绞线Aluminum alloy wire
JLHA2/G1A	钢芯铝合金绞线Alloy steel wire
JLHA1/G1A	钢芯铝合金绞线Alloy steel wire

LJ 硬铝绞线性能

LJ strander performance Diaspore

标称截面铝 Nominal cross section aluminum	面积/mm ² Area mm ²	单线根数 The number of single-root	直径/mm Diameter		额定抗拉力/kN Anti-rated Rally kN	直流电阻 DC resistance (20℃)/ (Ω/km)
			单线 One-way	绞线 Stranded		
35	34.36	7	2.50	7.5	6.01	0.8333
50	49.48	7	3.00	9.00	8.41	0.5787
70	71.25	7	3.60	10.8	11.40	0.4019
95	95.14	7	4.16	12.5	15.22	0.3010
120	121.21	19	2.85	14.3	20.61	0.2374
150	148.07	19	3.15	15.8	24.43	0.1943
185	182.80	19	3.50	17.5	30.16	0.1574
210	209.85	19	3.75	18.8	33.58	0.1371
240	238.76	19	4.00	20.0	38.20	0.1205
300	297.57	37	3.20	22.4	49.10	0.0969
500	502.90	37	4.16	29.1	80.46	0.0573



深圳市金环宇电线电缆有限公司 Shenzhen Gold Universal Wire & Cable Co., Ltd.

JL/G1A 钢芯铝绞线性能

ACSR JL/G1A performance

标称截面铝/钢 Nominal cross section of aluminum / steel	钢比 Steel ratio /%	面积/mm ² Area mm ²			单线根数 The number of single-root		单线直径 Single diameter		直径/mm Diameter		单位长度质量/ Mass per unit length (kg/km)	额定抗拉力/kN Anti-rated Rally kN	直流电阻 (20℃)/ (Ω/km)
		铝 Aluminium	钢 Steel	总和 The sum of	铝 Aluminium	钢 Steel	铝 Aluminium	钢 Steel	钢芯 Steel	绞线 Stranded			
10/2	17	10.60	1.77	12.37	6	1	1.50	1.50	1.50	4.50	42.8	4.14	2.7062
16/3	17	16.13	2.69	18.82	6	1	1.85	1.85	1.85	5.55	65.1	6.13	1.7791
35/6	17	34.86	5.81	40.67	6	1	2.72	2.72	2.72	8.16	140.8	12.55	0.8230
50/8	17	48.25	8.04	56.30	6	1	3.20	3.20	3.20	9.60	194.8	16.81	0.5946
50/30	58	50.73	29.59	80.32	12	7	2.32	2.32	6.96	11.6	371.1	42.61	0.5693
70/10	17	68.05	11.34	79.39	6	1	3.80	3.80	3.80	11.4	274.8	23.36	0.4217
70/40	58	69.73	40.67	110.40	12	7	2.72	2.72	8.16	13.6	510.2	58.22	0.4141
95/15	16	94.39	15.33	109.73	26	7	2.15	1.67	5.01	13.6	380.2	34.93	0.3059
95/20	20	95.14	18.82	113.96	7	7	4.16	1.85	5.55	13.9	408.2	37.24	0.3020
95/55	58	96.51	56.30	152.81	12	7	3.20	3.20	9.60	16.0	706.1	77.85	0.2992
120/7	6	118.89	6.61	125.50	18	1	2.90	2.90	2.90	14.5	378.5	27.74	0.2422
120/20	16	115.67	18.82	134.49	26	7	2.38	1.85	5.55	15.1	466.1	42.26	0.2496
120/25	20	122.48	24.25	146.73	7	7	4.72	2.10	6.30	15.7	525.7	47.96	0.2346
120/70	58	122.15	71.25	193.40	12	7	3.60	3.60	10.8	18.0	893.7	97.92	0.2364
150/8	6	144.76	8.04	152.80	18	1	3.20	3.20	3.20	16.0	460.9	32.73	0.1990
150/20	13	145.68	18.82	164.50	24	7	2.78	1.85	5.55	16.7	548.5	46.78	0.1981
150/25	16	148.86	24.25	173.11	26	7	2.70	2.10	6.30	17.1	600.1	53.67	0.1940
150/35	23	147.26	34.36	181.62	30	7	2.50	2.50	7.50	17.5	675.0	64.94	0.1962
185/10	6	183.22	10.18	193.40	18	1	3.60	3.60	3.60	18.0	583.3	40.51	0.1572
185/25	13	187.03	24.25	211.28	24	7	3.15	2.10	6.30	18.9	704.9	59.23	0.1543
185/30	16	181.34	29.59	210.93	26	7	2.98	2.32	6.96	18.9	731.4	64.56	0.1592
185/45	23	184.73	43.10	227.83	30	7	2.80	2.80	8.40	19.6	846.7	80.54	0.1564
210/10	6	204.14	11.34	215.48	18	1	3.80	3.80	3.80	19.0	649.9	45.14	0.1411
210/25	13	209.02	27.10	236.12	24	7	3.33	2.22	6.66	20.0	787.8	66.19	0.1380
210/35	16	211.73	34.36	246.09	26	7	3.22	2.50	7.50	20.4	852.5	74.11	0.1364
210/50	23	209.24	48.82	258.06	30	7	2.98	2.98	8.94	20.9	959.0	91.23	0.1381
240/30	13	244.29	31.67	275.96	24	7	3.60	2.40	7.20	21.6	920.7	75.19	0.1181
240/40	16	238.84	38.90	277.74	26	7	3.42	2.66	7.98	21.7	962.8	83.76	0.1209
240/55	23	241.27	56.30	297.57	30	7	3.20	3.20	9.60	22.4	1105.8	101.74	0.1198
300/15	5	296.88	15.33	312.21	42	7	3.00	1.67	5.01	23.0	938.7	68.41	0.0973
300/20	7	303.42	20.91	324.32	45	7	2.93	1.95	5.85	23.4	1000.8	76.04	0.0952
300/25	9	306.21	27.10	333.31	48	7	2.85	2.22	6.66	23.8	1057.0	83.76	0.0944
300/40	13	300.09	38.90	338.99	24	7	3.99	2.66	7.98	23.9	1131.0	92.36	0.0961
300/50	16	299.54	48.82	348.37	26	7	3.83	2.98	8.94	24.3	1207.7	103.58	0.0964
300/70	23	305.36	71.25	376.61	30	7	3.60	3.60	10.8	25.2	1399.6	127.23	0.0946
400/20	5	406.40	20.91	427.31	42	7	3.51	1.95	5.85	26.9	1284.3	89.48	0.0710
400/25	7	391.91	27.10	419.01	45	7	3.33	2.22	6.66	26.6	1293.5	96.37	0.0737
400/35	9	390.88	34.36	425.24	48	7	3.22	2.50	7.50	26.8	1347.5	103.67	0.0739
400/65	16	398.94	65.06	464.00	26	7	4.42	3.44	10.3	28.0	1608.7	135.39	0.0724
400/95	23	407.75	93.27	501.02	30	19	4.16	2.50	12.5	29.1	1856.7	171.56	0.0709
500/45	9	488.58	43.10	531.68	48	7	3.60	2.80	8.40	30.0	1685.5	127.31	0.0591
630/55	9	639.92	56.30	696.22	48	7	4.12	3.20	9.60	34.3	2206.4	164.31	0.0452
800/55	7	814.30	56.30	870.60	45	7	4.80	3.20	9.60	38.4	2687.5	192.22	0.0355
800/70	9	808.15	71.25	879.40	48	7	4.63	3.60	10.8	38.6	2787.6	207.68	0.0358



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LJHA1 铝合金绞线性能

Aluminum Alloy Stranded LJHA1 performance

标称截面铝合金 Nominal cross-section aluminum alloy	面积/mm ² Area mm ²	单线根数 The number of single-root	直径/mm Diameter		单位长度质量/ Mass per unit length (kg/km)	额定抗拉力/kN Anti-rated Rally kN	直流电阻 DC resistance (20℃)/ (Ω/km)
			单线 One-way	绞线 Stranded			
10	10.02	7	1.35	4.05	27.4	3.26	3.3205
16	16.08	7	1.71	5.13	44.0	5.22	2.0695
25	24.94	7	2.13	6.39	68.2	8.11	1.3339
35	34.91	7	2.52	7.56	95.5	11.35	0.9529
50	50.14	7	3.02	9.06	137.2	16.30	0.6635
70	70.07	7	3.57	10.7	191.7	22.07	0.4748
95	95.14	7	4.16	12.5	261.5	29.97	0.3514
150	149.96	19	3.17	15.9	412.2	48.74	0.2229
210	209.85	19	3.75	18.8	576.8	66.10	0.1593
240	239.96	19	4.01	20.1	661.1	75.59	0.1397
300	299.43	37	3.21	22.5	825.0	97.32	0.1119
400	399.98	37	3.71	26.0	1102.0	125.99	0.0838
500	500.48	37	4.15	29.1	1380.9	157.65	0.0671
630	631.30	61	3.63	32.7	1741.8	198.86	0.0532
800	801.43	61	4.09	36.8	2211.3	252.45	0.0419
1000	1000.58	61	4.57	41.1	2760.7	315.18	0.0335

LJHA2 铝合金绞线性能

Aluminum Alloy Stranded LJHA2 performance

标称截面铝合金 Nominal cross-section aluminum alloy	面积/mm ² Area mm ²	单线根数 The number of single-root	直径/mm Diameter		单位长度质量/ Mass per unit length (kg/km)	额定抗拉力/kN Anti-rated Rally kN	直流电阻 DC resistance (20℃)/ (Ω/km)
			单线 One-way	绞线 Stranded			
10	10.02	7	1.35	4.05	27.4	2.96	3.2891
16	16.08	7	1.71	5.13	44.0	4.74	2.0500
25	24.94	7	2.13	6.39	68.2	7.36	1.3213
35	34.91	7	2.52	7.56	95.5	10.30	0.9439
50	50.14	7	3.02	9.06	137.2	14.79	0.6573
70	70.07	7	3.57	10.7	191.7	20.67	0.4703
95	95.14	7	4.16	12.5	261.5	28.07	0.3481
120	120.36	19	2.84	14.2	330.8	35.51	0.2751
150	149.96	19	3.17	15.9	412.2	44.24	0.2208
210	209.85	19	3.75	18.8	576.8	61.91	0.1578
240	239.96	19	4.01	20.1	661.1	70.79	0.1383
300	299.43	37	3.21	22.5	825.0	88.33	0.1109
400	399.98	37	3.71	26.0	1102.0	117.99	0.0830
500	500.48	37	4.15	29.1	1380.9	147.64	0.0664
630	631.30	61	3.63	32.7	1741.8	186.23	0.0527
800	801.43	61	4.09	36.8	2211.3	236.42	0.0415
1000	1000.58	61	4.57	41.1	2760.7	295.17	0.0332



深圳市金环宇电线电缆有限公司
Shenzhen Gold Universal Wire & Cable Co., Ltd.

JLHA1/G1A 钢芯铝合金绞线性能
Alloy steel wire JLHA1/G1A performance

标称截面铝/钢 Nominal cross section of aluminum / steel	钢比 Steel ratio /%	面积/mm ² Area mm ²			单线根数 The number of single-root		单线直径 Single diameter		直径/mm Diameter		单位长度质量/ Mass per unit length (kg/km)	额定抗拉力/kN Anti-rated Rally kN	直流电阻 (20℃)/ (Ω/km)
		铝 Aluminium	钢 Steel	总和 The sum of	铝 Aluminium	钢 Steel	铝 Aluminium	钢 Steel	钢芯 Steel	绞线 Stranded			
10/2	17	10.60	1.77	12.37	6	1	1.50	1.50	1.50	4.50	42.8	5.51	3.1444
16/3	17	16.13	2.69	18.82	6	1	1.85	1.85	1.85	5.55	65.1	8.39	2.0671
25/6	17	25.36	4.23	29.59	6	1	2.32	2.32	2.32	6.96	102.4	13.06	1.3144
35/6	17	34.86	5.81	40.67	6	1	2.72	2.72	2.72	8.16	140.8	17.96	0.9563
50/8	17	48.25	8.04	56.30	6	1	3.20	3.20	3.20	9.60	194.8	24.53	0.6909
50/30	58	50.73	29.59	80.32	12	7	2.32	2.32	6.96	11.6	371.1	50.22	0.6614
70/10	17	68.05	11.34	79.39	6	1	3.80	3.80	3.80	11.4	274.8	33.91	0.4899
70/40	58	69.73	40.67	110.40	12	7	2.72	2.72	8.16	13.6	510.2	69.03	0.4812
95/15	16	94.39	15.33	109.73	26	7	2.15	1.67	5.01	13.6	380.2	48.62	0.3554
95/55	58	96.51	56.30	152.81	12	7	3.20	3.20	9.60	16.0	706.1	93.29	0.3477
120/7	6	118.89	6.61	125.50	18	1	2.90	2.90	8.70	14.5	378.5	46.17	0.2815
120/20	16	115.67	18.82	134.49	26	7	2.38	1.85	5.55	15.1	466.1	59.61	0.2900
120/70	58	122.15	71.25	193.40	12	7	3.60	3.60	10.8	18.0	893.7	116.85	0.2747
150/8	6	144.76	8.04	152.81	18	1	3.20	3.20	3.20	16.0	460.9	55.90	0.2312
150/25	16	148.86	24.25	173.11	26	7	2.70	2.10	6.30	17.1	600.1	76.75	0.2254
185/10	6	183.22	10.18	193.40	18	1	3.60	3.60	3.60	18.0	583.3	68.91	0.1826
210/10	6	204.14	11.34	215.48	18	1	3.80	3.80	3.80	19.0	649.9	76.78	0.1639
210/35	16	211.73	34.36	246.09	26	7	3.22	2.50	7.50	20.4	852.5	107.98	0.1585
240/30	13	244.29	31.67	275.96	24	7	3.60	2.40	7.20	21.6	920.7	113.05	0.1372
240/40	16	238.84	38.90	277.74	26	7	3.42	2.66	7.98	21.7	962.8	121.97	0.1405
300/20	7	303.42	20.91	324.32	45	7	2.93	1.95	5.85	23.4	1000.8	123.07	0.1106
300/50	16	299.54	48.82	348.37	26	7	3.83	2.98	8.94	24.3	1207.7	150.01	0.1120
300/70	23	305.36	71.25	376.61	30	7	3.60	3.60	10.8	25.2	1399.6	174.57	0.1099
400/25	7	391.91	27.10	419.01	45	7	3.33	2.22	6.66	26.6	1293.5	159.07	0.0857
400/50	13	399.72	51.82	451.54	54	7	3.07	3.07	9.21	27.6	1509.3	186.91	0.0841
400/95	23	407.75	93.27	501.02	30	19	4.16	2.50	12.5	29.1	1856.7	234.77	0.0823
500/35	7	497.01	34.36	531.37	45	7	3.75	2.50	7.50	30.0	1640.3	195.73	0.0675
500/65	13	501.88	65.06	566.94	54	7	3.44	3.44	10.3	31.0	1895.0	234.68	0.0670
630/45	7	623.45	43.10	666.55	45	7	4.20	2.80	8.40	33.6	2057.6	245.52	0.0538
630/80	13	635.19	80.32	715.51	54	19	3.87	2.32	11.6	34.8	2384.7	291.65	0.0529
800/55	7	814.30	56.30	870.60	45	7	4.80	3.20	9.60	38.4	2687.5	318.43	0.0412
800/100	13	795.17	100.88	896.05	54	19	4.33	2.60	13.0	39.0	2987.8	365.48	0.0423
1000/45	4	1002.27	43.10	1045.38	72	7	4.21	2.80	8.40	42.1	3106.8	364.85	0.0335
1000/125	13	993.51	125.50	1119.01	54	19	4.84	2.90	14.5	43.5	3728.9	456.03	0.0338



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广东省著名商标

JLHA2/G1A 钢芯铝合金绞线性能

Alloy steel wire JLHA2/G1A performance

标称截面铝/钢 Nominal cross section of aluminum / steel	钢比 Steel ratio /%	面积/mm ² Area mm ²			单线根数 The number of single-root		单线直径 Single diameter		直径/mm Diameter		单位长度质量/ Mass per unit length (kg/km)	额定抗拉力/kN Anti-rated Rally kN	直流电阻 (20℃)/ (Ω/km)
		铝 Aluminium	钢 Steel	总和 The sum of	铝 Aluminium	钢 Steel	铝 Aluminium	钢 Steel	钢芯 Steel	绞线 Stranded			
10/2	17	10.60	1.77	12.37	6	1	1.50	1.50	1.50	4.50	42.8	5.20	3.1147
16/3	17	16.13	2.69	18.82	6	1	1.85	1.85	1.85	5.55	65.1	7.90	2.0476
25/6	17	25.36	4.23	29.59	6	1	2.32	2.32	2.32	6.96	102.4	12.30	1.3020
35/6	17	34.86	5.81	40.67	6	1	2.72	2.72	2.72	8.16	140.8	16.91	0.9472
50/30	58	50.73	29.59	80.32	12	7	2.32	2.32	6.96	11.6	371.1	48.70	0.6552
70/10	17	68.05	11.34	79.39	6	1	3.80	3.80	3.80	11.4	274.8	32.55	0.4853
70/40	58	69.73	40.67	110.40	12	7	2.72	2.72	8.16	13.6	510.2	66.94	0.4766
95/15	16	94.39	15.33	109.73	26	7	2.15	1.67	5.01	13.6	380.2	45.79	0.3521
95/55	58	96.51	56.30	152.81	12	7	3.20	3.20	9.60	16.0	706.1	90.40	0.3444
120/7	6	118.89	6.61	125.50	18	1	2.90	2.90	8.70	14.5	378.5	42.60	0.2788
120/20	16	115.67	18.82	134.49	26	7	2.38	1.85	5.55	15.1	466.1	56.14	0.2873
120/70	58	122.15	71.25	193.40	12	7	3.60	3.60	10.8	18.0	893.7	114.41	0.2721
150/8	6	144.76	8.04	152.81	18	1	3.20	3.20	3.20	16.0	460.9	51.55	0.2290
150/25	16	148.86	24.25	173.11	26	7	2.70	2.10	6.30	17.1	600.1	72.28	0.2232
210/10	6	204.14	11.34	215.48	18	1	3.80	3.80	3.80	19.0	649.9	72.70	0.1624
210/35	16	211.73	34.36	246.09	26	7	3.22	2.50	7.50	20.4	852.5	101.63	0.1570
240/30	13	244.29	31.67	275.96	24	7	3.60	2.40	7.20	21.6	920.7	108.17	0.1359
240/40	16	238.84	38.90	277.74	26	7	3.42	2.66	7.98	21.7	962.8	114.81	0.1391
300/20	7	303.42	20.91	324.32	45	7	2.93	1.95	5.85	23.4	1000.8	113.97	0.1096
300/50	16	299.54	48.82	348.37	26	7	3.83	2.98	8.94	24.3	1207.7	144.02	0.1109
300/70	23	305.36	71.25	376.61	30	7	3.60	3.60	10.8	25.2	1399.6	168.46	0.1089
400/25	7	391.91	27.10	419.01	45	7	3.33	2.22	6.66	26.6	1293.5	147.32	0.0849
400/50	13	399.72	51.82	451.54	54	7	3.07	3.07	9.21	27.6	1509.3	174.92	0.0833
400/95	23	407.75	93.27	501.02	30	19	4.16	2.50	12.5	29.1	1856.7	226.61	0.0816
500/35	7	497.01	34.36	531.37	45	7	3.75	2.50	7.50	30.0	1640.3	185.79	0.0669
500/65	13	501.88	65.06	566.94	54	7	3.44	3.44	10.3	31.0	1895.0	219.62	0.0663
630/45	7	623.45	43.10	666.55	45	7	4.20	2.80	8.40	33.6	2057.6	233.05	0.0533
630/80	13	635.19	80.32	715.51	54	19	3.87	2.32	11.6	34.8	2384.7	278.95	0.0524
800/55	7	814.30	56.30	870.60	45	7	4.80	3.20	9.60	38.4	2687.5	302.15	0.0408
800/100	13	795.17	100.88	896.05	54	19	4.33	2.60	13.0	39.0	2987.8	349.57	0.0419
1000/45	4	1002.27	43.10	1045.38	72	7	4.21	2.80	8.40	42.1	3106.8	344.81	0.0332
1000/125	13	993.51	125.50	1119.01	54	19	4.84	2.90	14.5	43.5	3728.9	436.16	0.0335



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

额定电压 0.6/1kV 铜芯塑料绝缘和护套预制分支电力电缆

Copper-conductor plastic insulated and sheathed prefabricated branch power cables with rated voltage 0.6/1kV

经济建设高速发展,现代建筑日新月异,建筑配电的复杂性已成为建筑设计、投资、施工单位普遍关注的一大课题。为顺应市场潮流,跟踪世界先进技术,预制分支电缆的诞生给建筑物中的供电线路带来新的选择。其具有综合成本低、工厂制作质量保证、现场安装施工方便、供电安全可靠、免维护保养等特点。是高质量、高效率、高回报的理想产品。

分支电缆配电的技术先进性:一、可使配电简化成最简单的二级配电,符合规范中配电级数越少越好的原则。二、具有最高的配电可靠性,适用于各种重要场合甚至是特别重要场合的配电。三、分支电缆是一种经过预制的电力电缆,其外形和结构特征具备电缆特性,且接头经过密封绝缘处理,对环境要求低,能适用于潮湿、盐雾酸碱等环境,适用范围相当广泛。

1 特 长

■ 具有优良的供电安全可靠:

- 1、主干电缆导体无接头、连续性好,减少了故障点。
- 2、分支接头采用工厂全程机械化制作,大大降低人为因素造成质量不良现象。
- 3、分支接头结构合理并采用先进的LYZ工艺制作,接触电阻极小,不受热胀冷缩影响。
- 4、短时间内完成压模护套,避免了接头接触处铜芯长时间裸露在空气中产品氧化而导致接触电阻变化。
- 5、分支接头有严格的技术标准和检验要求。以及有严密的质保体系。

■ 安装简便、环境条件要求低,施工方便

- 1、占用建筑面积小,有利于建筑面积的有效使用,对土建的空间尺寸无要求。
- 2、使用环境要求低,安装精度要求低。
- 3、安装简单方便,安装技术要求不高,安装设备仅需一台普通卷场机即可。且安装周期短,仅为母线槽安装工时的1/10或1/20。安装劳动强度小。
- 4、由于它的弯曲半径小,大大地降低了安装难度和缩小了空间尺寸。

■ 优良的抗震性、气密性、防水性和耐火性

- 1、优良的抗震性、一般机械连接母线槽接头,在墙体

With the rapid development of the economy and the construction industry, the complexity of power distribution has been the focus that the construction designers, investors and construction units are very much concerned about. In order to meet the needs of the market and track the advanced technology in the world, the production of prefabricated branch cables offers new options for the electric circuit in the buildings, which features its low cost, quality guarantee during the production, convenient on-site installation, safety of power supplying, maintenance-free and so on. It is the ideal product with high quality, high efficiency and high return.

The advantages of the prefabricated cables: 1) It can simplify the power distribution as the secondary power distribution and complies with the requirements that the levels shall be minimized during power distribution. 2) It has the highest reliability and fits all kinds of situations, particularly the very important situations. 3) The branch cable is the prefabricated cable which has the normal appearance and structure. Its joints have been treated for sealing and insulation. For its low requirements for the work environment, it can be widely applied, such as in the environment with humidity, salt fog, acid and alkali.

Features

Safe and reliable for supplying power:

1. Joint free main cable, good continuity, reducing failures;
2. Branch joints produced through full mechanical process, greatly reducing the nonconformities generated by man-made causes.
3. Branch joint's structure optimized by advanced LYZ process, with small contact resistance and without the impact of heat expansion and cold contraction.
4. Sheath molded in short time, avoiding the oxidation at the copper core of joint's contact area that can be caused by long time staying in the air.
5. Branch joints produced by strictly observing the related technical specification and inspection requirements, with stringent QA system implemented.

Easy installation and high adaptability to environment

1. Small space occupation, benefiting the efficient use of building area, without requirements on spatial size of civil engineering.
2. High adaptability to surrounding environment, low installation precision required.
3. Easy installation with low technical requirements (only one cable hoist is needed); Short installation time, only 1/10 or 1/20 of the installation time for bus bar; low labor intensity for installation.
4. Small bending radius, greatly reducing the operation difficulties and the space occupation.

Good performance of anti-malleability, airtightness, waterproofing and fireproofing

1. Good anti-malleability function: bus duct joints as connected mechanically can become loose after the wall body



国家免检



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广东省著名商标

受振动后会发生接头松动，而FZ系列预制分支电缆不会受到影响。特别在通过建筑沉降缝时不需要任何措施。

- 2、良好气密性和防水性，能在潮湿的环境中正常供电，也能在露天及埋地敷设。
- 3、采用耐火型的预制分支电缆，可在燃烧情况下，保持90min的供电运行。

■ 免维护

- 1、预制分支电缆按规定方法安装后，一次性开通率高。
- 2、正常运行的预制分支电缆系统平时不需要任何维护保养，故障率为零。

■ 可明显降低配电成本

与母线槽相比，可降低工程造价，且技术经济指标高，综合经济效益显著。

■ 品种规格多，选用灵活，任意组合

- 1、主电缆从10mm²到630mm²分支电缆从6mm²到300mm²任意组合选用。
- 2、电缆品种多，有VV、ZR-VV、NH-VV、YJV、ZR-YJV、NH-YJV、WDZN-YJV等，可根据需要选用。
- 3、分支接头可根据楼层需要任意设定分支位置。

2 用途

- 1、中高层住宅楼配电系统。
- 2、小区、厂房建设。
- 3、防灾设备。
- 4、机场、铁路、桥梁、隧道等照明系统。
- 5、各种场合可代替中小容量的母线槽。

3 产品标准

产品按国家标准 GB/T 12706-2008 及建筑工业行业标准 JG/T147-2002、GA306-2007、GB/T19666-2005进行生产。

4 型号和规格

4.1 预制分支电力电缆型号和规格说明：

Type and specification notile of the pre-fabricated brancheel cable.

FZ — () — 0.6/1 — () () / ()



is vibrated. However, FZ series prefabricated branch cables won't be affected by that vibration. Particularly, no extra measures need to be taken when it passes by the settlement joint on buildings.

2. Good airtightness and waterproofing performance, ensuring normal power supplying in humid environment, open air and underground.

3. Fireproof prefabricated branch cable, ensuring 90 minutes of power supplying even when the cable is burning.

Maintenance free

1. Once the prefabricated branch cable is installed by using the required method, the one-time success rate can be quite high.

2. No maintenance work is needed when the prefabricated branch cable works under normal condition, with zero failure rate.

Obviously reducing the power distribution costs

And the project price that's compared to the bus duct. High technical and economic index, achieving good economic efficiency.

Great varieties, flexible options and at-will combinations

1. Main cables ranging from 10 mm² to 630 mm² and branch cables ranging from 6 mm² to 300 mm², which can be combined at will.

2. Various types of cables for options, such as VV、ZR-VV、NH-VV、YJV、ZR-YJV、NH-YJV, etc.

3. Joints for branch cable can be set at will to meet the need of the floor

Purpose

1. For the power distribution of medium and tall buildings.
2. For the construction of residential area and workshops.
3. On the equipment for preventing disasters.
4. For the lighting of bridges and channels.
5. Replacing the bus duet with medium and small capacity at various situations.

Standards of the Products

GB/T12706-2008 and JG/T147-2002、GA306-2007、GB/T19666-2005

Type and specification



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

4.2 预制分支电力电缆型号如表 1

Type are form 1

表 1 Form 1

型号 Type	名称 Name
FZ-VV-0.6/1	额定电压 0.6/1kV 聚氯乙烯绝缘聚氯乙烯护套预制分支电力电缆 rated voltage 0.6/1kV PVC insulation and sheath pre-fabricated branched cable
FZ-ZR-VV-0.6/1	额定电压 0.6/1kV 聚氯乙烯绝缘聚氯乙烯护套阻燃预制分支电力电缆 rated voltage 0.6/1kV PVC insulation and sheath sheath flame-retardant pre-fabricated branched cable
FZ-NH-VV-0.6/1	额定电压 0.6/1kV 聚氯乙烯绝缘聚氯乙烯护套耐火预制分支电力电缆 rated voltage 0.6/1kV PVC insulation and sheath fire-fabricated branched cable
FZ-YJV-0.6/1	额定电压 0.6/1kV 交联聚乙烯绝缘聚氯乙烯护套预制分支电力电缆 rated voltage 0.6/1kV corss-linked polyethylene insulation and PVC sheath pre-fabricated branched cable
FZ-ZR-YJV-0.6/1	额定电压 0.6/1kV 交联聚乙烯绝缘聚氯乙烯护套阻燃预制分支电力电缆 rated voltage 0.6/1kV corss-linked polyethylene insulation and PVC sheath flame-retardant pre-fabricated branched cable
FZ-NH-YJV-0.6/1	额定电压 0.6/1kV 交联聚乙烯绝缘聚氯乙烯护套耐火预制分支电力电缆 rated voltage 0.6/1kV corss-linked polyethylene insulation and PVC sheath fir-retardant pre-fabricated branched cable
FZ-WDZ-YJY-0.6/1	额定电压 0.6/1kV 交联聚乙烯绝缘聚乙烯护套低烟无卤阻燃预制分支电力电缆 rated voltage 0.6/1kV corss-linked polyethylene insulation and polyolefin PVC sheath LSOH pre-fabricated branched cable
FZ-WDZN-YJY-0.6/1	额定电压 0.6/1kV 交联聚乙烯绝缘聚乙烯护套低烟无卤阻燃耐火预制分支电力电缆 rated voltage 0.6/1kV corss-linked polyethylene insulation and polyolefin PVC sheath LSOH fire-resistant pre-fabricated branched cable

4.3 预制分支电力电缆（主干线与表 2 所列相应的任一支线规格配接）

Prefabricated branch power cable (main cable can be connected with any branch cable of corresponding specification as listed in Table 2)

表 2 Form 2

主干电缆截面/mm ² main cable section/mm ²	支线电缆截面/mm ² branch cable section/mm ²									
10	6									
16	10	16								
25	10	16								
35	10	16	25							
50	10	16	25	35						
70	10	16	25	35	50					
95	10	16	25	35	50					
120	10	16	25	35	50	70				
150	10	16	25	35	50	70	95			
185	10	16	25	35	50	70	95			
240	10	16	25	35	50	70	95	120		
300	10	16	25	35	50	70	95	120		
400	10	16	25	35	50	70	95	120	150	
500	10	16	25	35	50	70	95	120	150	185
630	10	16	25	35	50	70	95	120	150	185
800	10	16	25	35	50	70	95	120	150	185
1000	10	16	25	35	50	70	95	120	150	185

注：绞合的预制分支电缆主干电缆的最大截面为 300mm²。

- 1、未做特别说明时，电缆额定电压（U₀/U）均为0.6/1kV铜导体单（多）芯低压电力电缆。
- 2、主干电缆均采用黑色护套电力电缆。
- 3、分支电缆无特别说明书时，均采用与主干电缆同型号的电力电缆。
- 4、分支电缆若要求采用色标（黄、红、绿、浅蓝、黄绿）的BV型电缆，应在订货时详细说明。

Note: The maximum sectional area of stranded branches and main lines is 300 mm².

1. Rated voltage(U₀/U) is 0.6kV of copper conductor single-core low voltage power cable, unless otherwise specified.
2. Black sheath power cable is employed as the main cable.
3. Power cable with the same model as the main cable is used for branch cable, unless otherwise specified.
4. If it is required to use BV cable with color marks (yellow, red, green, light blue and yellow green) as the branch cable, such particular requirements shall be detatiled in the order.



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6 要求

Require

5.1 一般要求

主干电缆和支线电缆应符合GB/T3956-2008、GB/T12076-2008、GB/T19666、GA306-2007以及JG/T147-2002中的相关标准的规定。

5.2 使用条件

5.2.1 预制分支电力电缆导体的最高额定温度；

交联聚乙烯绝缘为90℃

聚氯乙烯绝缘为70℃

5.2.2 短路时（最长持续时间不超过5s）电缆导体最高温度：

交联聚乙烯绝缘不超过250℃

聚氯乙烯绝缘不超过160℃

5.2.3 聚氯乙烯绝缘预制分支电力电缆敷设时环境温度应不低于0℃，容许弯曲半径为电缆外径的30倍。交联聚乙烯绝缘预制分支电力电缆容许弯曲半径应不小于电缆外径的30倍。

5.3 主干电缆导体截面积

5.3.1 当预制分支电力电缆垂直敷设时，为了保证强度，主干电缆的导体标称截面不宜小于10mm²；而水平敷设时，主干电缆标称截面可按需要选定。

5.3.2 预制分支电力电缆的型号规格应根据额定负载及使用环境要求来选择。

5.4 电缆主要技术参数如表3~表10。

5.1 General requirements

Both the main and branch cables shall be in conformity with related specifications prescribed in GB/T 3956-2008, GB/T 12076, GB/T 19666, GA306-2007 and JG/T 147-2002.

5.2 Working conditions

5.2.1 Max.temperature set for conductor of prefabricated power branch cable

Crosslinked PE insulation:90℃;

PVC insulation:70℃.

5.2.2 Max.temperature set for conductor of cable in the case of short circuit (lasting time not more than 5 seconds):

Crosslinked PE insulation: not more than 250℃;

PVC insulation: not more than 160℃.

5.2.3 When PVC insulated prefabricated power branch cable is laid, the ambient temperature shall not be less than 0℃ and the permitted bending radius shall be 30 times of the external diameter of the cable. For crosslinked PE insulated prefabricated power branch cable, the permitted bending radius is 30 times of the external diameter of the cable.

5.3 Sectional area of conductor of main cable

5.3.1 To ensure the strength, the sectional area of main cable's conductor shall not be less than 10 mm² when the prefabricated branch cable is laid vertically. However, the nominal sectional area of main cable can be selected on the basis of actual needs if the branch cable is laid horizontally.

5.3.2 The model of prefabricated branch cable shall be selected according to the rated load and required working conditions.

5.4 Cable's technical parameters, as shown in Table 3~ Table 10

表 3.0.6/1kV PVC 绝缘 PVC 护套单芯分支电缆技术参数

Table 3.0.6/1kV PVC sheathed single-core PVC insulated cable technical parameters

导体（圆形紧压） Conductor (roilud coarctation)		绝缘厚度 insulation nominal thickness mm	护套厚度 Thickness of sheath mm	外径 (约) O.D. mm	重量 (约) weight kg/km	交流试验 电压 Ac test vdtage kV/5 minutes	20℃ 最大 导体直流电阻 20℃ Max conductor D.C.resistance Ω/km	40℃ 时载流量 40℃ conrying capacity A	电压降率 Voltage drop (V/A·m)x10
标称截面 nominal section mm ²	直径 diameter mm								
10	4.1	1.0	1.8	9.7	178	3.5	1.83	71	2.0
16	5.1	1.0	1.8	11.0	245	3.5	1.15	94	1.3
25	6.2	1.2	1.8	12.4	357	3.5	0.727	122	0.84
35	7.2	1.2	1.8	13.4	461	3.5	0.524	151	0.63
50	8.7	1.4	1.8	15.3	601	3.5	0.387	183	0.49
70	10.3	1.4	1.8	16.9	818	3.5	0.268	231	0.36
95	11.9	1.6	1.8	18.9	1105	3.5	0.193	284	0.29
120	13.4	1.6	1.8	20.4	1352	3.5	0.153	327	0.24
150	14.8	1.8	1.8	22.2	1643	3.5	0.124	368	0.21
185	16.6	2.0	1.8	24.4	2034	3.5	0.0991	437	0.19
240	18.9	2.2	1.8	27.1	2624	3.5	0.0754	522	0.16
300	21.0	2.4	2.0	31.1	3263	3.5	0.0601	606	0.15
400	24.2	2.6	2.0	33.7	4208	3.5	0.0470	732	0.131
500	29.0	2.8	2.2	39.3	5245	3.5	0.0366	854	0.120
630	32.5	2.8	2.4	43.2	6597	3.5	0.0283	1024	0.111



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Shenzhen Gold Universal Wire & Cable Co., Ltd.

表 4. 0.6/1kV XLPE 绝缘 PVC 护套单芯分支电缆技术参数
Table 4. 0.6/1kV XLPE insulated PVC sheathed single-core cable branch technical parameters

导线 Conductor							20℃	1*	电压降率 (V/A·m)×10 ⁻³
标称 截面积 Nominal Crosssection mm ²	直径 Diameter mm	绝缘厚度 Insulation thichnes mm	护套厚度 Thickness of sheath mm	外径 (约) O.D. mm	重量 Weight kg/km	交流试验电压 kv/5分钟 Test voltag kv/5 minutes(AV)	最大导体 直流电阻 Max. resistance of conductor	40℃载流量 Reference at 40℃	
10	4.1	0.7	1.4	8.7	150	3.5	1.83	85	2.0
16	5.1	0.7	1.4	9.8	210	3.5	1.15	113	1.3
25	6.2	0.9	1.4	11.3	310	3.5	0.727	150	0.84
35	7.2	0.9	1.4	12.2	410	3.5	0.524	180	0.63
50	8.7	1.0	1.4	13.8	555	3.5	0.387	265	0.49
70	10.3	1.1	1.4	15.2	760	3.5	0.268	290	0.36
95	11.9	1.1	1.4	17.0	1020	3.5	0.193	345	0.29
120	13.4	1.2	1.6	19.0	1260	3.5	0.153	405	0.24
150	14.8	1.4	1.6	21.0	1570	3.5	0.124	460	0.21
185	16.6	1.6	1.6	23.0	1920	3.5	0.0991	530	0.19
240	18.9	1.7	1.7	26.0	2470	3.5	0.0754	640	0.16
300	20.1	1.8	1.8	29.0	3090	3.5	0.0601	725	0.15
400	24.2	2.0	2.0	32.0	4080	3.5	0.0470	845	0.131
500	29.0	2.2	2.2	38.5	5080	3.5	0.0366	970	0.120
630	32.5	2.4	2.4	43.0	6390	3.5	0.0283	1120	0.111

*1、此数据仅供参考，您的电力安装工程请聘请专业人士设计、安装、选用电缆，以策安全。
* 1. This data is only used for reference. To assure the safety, your electric engineering shall be conducted by the professionals in terms of the design, installation and the selection of cables.

表 5. VV 聚氯乙烯绝缘聚氯乙烯护套 4 芯分支电力电缆参数 (0.6/1kV)
Table 5. VV PVC insulated PVC sheathed power cable 4 core branch parameters (0.6/1kV)

导体标称 横截面积 Nominal cross sectional area of the conductor mm ²	绝缘厚度 Width of the insulation mm	护套厚度 Thickness of sheath mm	近似外径 approximate external diameter mm	近似重量 approximate weight kg/km	20℃ 导体 最大电阻 Max. resistance of conductor at 20℃ Ω/km	额定电流 A rated current A		电压降率 Voltage drop (V/A·m)×10 ⁻³
						空气中 in the air (aerial) 40℃	空气中 in the air (aerial) 30℃	
4×10	1.0	1.8	19.3	620	1.83	52	60	0.84
4×16	1.0	1.8	21.8	1010	1.15	70	80	0.69
4×25	1.2	1.8	25.7	1411	0.727	88	101	0.56
4×35	1.2	1.9	28.7	1835	0.524	110	126	0.50
4×50	1.4	1.9	29.5	2435	0.387	133	153	0.45
4×70	1.4	2.2	33.0	3271	0.268	170	196	0.39
4×95	1.6	2.3	38.1	4338	0.193	207	238	0.36
4×120	1.6	2.5	42.0	5383	0.153	240	276	0.32
4×150	1.8	2.6	45.7	6712	0.124	277	319	0.30
4×185	2.0	2.8	50.7	8207	0.0997	316	364	0.28
4×240	2.2	3.0	55.4	10850	0.0754	374	430	0.25
4×300	2.4	3.2	63.2	13647	0.0601	432	497	0.23



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表 8. VV 聚氯乙烯绝缘聚氯乙烯护套 4+1 芯分支电缆
Table 8. VV PVC insulated PVC sheathed cable core 4 + 1

导体标称 横截面积 Nominal cross sectional area of the conductor mm ²	绝缘厚度 Width of the insulation mm	护套厚度 Thickness of sheath mm	近似外径 approximate external diameter mm	近似重量 approximate weight kg/km	20℃ 导体 最大电阻 Max. resistance of conductor at 20℃ Ω/km	额定电流 A rated current A		电压降率 Voltage drop (V/A · m) × 10 ⁻³
						空气中 in the air (aerial) 40℃	空气中 in the air (aerial) 30℃	
4×10+1×6	1.0/0.8	1.8	20.4	720	1.83	52	60	0.64
4×16+1×10	1.0/1.0	1.9	23.3	1055	1.15	70	80	0.69
4×25+1×16	1.2/1.0	1.9	27.7	1578	0.727	88	101	0.56
4×35+1×16	1.2/1.0	1.9	30.6	1988	0.524	110	126	0.50
4×50+1×25	1.4/1.2	2.1	35.7	2688	0.387	133	153	0.45
4×70+1×35	1.4/1.2	2.2	40.3	3608	0.268	170	196	0.39
4×95+1×50	1.6/1.4	2.4	47.2	4636	0.193	207	238	0.36
4×120+1×70	1.6/1.4	2.5	51.7	6055	0.153	240	276	0.32
4×150+1×70	1.6/1.4	2.7	56.5	7384	0.124	277	319	0.30
4×185+1×95	2.0/1.6	2.9	63.0	6911	0.0991	317	384	0.28
4×240+1×120	2.2/1.6	3.1	70.9	11414	0.0754	374	430	0.25

表 8. YJV 交联乙烯绝缘聚氯乙烯护套 3+1 芯分支电力电缆参数
Table 8. YJV the ethylene cross-linked PVC insulation sheath 3 + 1 core branch power cable parameters

导体标称 横截面积 Nominal cross sectional area of the conductor mm ²	绝缘厚度 Width of the insulation mm	护套厚度 Thickness of sheath mm	近似外径 approximate external diameter mm	近似重量 approximate weight kg/km	20℃ 导体 最大电阻 Max. resistance of conductor at 20℃ Ω/km	额定电流 A rated current A		电压降率 Voltage drop (V/A · m) × 10 ⁻³
						空气中 in the air (aerial) 40℃	空气中 in the air (aerial) 30℃	
3×10+1×6	0.7/0.7	1.6	16.4	503	1.83	60	77	0.84
3×16+1×10	0.7/0.7	1.8	18.5	727	1.15	83	105	0.69
3×25+1×16	0.9/0.7	1.8	22.3	1092	0.727	105	125	0.56
3×35+1×16	0.9/0.7	1.8	24.8	1476	0.524	125	155	0.50
3×50+1×25	1.0/0.9	1.8	26.9	1907	0.387	160	185	0.45
3×70+1×35	1.1/0.9	1.9	30.9	2612	0.268	200	225	0.39
3×95+1×50	1.1/1.0	2.1	35.7	3469	0.193	245	270	0.36
3×120+1×70	1.1/1.1	2.2	39.5	4446	0.153	285	310	0.32
3×150+1×70	1.4/1.1	2.3	44.6	5383	0.124	325	345	0.30
3×185+1×95	1.6/1.1	2.5	48.7	6711	0.0991	375	390	0.28
3×240+1×120	1.7/1.1	2.7	54.9	8561	0.0754	440	450	0.25
3×300+1×150	1.6/1.4	2.9	62.9	11080	0.0601	505	515	0.23



表 8. YJV 交联乙烯绝缘聚氯乙烯护套 4 芯分支电力电缆参数

Table 8. YJV the ethylene cross-linked PVC insulated 4 core sheathed power cable branch parameters

导体标称 横截面积 Nominal cross sectional area of the conductor mm ²	绝缘厚度 Width of the insulation mm	护套厚度 Thickness of sheath mm	近似外径 approximate external diameter mm	近似重量 approximate weight kg/km	20℃ 导体 最大电阻 Max. resistance of conductor at 20℃ Ω/km	额定电流 A rated current A		电压降率 Voltage drop (V/A·m)×10 ⁻³
						空气中 in the air (aerial) 40℃	空气中 in the air (aerial) 25℃	
4×10	0.7	1.6	16.6	610	1.83	60	77	0.64
4×16	0.7	1.8	19.1	879	1.15	83	105	0.69
4×25	0.9	1.8	23.2	1286	0.727	105	125	0.56
4×35	0.9	1.8	25.5	2688	0.524	125	155	0.50
4×50	1.0	1.8	26.0	2341	0.387	160	185	0.45
4×70	1.1	2.0	29.0	3175	0.268	200	225	0.39
4×95	1.1	2.1	32.5	4171	0.193	245	270	0.36
4×120	1.2	2.3	36.0	5262	0.153	285	310	0.32
4×150	1.4	2.4	39.5	6542	0.124	325	345	0.30
4×185	1.6	2.6	45.0	7693	0.0991	375	390	0.28
4×240	1.7	2.8	50.0	10215	0.0754	440	450	0.25
4×300	1.8	3.0	56.0	11643	0.0601	505	515	0.23

表 9. YJV 交联乙烯绝缘聚氯乙烯护套 4+1 芯分支电力电缆技术参数

Table 9. YJV the ethylene cross-linked 4+1 insulated PVC sheathed power cable core branch of the technical parameters

导体标称 横截面积 Nominal cross sectional area of the conductor mm ²	绝缘厚度 Width of the insulation mm	护套厚度 Thickness of sheath mm	近似外径 approximate external diameter mm	近似重量 approximate weight kg/km	20℃ 导体 最大电阻 Max. resistance of conductor at 20℃ Ω/km	额定电流 A rated current A		电压降率 Voltage drop (V/A·m)×10 ⁻³
						空气中 in the air (aerial) 25℃	空气中 in the air (aerial) 40℃	
4×10+1×6	0.7/0.7	1.8	18.0	619	1.83	80	65	0.84
4×16+1×10	0.7/0.7	1.8	20.7	911	1.15	100	85	0.69
4×25+1×16	0.9/0.7	1.8	24.8	1359	0.727	130	115	0.56
4×35+1×16	0.9/0.9	1.8	26.8	1749	0.524	155	145	0.50
4×50+1×25	1.0/0.9	1.9	30.5	2387	0.387	185	175	0.45
4×70+1×35	1.1/0.9	2.0	36.5	3280	0.268	225	220	0.39
4×95+1×50	1.1/1.0	2.2	41.5	4407	0.193	270	270	0.36
4×120+1×70	1.2/1.1	2.4	46.1	5580	0.153	305	315	0.32
4×150+1×70	1.4/1.1	2.5	51.2	6803	0.124	345	360	0.30
4×185+1×95	1.6/1.1	2.6	56.8	8185	0.0991	390	420	0.28
4×240+1×120	1.7/1.1	2.8	63.2	10850	0.0754	455	500	0.25



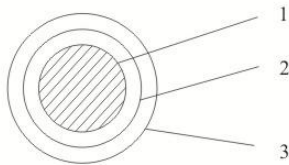
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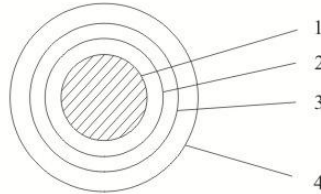


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- 1、导体；2、绝缘 (XLPE)；
3、护套（低烟、低毒、无卤聚烯烃）
1. Conductor; 2. Insulation (XLPE);
3. Sheath (low smoke, low toxicity and halogen free polyolefine)

无卤阻燃安全清洁型分支电缆结构
Structure of halogen free, fireproof, safe and green mode branch cable



- 1、导体；2、耐火层；3、绝缘 (XLPE)；
3、护套（低烟、低毒、无卤聚烯烃）
1. Conductor; 2. fire resistance;
3. Insulation (XLPE);
4. Sheath (low smoke, low toxicity and halogen free polyolefine)

无卤耐火清洁型分支电缆结构
Structure of halogen free, fireproof and green mode branch cable

表 10. 单芯清洁型预制分支电缆技术参数
Technical parameters of green mode single-core prefabricated branch cable

导线 wire Conductor			绝缘厚度 Width of the insulation	护套厚度 Thickness of sheath	护套总 外径 approximate external diameter	20℃ 导体电阻 Max. resistance of conductor at 20℃	近似重量 approximate weight	额定电流 rated current	额定电流 rated current	电电压率 Voltage drop
导体标称截面 Nominal cross sectional area of the conductor mm ²	结构 structure (N./mm)	近似外径 approximate external diameter mm	mm	mm	mm	Ω/km	kg/km	25℃ A	40℃ A	(V/A · m) × 10 ⁻³
10	7/1.35	4.05	0.7	1.4	9.5	1.83	155	85	75	2.0
16	7/1.70	4.7	0.7	1.4	10.0	1.15	210	113	90	1.3
25	圆形紧 压绞线 Round and pressed stranded cable	5.9	0.9	1.4	11.5	0.727	310	150	132	0.84
35		7.0	0.9	1.4	12.5	0.524	410	181	164	0.63
50		8.0	1.0	1.4	14.0	0.387	560	265	196	0.49
70		9.7	1.1	1.4	16.0	0.268	765	290	255	0.36
95		11.4	1.1	1.4	17.5	0.193	1010	347	310	0.29
120		12.8	1.2	1.5	19.5	0.153	1270	410	360	0.24
150		14.3	1.4	1.6	22	0.124	1580	470	419	0.21
185		15.8	1.6	1.6	24	0.0991	1930	530	479	0.19
240		18.3	1.7	1.7	26	0.0754	2490	640	565	0.16
300		20.5	1.8	1.8	29	0.0601	3090	725	643	0.15
400		23.3	2.0	1.9	32	0.0470	4070	845	771	0.131
500		26.4	2.2	2.0	36	0.0366	5050	980	940	0.120
630		30.2	2.4	2.2	40	0.0283	6350	1150	1130	0.111

注：其余参数与同类(VV、YJV)同截面、同芯数电力电缆相同。
说明：VV、YJV型电缆额定电流是标准敷设情况下的数据。

(1) 聚氯乙烯绝缘

- a、导体最高工作温度=70摄氏度
b、环境空气温度40摄氏度
c、地面温度25摄氏度
d、土壤热阻系数为1.0 k · m/w
e、埋地敷设深度0.5m

(2) 交联聚乙烯绝缘

- a、导体最高工作温度=90摄氏度
b、环境空气温度40摄氏度
c、地面温度25摄氏度
d、土壤热阻系数为1.0 k · m/w
e、埋地敷设深度0.5m

Note: 1. Other parameters are the same as the power cable with the same model (VV, YJV), sectional area and core number

2. The rated current of VV and YJV cables are used for the standard laying conditions.

(1) PVC insulation

- a. Max. working temperature of conductor: 70℃
b. Ambient air temperature: 40℃
c. Ground temperature: 25℃
d. Soil's heat resisting coefficient: 1.0 k.m/w
e. Underground-laying depth: 0.5m

(2) Cross-linked polyethylene insulation

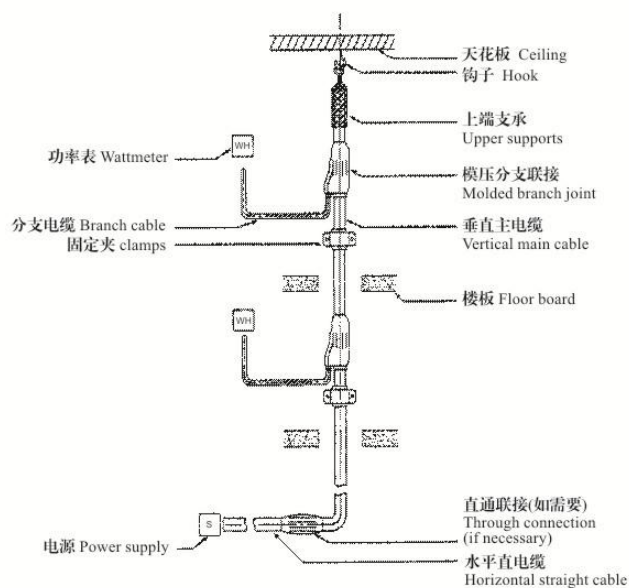
- a. Max. working temperature of conductor: 90℃
b. Ambient air temperature: 40℃
c. Ground temperature: 25℃
d. Soil's heat resisting coefficient: 1.0 k.m/w
e. Underground-laying depth: 0.5m

6 电缆的使用安装方法

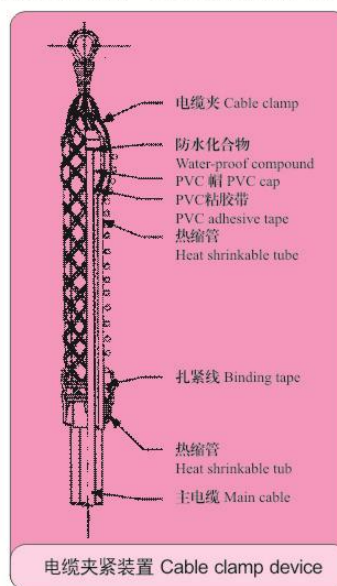
The usage of the electric cable installs a method

6.1 分支电缆安装示意

Installation diagram for the branch cables



电缆的顶端 Top end of the cable



敷設施工方法 Methods of laying down the cables

垂直干线的预制组装式分支电缆，一般应按以下要领进行敷设：

- 1、将电缆盘放在放线架上（通常电缆盘放在楼下，将电缆提拉上去）；
- 2、提升用的绳索通过卷绕机与电缆相连接；
- 3、开动卷绕机将电缆提升上去；
- 4、提升用的电缆网套到达房顶时，将网套挂在事先准备好的吊钩上；
- 5、对中间部进行固定；
- 6、将分支线端头与电流表或断路器相接；
- 7、进行与横向干线或主干线板的连接。

The assemble-type prefabricated branch cables for the vertical trunk line shall be laid down according to the following directions:

1. Put the cable reel to the wire-laying frame (Normally the cable reel are our on the ground floor, thus it shall be lifted up)
2. The lifting rope is connected with the cable through the winding machine.
3. Turn on the winding machine to lift the cable.
4. The net sheath of the cable for lifting reaches the top of the building, out net housing on the hook previously prepared.
5. Fix the middle part.
6. Connect the end of the branch cable with the current meter and circuit breaker.
7. Connect the transverse trunk line with the trunk line panel.



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施工中的注意事项 Precautions

预制组装式分支电缆敷设时需注意以下事项：

- 1、事先确认运送方法（车辆大小，停车场等）；
- 2、确认预制分支部分是否能安全通过贯通孔洞；
- 3、采取预防措施，防止提升过程中，分支部分经贯通孔洞受损伤；
- 4、提升过程中不要对分支施加张力；
- 5、使用电缆重量4倍以上强度的提升用绳索；
- 6、事先考虑避雨对策及空盘的处理方法；
- 7、电缆提升完毕后，应立即用适当的方法加以固定，以免电缆坠落受损；
- 8、单芯电缆禁止使用铁质夹具。

Precautions for laying down the assemble-type prefabricated branch cables:

1. Determine the transportation method ahead of the installation (including the type of the vehicle and the parking lot)
2. Check to see if the assemble-type prefabricated branch cables can pass through the holes which are normally set.
3. Take prevention measures so as to avoid the damage of the branch cables when they are passing through the related holes for lifting.
4. Don't apply tensile force to the branch cables during lifting.
5. The strength of the lifting rope shall be four times as much as the branch cables.
6. Take measures to avoid rain ahead of installation and figure out the bow to properly deal with the empty reels.
7. The cables shall be fixed properly after they are lifted so as to avoid damages by falling down.
8. Iron clamps are forbidden to use for the single-core cables.

訂貨須知 Notice for placing orders

为了设计您需求的分支电缆，请提供下列资料：

- 1、系统图和楼层标高部面图
垂直主电缆和各分支电缆的长度，分支连接的布置。
- 2、配电系统
单相双线，单相3线，三相3线，三相4线和三相5线。
- 3、垂直主电缆
电缆型号、规格、是否使用直通连接。
- 4、分支电缆
电缆规格（型号同主电缆）
- 5、敷设方法
从地面上拉起或由楼顶拉下
- 6、上端支承
用或不用电缆夹装置或悬吊绝缘装置。
- 7、附件
夹具、托架的规格及数量。
- 8、电缆盘具
允许的电盘具尺寸和毛重。
- 9、其它您认为需要的项目。

Please supply the following data so that we can design the branch cables you need:

1. Diagram for the system
The length of the vertical trunk line and the branch cables and the layout diagram for the connection of the branch cables.
2. Power distribution system
Single-phase two wire, Single-phase three-wire, Three-phase three-wire, Three-phase four-wire, Three-phase five-wire.
3. Vertical trunk line
Model of the cable, whether or not the straight-through link is needed.
4. Branch cables
cable specification (the same model with leader cable)
5. Method of laying
Lift from the ground or pull down from the top of the building.
6. Supporting of the upper part
Whether or not the clamp device for the cable or the suspension insulation device is needed.
7. Attachments
Clamps, supporting bracket, etc.
8. Cable reels
Allowable size and gross weight of the cable reels.
9. Other things you need to inform



通用橡套软电缆 (GB/T5013-2008、JB8735-1998) Universal cabtyre cable (GB/T5013-2008, JB8735-1998)

1 电缆型号、规格

Types of products

型号 type	额定电压U ₀ /UV rated voltage	芯数 core number	标称截面mm ² nominal section
245 IEC 53(YZ)	300/500	2、3、4、5、6 4 (三大一小)	0.75~6 0.75~6
245 IEC 57(YZW)	300/500	2、3、4、5、6 4 (三大一小)	0.75~6 0.75~6
YC	450/750	1	1.5~16
		2、3、4	1~10
		5	1~6
		4 (三大一小)	1~10
245 IEC 66(YCW)	450/750	1	1.5~16
		2、3、4	1~10
		5	1~6
		4 (三大一小)	1~10

2 产品制造标准

Product Manufacturing is Standards

GB5013-1997、JB8735-1998

3 产品使用特性

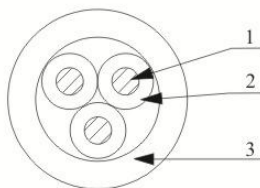
Operating Characteristics

电缆的长期允许工作温度应不超过 70℃，YZW、YCW型电缆具有耐气候和一定的耐油性，适宜于户外或接触油污的场合使用。

Long operating temperature of the cable is under 70℃. Types YZW and YCW are weatherproof and oil proof, therefore they are applicable to outdoors and oil existent place.

4 结构示意图

Structural representation



1、导体 1. conductor
2、绝缘 2. insulation
3、护套 3. sheath

5 主要技术参数

Technical parameters

300/500V 60245 IEC 53 (YZ)、60245 IEC 57 (YZW) 型橡套软电缆

300/500V 60245 IEC 53 (YZ)、60245 IEC 57 (YZW) model rubber-sheathed flexible cable

芯数×标称截面 core number× nominal section mm ²	20℃时导体直流 电阻电大值 Ω/km 200C Max. conductor DC resistance		电缆外径 cable outer diameter mm		电缆近似重量 cable approximat weight kg/km
	铜 芯 copper core	镀锡铜芯 tinning copper-core	最 小 Max	最 大 Min	
2×0.75	26.0	26.7	6.0	8.2	65
2×1	19.5	20.0	6.6	8.8	76
2×1.5	13.3	13.7	8.0	10.5	115
2×2.5	7.98	8.21	9.5	12.0	172
2×4	4.95	5.09	10.6	13.7	250
2×6	3.3	3.39	11.8	15.1	334
3×0.75	26.0	26.7	6.50	8.8	79
3×1	19.5	20.0	7.00	9.2	90
3×1.5	13.3	13.7	8.6	11.0	135



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60245 IEC 53(YZ)型橡套软线尺寸

60245 IEC 53 (YZ)-type rubber cord sets of size

1 芯数及导体 标称截面/mm ² Core number and nom- inal conductor cross- sectional area/mm ²	2 绝缘厚度规定值/mm Provisions of the value of the thickness of insulation / mm	3 护套厚度规定值/mm Sheath thickness of the provisions of the value / mm	4 平均外径/mm Average diameter/mm	
			下限 Minimum	上限 Ceiling
2×0.75	0.6	0.8	5.7	7.4
2×1	0.6	0.9	6.1	8.0
2×1.5	0.8	1.0	7.6	9.8
2×2.5	0.9	1.1	9.0	11.6
3×0.75	0.6	0.9	6.2	8.1
3×1	0.6	0.9	6.5	8.5
3×1.5	0.8	1.0	8.0	10.4
3×2.5	0.9	1.1	9.6	12.4
4×0.75	0.6	0.9	6.8	8.8
4×1	0.6	0.9	7.1	9.3
4×1.5	0.8	1.1	9.0	11.6
4×2.5	0.9	1.2	10.7	13.8
5×0.75	0.6	1.0	7.6	9.9
5×1	0.6	1.0	8.0	10.3
5×1.5	0.8	1.1	9.8	12.7
5×2.5	0.9	1.3	11.9	15.3

60245 IEC 57(YZW)型橡套软线尺寸

60245 IEC 57 (YZW)-type rubber cord sets of size

1 芯数及导体 标称截面/mm ² Core number and nom- inal conductor cross- sectional area/mm ²	2 绝缘厚度规定值/mm Provisions of the value of the thickness of insulation / mm	3 护套厚度规定值/mm Sheath thickness of the provisions of the value / mm	4 平均外径/mm Average diameter/mm	
			下限 Minimum	上限 Ceiling
2×0.75	0.6	0.8	5.7	7.4
2×1	0.6	0.9	6.1	8.0
2×1.5	0.8	1.0	7.6	9.8
2×2.5	0.9	1.1	9.0	11.6
3×0.75	0.6	0.9	6.2	8.1
3×1	0.6	0.9	6.5	8.5
3×1.5	0.8	1.0	8.0	10.4
3×2.5	0.9	1.1	9.6	12.4
4×0.75	0.6	0.9	6.8	8.8
4×1	0.6	0.9	7.1	9.3
4×1.5	0.8	1.1	9.0	11.6
4×2.5	0.9	1.2	10.7	13.8
5×0.75	0.6	1.0	7.6	9.9
5×1	0.6	1.0	8.0	10.3
5×1.5	0.8	1.1	9.8	12.7
5×2.5	0.9	1.3	11.9	15.3

60245 IEC 53(YZ)型橡套软线尺寸

60245 IEC 53 (YZ)-type rubber cord sets of size

芯数×标准 截面/mm ² Core number× Standard cross-section mm ²	导体中单线 最大直径 Maximum dia- meter of single -conductor mm	绝缘厚度 规定值 Provisions of the value of insulation thickness mm	护套厚度规定值 mm Provisions of the value of sheath thickness			平均外径 The average external diameter of		20℃时导体电阻最大值 Ω/km Conductor resistance at 20℃ max Ω/km	
			单层 Monolayer	双层 Double		下限 Minimum	上限 Ceiling	铜芯 Copper	镀锡铜芯 Tinned copper
				内层 Inner	外层 Outer				
1×1.5	0.26	0.8	1.4	-	-	5.7	7.1	13.3	13.7
1×2.5	0.26	0.9	1.4	-	-	6.3	7.9	7.98	8.21
1×4	0.31	1.0	1.5	-	-	7.2	9.0	4.95	5.09
1×6	0.31	1.0	1.6	-	-	7.9	9.8	3.30	3.39
1×10	0.41	1.2	1.8	-	-	9.5	11.9	1.91	1.95
1×16	0.41	1.2	1.9	-	-	10.8	13.4	1.21	1.24
1×25	0.41	1.4	2.0	-	-	12.7	15.8	0.780	0.795
1×35	0.41	1.4	2.2	-	-	14.3	17.9	0.554	0.565
1×50	0.41	1.6	2.4	-	-	16.5	20.6	0.386	0.393
1×70	0.51	1.6	2.6	-	-	18.6	23.3	0.272	0.277
2×1.5	0.26	0.8	1.5	-	-	8.5	11.0	13.3	13.7
2×2.5	0.26	0.9	1.7	-	-	10.2	13.1	7.98	8.21
2×4	0.31	1.0	1.8	-	-	11.8	15.1	4.95	5.09
2×6	0.31	1.0	2.0	-	-	13.1	16.8	3.30	3.39
2×10	0.41	1.2	3.1	-	-	17.7	22.6	1.91	1.95
3×1.5	0.26	0.8	1.6	-	-	9.2	11.9	13.3	13.7
3×2.5	0.26	0.9	1.8	-	-	10.9	14.0	7.98	8.21
3×4	0.31	1.0	1.9	-	-	12.7	16.2	4.95	5.09
3×6	0.31	1.0	2.1	-	-	14.1	18.0	3.30	3.39
3×10	0.41	1.2	3.3	-	-	19.1	24.2	1.91	1.95
4×1.5	0.26	0.8	1.7	-	-	10.2	13.1	13.3	13.7
4×2.5	0.26	0.9	1.9	-	-	12.1	15.5	7.98	8.21
4×4	0.31	1.0	2.0	-	-	4.0	7.9	4.95	5.09
4×6	0.31	1.0	2.3	-	-	15.7	20.0	3.30	3.39
4×10	0.41	1.2	3.4	-	-	20.9	26.5	1.91	1.95
四芯三大一小结构中									
3×2.5+1×1.5	0.26/0.26	0.9/0.8	2.0	-	-	11.9	15.2	7.98	8.21
3×4+1×2.5	0.31/0.26	1.0/0.9	2.0	-	-	13.6	17.4	4.95	5.09
3×6+1×4	0.31/0.31	1.0/1.0	2.2	-	-	15.2	19.4	3.30	3.39
3×10+1×6	0.41/0.31	1.2/1.0	3.0	-	-	19.4	24.6	1.91	1.95
5×1.5	0.26	0.8	1.8	-	-	11.2	14.4	13.3	13.7
5×2.5	0.26	0.9	2.0	-	-	13.3	17.0	7.98	8.21
5×4	0.31	1.0	2.2	-	-	15.6	19.9	4.95	5.09
5×6	0.31	1.0	2.5	-	-	17.5	22.2	3.30	3.39
5×10	0.41	1.2	3.6	-	-	22.9	29.1	1.91	1.95

注：四芯三大一小结构中接地线芯的直流电阻值与同型号相应截面主线芯相同。



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

60245 IEC 66(YCW)型橡胶套电缆的尺寸
60245 IEC 66 (YCW)-Type rubber sets the size of cable

1	2	3	4	5	6	7
芯数及导体 标称面积/mm ² Core number and nominal conductor cross-sectional area mm ²	绝缘厚度 规定值 Provisions of the value of insulation thickness mm	护套厚度规定值/mm Sheath thickness of the provisions of the value / mm			平均外径/mm Average diameter/mm	
		单层 Monolayer	双层 Double		下限 Minimum	上限 Ceiling
			内层 Inner	外层 Outer		
1×1.5	0.8	1.4	-	-	5.7	7.1
1×2.5	0.9	1.4	-	-	6.3	7.9
1×4	1.0	1.5	-	-	7.2	9.0
1×6	1.0	1.6	-	-	7.9	9.8
1×10	1.2	1.8	-	-	9.5	11.9
1×16	1.2	1.9	-	-	10.8	13.4
1×25	1.4	2.0	-	-	12.7	15.8
1×35	1.4	2.2	-	-	14.3	17.9
1×50	1.6	2.4	-	-	16.5	20.6
1×70	1.6	2.6	-	-	18.6	23.3
2×1	0.8	1.3	-	-	7.7	10.0
2×1.5	0.8	1.5	-	-	8.5	11.0
2×2.5	0.9	1.7	-	-	10.2	13.1
2×4	1.0	1.8	-	-	11.8	15.1
2×6	1.0	2.0	-	-	13.1	16.8
2×10	1.2	3.1	-	-	17.7	22.6
3×1	0.8	1.4	-	-	8.3	10.7
3×1.5	0.8	1.6	-	-	9.2	11.9
3×2.5	0.9	1.8	-	-	10.9	14.0
3×4	1.0	1.9	-	-	12.7	16.2
3×6	1.0	2.1	-	-	14.1	18.0
3×10	1.2	3.3	-	-	19.1	24.2
4×1	0.8	1.5	-	-	9.2	11.9
4×1.5	0.8	1.7	-	-	10.2	13.1
4×2.5	0.9	1.9	-	-	12.1	15.5
4×4	1.0	2.0	-	-	14.0	17.9
4×6	1.0	2.3	-	-	15.7	20.0
4×10	1.2	3.4	-	-	20.9	26.5
5×1	0.8	1.6	-	-	10.2	13.1
5×1.5	0.8	1.8	-	-	11.2	14.4
5×2.5	0.9	2.0	-	-	13.3	17.0
5×4	1.0	2.2	-	-	15.6	19.9
5×6	1.0	2.5	-	-	17.5	22.2
5×10	1.2	3.6	-	-	22.9	29.1

6 供货

Supply

交货长度成圈为100米，成盘长度应大于100米。允许长度不小于10m的短段交货。但其数量应不超过交货总长度的10%，根据双方协议，允许任何长度交货。长度计量误差应不超过±0.5%。

The circle length is 100m, and the coiling length is larger than 100m, We can supply you short wire no shorter than 10m, and the account should not larger than 10% of the total length. Otherwise we can supply any length according to our agreement, and the metering error is ± 0.5%.



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广东省著名商标

电焊机电缆

Electric Welder cable

1 用途

Purpose

适用于二次侧对地交流电压不超过200V和脉动峰值400V电焊机用二次侧接线及连接电焊钳用。

As the second side link and the connection of electrode holders, it is applicable to the arc welder in which AC voltage is under 200V and pulsant peak value is under 400V.

2 型号

Types

- 1、橡胶套电焊机电缆 60245 IEC 81(YH)
- 2、氯丁或其他相当的合成弹性体橡胶套电焊机电缆 60245IEC 82(YHF)

1. cabtyre covered electric welder cable 60245 IEC 81(YH)
2. chloroprene rubber or other man-made elastomer covered electric welder cable 60245 IEC 82(YHF)

3 产品使用特性

Operating Characteristics

电缆的长期允许工作温度应不超过 70℃。

Long operating temperature of the cable is under 70℃.

4 产品制造标准

Product Standards

GB/T5013-2008

GB/T5013-2008

5 性能结构

Structure

产品性能结构应符合表 1 规定。

The structure parameters are shown in table 1

标称截面 nominal section mm ²	平均外径上限 average outer diameter upper-limit mm	20℃时导体直流 电阻最大值 20℃Max conductor DC resistance Ω/km	电缆近似重量 cable approximate weight kg/km
10	9.7	1.91	151
16	11.5	1.16	226
25	13	0.758	325
35	14.5	0.536	434
50	17	0.379	602
70	19.5	0.268	826



深圳市金环宇电线电缆有限公司

Shenzhen Gold Universal Wire & Cable Co., Ltd.

通信电缆 Telecommunication cable

适用于电信工程布线，室内（外）电话通信电缆供通信系统中楼层布线系统之间的连接，也可用于通信出口（信息插座）与电信设备（如电话、传真等）之间的连接，在干扰较严重的区域使用屏蔽的电缆。

语音通信系统楼层之间主干线路的架设，推荐使用3类大对数的数字通信电缆，能很好地满足通信系统向未来数字化传输宽带通信（如数字电话）发展的需求。

多对数的局用通信电缆，采用数字电缆标准对绞节距生产，降低了线对间相互串音干扰，从而使线缆串音衰减减小，功率损耗小。用于程控交换局内总配线架与交接局用户之间的音频连接，也可用作其他交换设备之间的音频连接，可支持低速率的数据传输。连接包括数字电话、传真、程控交换机及其他通信用数字设备。4对用于电信工程布线的分支线路的连接，10对、20对、30对、50对、100对等用于主干线路的连接。

Applicable to telecommunication engineering cabling, and the indoor telephone communication cable is used for the connection between floor cabling systems in communication system, and can also be used for the connection between communication outlet (information outlet) and communication equipment (for example telephone, fax, etc), and shielded cable should be used in areas with serious interference.

As for the erection of basic routing line of speech communication system between floors, category 3 multi-pair data cables are recommended to be used, which can meet the demands for development of communication system to digital broadband communication (such as digital telephone) in the future.

Multi-pair central office cable adopts digital cables standard to produce twist pitch with digital cable standard, lowers the crosstalk interference between pairs, and thus decreases the cable crosstalk attenuation and power loss. The audio connection used between the main distributing frame in inner exchange office can be also used as the audio connection between other exchange equipment, supporting low bit-rate data transmission. The connecting equipment include digital telephone, fax, telephone exchange and other digital communication equipments. 4-pair cable is used for the connection of the branched line of telecommunication engineering cabling, and 10-pair cable, 20-pair cable, 30-pair cable, 50-pair cable, and 100-pair cable are for the connection for basic routing line.

1 市内通信电缆

结构：导体；O.F.C裸铜线(BC)实芯或绞合

绝缘：HDPE或PVC

屏蔽：（屏蔽型）排流线+铝箔绕包或纵包铝箔+编织

护套：白色或阻燃灰色PVC(室内)

黑色LDPE(室外)

标准：企业标准（参照）YD/T 840-1996，YD/T322-1996

用途：（室内）电缆采用对绞/星绞方式成缆，用于电话通信布线系统楼层布线架至用户电话住处出口之间的连接，也可用于程控交换机和分机之间的连接及其它通信设备之间的互连，用于用户终端电话、传真、数字电话、楼宇可视对讲系统。在环境干扰较严重的区域布线系统中使用带屏蔽的电话通信电缆。（室外）电缆主要用于传输音频150KHZ及以下的模拟信号和2048k bit/s及以下的数字信号。

Telephone communication cable

Construction: conductor: bare copper wire (BC) solid core or twisted

Insulation: HDPE or PVC

Shielding: (Shielding type) drain wire + aluminum foil coated or longitudinal aluminum foil coated + weaving

Sheath: white or green flame retardant PVC

Standard: enterprise standard (reference) YD/T 840-1996, YD/T322-1996

Purpose: The cable is made in the way of twisted pair/star quad stranding, is used for the connection between floor cabling systems in the telephone communication cabling system and the user's telephone outlet, used for the interconnection between telephone exchange and extension sets and between other communication equipment, and is used for terminal telephones, faxes, digital telephones, and visual building telecom systems. Shielded cable should be used in the cabling system in areas with serious interference.



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序号 NO	产品名称 Name	型号规格 Type	导体直径/mm Conductor No.	绝缘直径/mm Insulation Nom (mm)	屏蔽 Shield	成品外径/mm Cable NomDa(mm)	电缆参数重量 Reference weight of the cable kg/km
1	电话通信电缆(室内) Telephone communication cable(indoor)	HYV2×0.50	Φ0.50	PE Φ0.92	无 None	白色(White)PVC Φ3.1	14.1
2	电话通信电缆(室内) Telephone communication cable(indoor)	HYV2×0.40	Φ0.40	PE Φ0.80	无 None	白色(White)PVC Φ2.8	9.1
3	电话通信电缆(室内) Telephone communication cable(indoor)	HYV4×0.50	Φ0.50	PE Φ0.92	无 None	白色(White)PVC Φ3.5	19.0
4	电话通信电缆(室内) Telephone communication cable(indoor)	HYV4×0.40	Φ0.40	PE Φ0.80	无 None	白色(White)PVC Φ3.2	13.5
5	电话通信电缆(室内) Telephone communication cable(indoor)	HYV6×0.50	Φ0.50	PE Φ0.92	无 None	白色(White)PVC Φ4.5	25.2
6	电话通信电缆(室内) Telephone communication cable(indoor)	HYV6×0.40	Φ0.40	PE Φ0.80	无 None	白色(White)PVC Φ3.7	18.5
7	电话通信电缆(室内) Telephone communication cable(indoor)	HYV8×0.50	Φ0.50	PE Φ0.92	无 None	白色(White)PVC Φ4.8	31.0
8	电话通信电缆(室内) Telephone communication cable(indoor)	HYV8×0.40	Φ0.40	PE Φ0.80	无 None	白色(White)PVC Φ4.2	24.3
9	屏蔽电话通信电缆(室内) Shielded telephone Communication cable(indoor)	HYVP4×0.40	Φ0.40	PE Φ0.80	有 Have	白色(White)PVC Φ3.7	16.5
10	屏蔽电话通信电缆(室内) Shielded telephone Communication cable(indoor)	HYVP4×0.50	Φ0.50	PE Φ0.92	有 Have	白色(White)PVC Φ4.0	23
11	屏蔽电话通信电缆(室内) Shielded telephone Communication cable(indoor)	HYVP6×0.50	Φ0.50	PE Φ0.92	有 Have	白色(White)PVC Φ5.0	30.0
12	屏蔽电话通信电缆(室内) Shielded telephone Communication cable(indoor)	HYVP6×0.40	Φ0.40	PE Φ0.80	有 Have	白色(White)PVC Φ4.2	22.5
13	市内通信电缆(室内) Telephone communication cable (indoor)	HYV5×2×0.50 HYV5×2×0.40	Φ0.50 Φ0.40	PE Φ0.92 PE Φ0.80	无 None	黑色(Black)LDPE Φ7.2 黑色(Black)LDPE Φ6.5	64.7 41.0
14	市内通信电缆(室内) Telephone communication cable (indoor)	HYV10×2×0.50 HYV10×2×0.40	Φ0.50 Φ0.40	PE Φ0.92 PE Φ0.80	无 None	黑色(Black)LDPE Φ9.5 黑色(Black)LDPE Φ7.2	102 71.0
15	市内通信电缆(室内) Telephone communication cable (indoor)	HYV20×2×0.50 HYV20×2×0.40	Φ0.50 Φ0.40	PE Φ0.92 PE Φ0.80	无 None	黑色(Black)LDPE Φ11 黑色(Black)LDPE Φ9.5	159 117.5
16	市内通信电缆(室内) Telephone communication cable (indoor)	HYV30×2×0.50 HYV30×2×0.40	Φ0.50 Φ0.40	PE Φ0.92 PE Φ0.80	无 None	黑色(Black)LDPE Φ13.0 黑色(Black)LDPE Φ11	220 159
17	市内通信电缆(室内) Telephone communication cable (indoor)	HYV50×2×0.50 HYV50×2×0.40	Φ0.50 Φ0.40	PE Φ0.92 PE Φ0.80	无 None	黑色(Black)LDPE Φ16 黑色(Black)LDPE Φ13.0	336 261
18	市内通信电缆(室内) Telephone communication cable (indoor)	HYV100×2×0.50 HYV100×2×0.40	Φ0.50 Φ0.40	PE Φ0.92 PE Φ0.80	无 None	黑色(Black)LDPE Φ21.5 黑色(Black)LDPE Φ16	653 402

2 数字通信电缆

Digital communication cable

局域网 (LAN) 是构成高速信息网的基本单位, 将局部区域内的智能大厦、建筑物、基层单位, 甚至每个家庭接上信息调整公路, 与国内外联网交流信息和进行交往。

五类、超五类 (5e 类) 及六类对绞电缆是局域网综合布线系统中水平子系统所采用的水平电缆, 用于系统的工作区通信引出端与交接间的配线架之间的布线连接 (即通信接线盒至配线房之间的连接)。敷设于穿线管、电缆槽和天花板或地板隔层之内, 从而使系统支持语音、数据、文字、图像和视频等各种应用。

8 对、16 对、25 对及以上大对数对绞电缆是局域网综合布线系统中垂直 (主干) 布线子系统所采用的主干对绞电缆, 用于楼层配线架与建筑物、建筑群配线架之间的连接, 架设于建筑物弱电竖井之内, 户外型电缆支持于户外使用, 从而使系统支持语音、数据、文字、图像和视频等各种应用。

4 对超五类接插软线是局域网综合布线系统中工作区布线所采用的对绞电缆, 用于终端设备 (如 PC) 与通信引出端 (I/O 信息出口) 之间的连接。导体线芯采用绞合结构, 可供移动使用。

非屏蔽类线缆用于一般场合; 屏蔽类线缆采用特定工艺制造, 更适用于数据安全传输的要求, 适用于军队、医院、机场及电信间等高电磁干扰环境。

100 Ω 电缆按其最高传输频率有如下分类:

- 3 类电缆 16MHz
- 5 类电缆 100MHz
- 5e 类电缆 100MHz, 且支持双工应用
- 6 类电缆 250MHz

线缆符合国家通信行业标准, 同时也符合国际标准 EIA/TIA-568B 和 ISO/IEC 11801 要求。

Local Area Network (LAN) is a basic unit composing of the high-speed information network, connecting intelligent buildings, buildings, grass-root units, and even every family with the information highway, to exchange information with both home and abroad.

Category 5 twisted pair cable category 5e pair cable and category 6 twisted pair cable are horizontal cables adopted by horizontal subsystem in the LAN premises distribution system, being used for the cabling connection between the communication outlet terminal of the system working area and the distributing frame of cross connection closet (i.e. connection between the communication splice case and the cable hut). The cable is laid in cable gland, cable conduit and ceiling or floor interlayer, to make the cable support the applications of voice, data, text, image, video, etc.

Multi-pair data cable of 8 pair, 16 pair, 25 pair and more is the main twisted pair cable adopted by the vertical (main) cabling subsystem in the LAN premises distribution system, being used for the connection between the floor distributing frame and the buildings, and the complex distributing frame. Such cable is erected in the vertical well of light current, and the outdoor cable can be used outdoors, to make the cable support the applications of voice, data, text, image, video, etc.

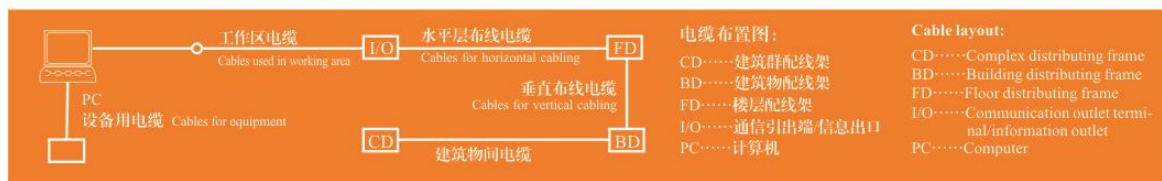
4-pair category 5+ patch cord is the twisted pair cable adopted by the working area cabling in the LAN premises distribution system, and is used for the connection between the user terminal equipment (such as PC) and the communication outlet terminal (I/O). The cable core is twisted for mobile use.

Unshielded cable is usually used for common cases; shielded cable is made with specific technology, more applicable to the demands for transporting data safely, and applicable to the strong electromagnetic environment such as military, hospitals, airports and across telecommunications.

100 Ω Cables are classified into the following according to their highest transmission frequency:

- Category 3 cable 16MHz
- Category 5 cable 100MHz
- Category 5e cable 100MHz and support the duplex application
- Category 6 cable 250MHz

The cables meet the national communication industry standards and the demands of international standards of EIA/TIA-568B and ISO/IEC 11801





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产品名称 型号 Product name Type	HSGYV-3(三类) HSGYV-3(Cat 3)	HSYV-5(五类) HSYV-5(Cat 5) (UTP-5)	HSYV-5e(超五类) HSYV-5e(Traditional Cat 5) (UTP-5)	HSYV-6(六类) HSYV-5e(Cat 6)
产品结构 Product structure	导体: OFC裸铜线(BC) 实芯或绞合 $\Phi 0.50\text{mm}$ 或 $7/0.20$ 绝缘: HDPE $\Phi 0.93\text{mm}$ 护套: 阻燃灰色PVC或 黑色LDPE Conductor: OFC bare copper wire(BC) solid core or twisted 0.5mm or 7/0.20 Insulation: HDPE 0.93mm Sheath: grew flame retardant PVC or black PE	导体: OFC裸铜线(BC) 实芯 $\Phi 0.50\text{mm}$ 绝缘: HDPE $\Phi 0.93\text{mm}$ 护套: 阻燃灰色PVC Conductor: OFC bare copper wire(BC) solid core or twisted 0.5mm Insulation: HDPE 0.93mm Sheath: grew flame retardant PVC	导体: OFC裸铜线(BC) 实芯 $\Phi 0.52\text{mm}$ 绝缘: HDPE $\Phi 0.93\text{mm}$ 护套: 阻燃灰色PVC Conductor: OFC bare copper wire(BC) solid core or twisted 0.52mm Insulation: HDPE 0.93mm Sheath: grew flame retardant PVC	导体: OFC裸铜线(BC) 实芯 $\Phi 0.60\text{mm}$ 绝缘: HDPE $\Phi 1.0\text{mm}$ 护套: 阻燃灰色(黄色)PVC Conductor: OFC bare copper wire(BC) solid core or twisted 0.60mm Insulation: HDPE 1.0mm Sheath: grew flame retardant PVC or yellow
产品标准 Product standard	YD/T 838.4-1997	YD/T 1019-2001	YD/T 1019-2001	YD/T 1019-2001
	数字通信电缆用于大楼综合布线系统中工作区域通信引出端与交接间的配线架之间,屏蔽类线缆用于环境干扰较严重的场合。用于宽带通信进行语音传输、数据传输、接入高速因特网及多媒体传输。 Digital communication cables are used between the communication outlet terminal of the working area in building premises distribution system and the distributing frame cross connection closet, while shielded cables are used in the environment with serious interference. Such cables are used to perform voice transmission, data transmission and access to high-speed internet and multimedia transmission.	应用于大楼纵使布线系统中工作区通信引出端与交接间的配线架之间的布线,以及住宅综合布线系统中的用户通信引出端到配线架之间的布线,满足于100MHZ的数据通信。 The cabling between the communication outlet terminal of the working area in building premises distribution system and the connection closet and between the user communication outlet terminal in building premises distribution system and the distributing frame meets the data communication of 100MHZ.	用于大楼综合布线系统中工作区通信引出端与交接间的配线架之间的布线以及住宅综合布线系统的用户通信引出端到配线架之间的布线,满足于155MHZ的数据通信,在100MHZ的系统应用中支持双工应用,同时为系统提供8MHZ以上宽带余量,保证系统有更高的传输速率。 The cabling between the communication outlet terminal of the working area in building premises distribution system and the distributing frame and between the user communication outlet terminal in building premises distribution system and the distributing frame meets the data communication of 155MHZ, support double function application in the system of 100MHZ, and provide broadband allowance of 8MHZ or more to the system, insuring the system's higher rate of transmission.	用于大楼综合布线系统中工作区通信引出端与交接间的配线架之间的布线,以及住宅综合布线系统的用户通信引出端到配线架之间的布线,满足于高速局域网,满足于250MHZ信道宽带的通信,十字形导线分隔条设计增进近端串扰(NEXT)和阻抗性能,增加带宽和信噪比余量,采用T568A或T568B接线方式端接。共享五类、超五类连接配件。 The cabling between the communication outlet terminal of the working area in building premises distribution system and the connection closet and between the user communication outlet terminal in building premises distribution system and the distributing frame is used in the high-speed local area network, meets the data communication of 155MHZ. The dividing strip design on the crisscross cable enhances the near-end crosstalk (NEXT) and the impedance capability, increase band width and the allowance of S/N ratio, adopts T568A/T568B connecting mode, and shares category 5 and category 5+ connecting fittings.



有线电视系统物理发泡聚乙烯绝缘同轴电缆 Cable TV system coaxial cable with physically foamed polyethylene insulation

适用于有线电视系统用干线、分支线和用户线及其它电子装置用物理发泡聚乙烯绝缘同轴电缆。

The cable is applicable to the main line, branch line and user line for cable TV system, and the coaxial cable with physically foamed polyethylene insulation used by other electronic equipments.

1 型号

Type

电缆的型号和名称见表 1

The type and name of the cable are shown in Figure 1

2 产品标记

Product marking

产品标记由名称、型号和标准编号组成。

The product marking in the technical document is composed of the name, the type and the standard number.

如：绝缘外径为4.8mm，特性阻抗为 75 Ω 的物理发泡聚乙烯绝缘、聚氯乙烯护套同轴电缆，其表示为：

For example: Coaxial cable with physically foamed polyethylene insulation and polyvinyl chloride sheath with 4.8mm outer diameter of the insulation and 75 Ω characteristic impedance is represented in the following:

I 类：物理发泡聚乙烯绝缘同轴电缆

SYWV-75-5- I, GY/T135-1998

Category I: Coaxial cable with physically foamed polyethylene insulation is SYWV-75-5- I, GY/T135-1998

II 类：物理发泡聚乙烯绝缘同轴电缆

SYWV-75-5, GY/T135-1998

Category II: Coaxial cable with physically foamed polyethylene insulation is SYWV-75-5, GY/T135-1998

表 1 电缆的型号和名称

Figure 1 Type and name of the cable

型 号 Type	名 称 Name
SYWV-75-5-I SYWV-75-7-I SYWV-75-9-I SYWV-75-5 SYWV-75-7 SYWV-75-9	有线电视系统物理发泡聚乙烯绝缘、聚氯乙烯护套同轴电缆 Cable TV system coaxial cable with physically foamed polyethylene insulation and polyvinyl chloride sheath
SYWV-75-5-I SYWV-75-7-I SYWV-75-9-I SYWV-75-5 SYWV-75-7 SYWV-75-9	有线电视系统物理发泡聚乙烯绝缘、聚乙烯护套同轴电缆 Cable TV system coaxial cable with physically foamed polyethylene insulation and polyvinyl chloride sheath
SYWV-75-5-I SYWV-75-12-I SYWV-75-13-I SYWV-75-9 SYWV-75-12 SYWV-75-13	有线电视系统物理发泡聚乙烯绝缘、铝管外导体、聚乙烯护套同轴电缆 Cable TV system coaxial cable with physically foamed polyethylene insulation with physically sheath and aluminum tube outer conductor and polyethylene sheath
注：SYWV-75-5-I, SYWV-75-7-I, SYWV-75-9-I, SYWV-75-5, SYWV-75-7, SYWV-75-9, SYWV-75-12-I, SYWV-75-13-I为I类电缆。 Note: SYWV-75-5-I, SYWV-75-7-I, SYWV-75-9-I, SYWV-75-5, SYWV-75-7, SYWV-75-9, SYWV-75-12-I, and SYWV-75-13-I are Category I cables.	



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3 产品结构

Structure diagram

3.1 物理发泡聚乙烯绝缘同轴电缆结构示意图见图 1:

The structure diagram of coaxial cable with physically foamed polyethylene insulation is shown if Figure 1:

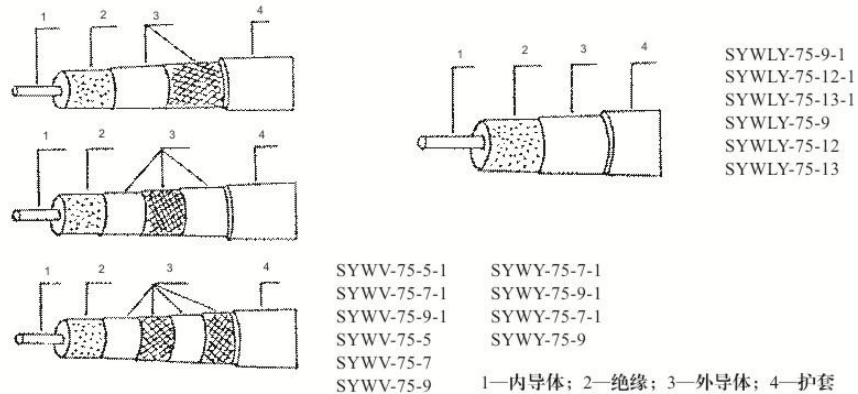


图 1 结构示意图

3.2 结构 Structure

电缆的结构尺寸应符合表 2 的规定。

The structural size of the cable should meet the regulations if Figure 2.

表 2 电缆的结构尺寸

Figure2

The structural size of the cable

单位: mm

型号 Model	项目 Item	内导体 inner conductor	绝缘 insulation	外导体 semi-conductor	护套 sheath	
	说明 Description	单根圆铜线 或铜包铝线 或铜包钢线 single round copper wire or copper clad aluminum or copper clad steel	物理发泡聚乙烯 polyethylene	铝塑复合膜和镀锡圆铜线或铝合金线编织 编织线标称直径: 0.12~0.18 编织密度 $\leq 45^\circ$ 填充系数 ≥ 0.42 铝管厚度 ≥ 0.35 Braided with Al/plastic compound film and tin-plated round copper wire or aluminum alloy wire nominal diameter of braid wire: 0.12~0.18 braid density $\leq 45^\circ$ fill coefficient ≥ 0.42 thickness of aluminum pipe ≥ 0.35	聚氯乙烯 或聚乙烯 PVC or polyethylene	
	技术要求 Technical requirement	直径 Diameter	直径 Diameter	直径 Diameter	厚度 Thick- ness	直径 Diamete- r
SYWV-75-5-1 SYWV-75-5	最小 Min	0.98	4.60		0.69	6.9
	标称 Nominal	1.00	4.80		0.88	7.2
	最大 Max	1.02	5.00	5.8		7.5
SYWV-75-7-1 SYWY-75-7-1 SYWV-75-7 SYWY-75-7	最小 Min	1.64	7.00		0.85	10.0
	标称 Nominal	1.66	7.25		1.05	10.3
	最大 Max	1.68	7.50	8.3		10.6
SYWV-75-9-1 SYWY-75-9-1 SYWLY-75-9-1 SYWV-75-9 SYWY-75-9 SYWLY-75-9	最小 Min	2.12	8.75		0.90	12.0
	标称 Nominal	2.15	9.00		1.15	12.3
	最大 Max	2.18	9.25	10.3		12.6
SYWLY-75-12-1 SYWLY-75-12	最小 Min	2.74	11.20		1.00	14.8
	标称 Nominal	2.77	11.50		1.30	15.1
	最大 Max	2.80	11.80	12.8		15.4
SYWLY-75-13-1 SYWLY-75-13	最小 Min	3.12	12.78		1.00	15.53
	标称 Nominal	3.15	13.03		1.30	15.78
	最大 Max	3.18	13.28	13.83		16.03



4 电气性能

Electrical specification

导体的连续性应符合 GB/T12269 第 8 条的规定，其它电气性能应符合表 3 的规定。

The continuity of the conductor should meet the clause 8 in GB/T12269, and other electrical specifications should meet the regulations in Figure 3.

表 3 电缆的电气性能

Figure 3 Electrical specification of the cable

型号 Model	项目 Item	缆 芯 介电强度 Cable core Dielectric strength	绝缘电阻 Insulation resistance		护套介电强度 Sheath Dielectric strength	特性阻抗 Character- istic impedance	衰减常数 Attenuation constant	回波损耗 Return Loss	屏蔽衰减 Shielding attenuation
	试验条件 Test condition	40~60 Hz 1 min	500V (直流) 20℃		40~60 Hz	200MHz			
	单位 Unit	kV (有效值)	MΩ · km		kV (有效值)	Ω	dB/100m	dB	dB
	技术要求 Technical requirement			浸水试验 Soaking test	火花试验 Spark test				
SYWV-75-5-I		≥1.2	≥5000	≥2.0	≥3.0	75±3.0	5 MHz≤2.0 50 MHz≤4.7 200 MHz≤9.0 550 MHz≤15.8 800 MHz≤19.0 1000 MHz≤22.0	300 MHz 及以下: ≥22 300 MHz 以上: ≥20	5 MHz≥85 50 MHz≥85 200 MHz≥90 500 MHz≥90 800 MHz≥90
SYWV-75-5							5 MHz≤2.2 50 MHz≤4.8 200 MHz≤9.7 550 MHz≤16.8 800 MHz≤20.3 1000 MHz≤24.2	300 MHz 及以下: ≥20 300 MHz 以上: ≥18	5 MHz≥60 50 MHz≥60 200 MHz≥70 500 MHz≥70 800 MHz≥70
SYWV-75-7-I SYWY-75-7-I		≥1.0	≥5000	≥3.0	≥5.0	75±2.5	5 MHz≤1.3 50 MHz≤3.0 200 MHz≤5.8 550 MHz≤10.3 800 MHz≤12.8 1000 MHz≤14.4	300 MHz 及以下: ≥22 300 MHz 以上: ≥20	5 MHz≥85 50 MHz≥85 200 MHz≥90 500 MHz≥90 800 MHz≥90
SYWV-75-7 SYWY-75-7							5 MHz≤1.5 50 MHz≤3.2 200 MHz≤6.4 550 MHz≤10.7 800 MHz≤13.3 1000 MHz≤15.1	300 MHz 及以下: ≥20 300 MHz 以上: ≥18	5 MHz≥60 50 MHz≥60 200 MHz≥70 500 MHz≥70 800 MHz≥70
SYWV-75-9-I SYWY-75-9-I		≥1.0	≥5000	≥2.0	≥3.0	75±2.5	5 MHz≤1.0 50 MHz≤2.3 200 MHz≤4.5 550 MHz≤8.0 800 MHz≤9.9 1000 MHz≤11.3	300 MHz 及以下: ≥22 300 MHz 以上: ≥20	5 MHz≥85 50 MHz≥85 200 MHz≥90 500 MHz≥90 800 MHz≥90
SYWV-75-9 SYWY-75-9							5 MHz≤1.2 50 MHz≤2.4 200 MHz≤5.0 550 MHz≤8.5 800 MHz≤10.4 1000 MHz≤11.9	300 MHz 及以下: ≥20 300 MHz 以上: ≥18	5 MHz≥60 50 MHz≥60 200 MHz≥70 500 MHz≥70 800 MHz≥70



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续表 3 电缆的电气性能 (完)

Figure 3 Electrical specification of the cable (finished)

项目 Item 试验条件 Test condition 单位 Unit 技术要求 Technical requirement 型号 Model	缆芯 介电强度 Cable core Dielectric strength	绝缘电阻 Insulation resistance	护套介电强度 Sheath Dielectric strength		特性阻抗 Characteri- stic impedance	环路电阻 Loop line resistance	衰减常数 Attenuation constant	回波损耗 Return Loss	屏蔽衰减 Shielding attenuation
	40~60 Hz 1 min	500V (直流) 20℃	40~60 Hz		200MHz				
	kV (有效值)	MΩ·km	kV (有效值)		Ω	Ω/km	dB/100m	dB	dB
			浸水试验 Soaking test	火花试验 Spark test					
SYWLY-75-9-I	≥1.0	≥5000	≥2.0	≥3.0	75±2.5	≤10.7	5 MHz≤1.0 50 MHz≤2.3 200 MHz≤4.5 550 MHz≤8.0 800 MHz≤9.9 1000 MHz≤11.3	300 MHz 及以下: ≥22 300 MHz 以上: ≥20	5 MHz≥100 50 MHz≥100 200 MHz≥110 500 MHz≥110 800 MHz≥110
SYWLY-75-9							5 MHz≤1.2 50 MHz≤2.4 200 MHz≤5.0 550 MHz≤8.5 800 MHz≤10.4 1000 MHz≤11.9	300 MHz 及以下: ≥20 300 MHz 以上: ≥18	5 MHz≥90 50 MHz≥90 200 MHz≥100 500 MHz≥100 800 MHz≥100
SYWLY-75-12-I	≥1.6	≥5000	≥3.0	≥5.0	75±2.0	≤7.1	5 MHz≤0.6 50 MHz≤1.7 200 MHz≤3.5 550 MHz≤6.0 800 MHz≤7.4 1000 MHz≤8.5	300 MHz 及以下: ≥22 300 MHz 以上: ≥20	5 MHz≥100 50 MHz≥100 200 MHz≥110 500 MHz≥110 800 MHz≥110
SYWLY-75-12S							5 MHz≤0.7 50 MHz≤1.9 200 MHz≤3.9 550 MHz≤6.7 800 MHz≤8.2 1000 MHz≤9.5	300 MHz 及以下: ≥20 300 MHz 以上: ≥18	5 MHz≥90 50 MHz≥90 200 MHz≥100 500 MHz≥100 800 MHz≥100
YWLY-75-13-I	≥1.6	≥5000	≥3.0	≥5.0	75±2.0	≤5.9	5 MHz≤0.5 50 MHz≤1.5 200 MHz≤3.0 550 MHz≤5.2 800 MHz≤6.3 1000 MHz≤8.0	300 MHz 及以下: ≥22 300 MHz 以上: ≥20	5 MHz≥100 50 MHz≥100 200 MHz≥110 500 MHz≥110 800 MHz≥110
SYWLY-75-13							5 MHz≤0.6 50 MHz≤1.6 200 MHz≤3.2 550 MHz≤5.4 800 MHz≤6.6 1000 MHz≤8.4	300 MHz 及以下: ≥20 300 MHz 以上: ≥18	5 MHz≥90 50 MHz≥90 200 MHz≥100 500 MHz≥100 800 MHz≥100

5 环境条件

Ambient condition

环境温度: -25~+70℃ (聚氯乙烯护套)

-40~+70℃ (聚乙烯护套)

相对湿度: 当温度为40±2℃时, 为90%~95%;

气候和机械耐久性:

电缆的气候和机械耐久性性能应符合表4的规定。

Ambient temperature:-25~+70℃ (polyvinyl chloride sheath)

-40~+70℃ (polyethylene sheath)

Relative humidity:90%~95%when the temperature is40±2℃

Weather and mechanical durability:

The weather and mechanical durability of the cable should meet the regulation in Figure 4.

表 4 电缆的气候和机械耐久性性能

Figure 4 The weather and mechanical durability of the cable

试验项目 Test item	试验条件 Test condition	技术条件 Technical condition
高温试验 High temperature test	80±2℃, 168h	绝缘和护套材料无机械损伤 The insulation and the sheath are not damaged mechanically.
低温试验 Low temperature test	-25±3℃, 20h (PVC护套) -25±3℃, 20h (PVCsheath) -40±3℃, 20h (PE护套) -40±3℃, 20h (PE sheath)	
湿热试验 Warm temperature test	40±2℃, 90%~95% 96h	
弯曲试验 Bending test	室温下 (铝管外导体) At the room temperature(aluminum tube ouler conductor)	
		绝缘电阻符合规定值, 衰减增量≤5%, 护套及外导体应不开裂。 The insulation resistance meets the specified value, with attenuation increment ≤5%,and the sheath and the outer conductor should not be split.

6 标志

Symbol

电缆的标志应符合 GB/T 12269 第 30 条的规定, I 类电缆必须印有以米为单位的长度标志。

The cable symbols shall comply with the regulations in Article 30 of GB/T 12269. The length symbol with the unit of meter shall be printed on Type I cables.

部份工程实例：



广州亚运会海心沙工程

深圳市地王大厦



广东海洋大学

深圳大亚湾核电站



广州新白云国际机场



深圳市会展中心

广州碧桂园三期

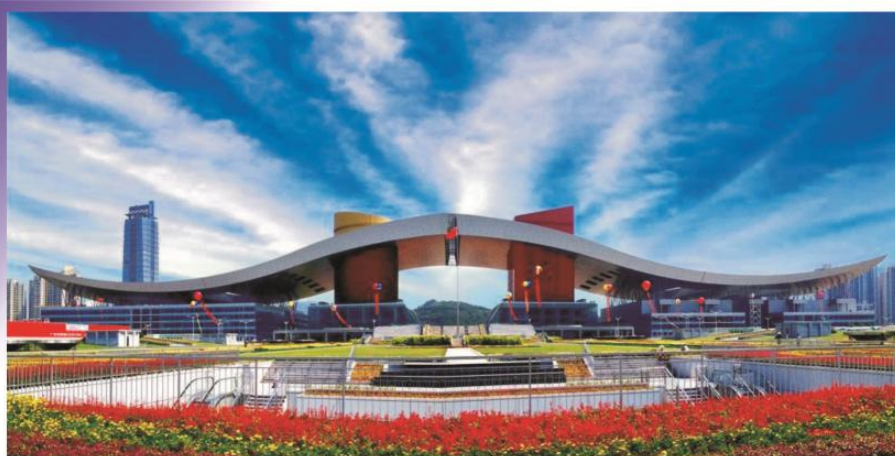


广东珠海电厂

东莞市政府大楼



深圳宝安国际机场二期工程



深圳市民中心

部份使用单位及大型工程项目一览表 Some of use Units and Large Projects Table

深圳前湾发电厂工程	广州亚运会场馆工程	东莞会展中心工程
深圳大鹏核电站工程	广州天河大厦工程	东莞汽车总站、南城车站
深圳宝安国际机场扩建工程	广州海洋大学工程	东莞疾控中心工程
深圳市民广场工程	广州大学城工程	东莞国际汽车城工程
深圳大运会场馆工程	广州电力调度大厦	东莞金地地产项目工程
深圳五洲宾馆改造工程	广州统一集团工程	东莞富盈地产项目工程
深圳高交会馆项目工程	广州金地荔湖城项目工程	东莞第一国际项目工程
深圳高铁龙华北站工程	广州科学城信息工程	东莞天安数码城项目工程
深圳地铁三号线工程	广州新光快速路灯工程	东莞佳兆业地产项目工程
深圳盐坝高速公路工程	广州番禺区中心医院	东莞东城地王工程
深圳北环大道改造工程	广州番禺区疾控中心	东莞樟木头75235部队工程
深圳蛇口西部通道工程	广州番禺雅居乐项目工程	东莞市新人民医院
深圳万科地产项目工程	广州番禺清华科技园创新基地	东莞望牛墩高级中学
深圳金地地产项目工程	广州碧桂园三期工程	东莞自来水公司
深圳鸿荣源地产项目工程	广州珠江帝景工程	东莞中堂中心小学
深圳中航地产项目工程	广州科学城信息工程学院	东莞达鑫地产项目工程
深圳绿景地产项目工程	广州摩登百货工程	东莞唯美陶瓷集团
深圳信义地产项目工程	广州花都区美都化妆基地工程	东莞步步高电子集团
深圳宝能地产集团工程	广州花都地铁工程	东莞九龙纸业集团
深圳天安数码城项目工程	广东穗港消防有限公司工程	东莞莎米特箱包有限公司
深圳合正地产项目工程	广东珠海电厂工程	东莞清溪凤凰花园工程
深圳龙光地产集团项目工程	珠海人民西路改建工程	东莞广深港铁路专线
深圳天健集团市政安装公司	珠海前山河改建工程	东莞市图书馆
深圳恒丰地产项目工程	珠海北师大珠海校区	东莞星河传说二期工程
深圳海吉星公司物流园工程	珠海农副产品批发市场	东莞长安国际大酒店工程
深圳福永宝利来大酒店工程	珠海联通基站工程	惠州中心体育场
深圳市深南电路有限公司	珠海吉大污水处理厂	惠州金山跳水馆
深圳市比克电池有限公司	珠海中国农业银行	惠州大学工程项目
深圳华南城项目工程	珠海湾仔中学工程	惠州报业集团工程
深圳海上田园风光	珠海金山城工程	惠州会展中心
深圳洪涛装饰有限公司	珠海金色九洲工程	惠州雅居乐项目工程
深圳广田装饰有限公司	珠海维业渔具有限公司工程	惠州中信地产项目工程
深圳富士康集团工程	珠海大华飞捷工业园工程	惠州方直地产项目工程
深圳华为集团工程	珠海旭日湾花园工程	惠州国惠康大酒店
深圳中兴集团工程	珠海春泽名园工程	惠州三星电子工程
深圳光明集团工程	珠海鸿雅花园工程	惠州普利斯特通轮胎工程
深圳创维集团工程	珠海金鼎民科技园工程	惠州光辉国际工程
河源市新人民医院	粤赣高速公路工程	惠州汽车博览中心
河源市人防办公大楼	河源市紫金行政服务大楼	惠州罗浮山75215部队工程
河源市劳动局工程	河源市技工学院工程	惠州德赛集团工程
河源市民政局工程	河源市检学院工程	惠州第三人民医院、妇幼保健院
河源市公安局工程	河源市职业学院工程	惠州龙湖花园项目工程
河源市地税局工程	河源市紫金行政服务大楼	惠州淡水万城项目工程
河源市人大办公大楼工程	河源市长虹花园工程	惠州淡水大峡谷工程

部份使用单位及大型工程项目一览表 Some of use Units and Large Projects Table

中山市电力调度大厦	江西电网公司工程	海南省海口电力综合楼
中山雅居乐置业项目工程	南昌市公安局指挥中心大楼	海南省安全厅工程
中山万科地产项目工程	南昌市华东交通大学工程	海南省海口市市政大楼工程
中山远洋城工程	南昌大学新校区工程	海南省海口市新外滩复兴城
中山圣都地产清华坊工程	南昌市西雅图国际会馆	海南省万宁市公园工程
中山喜来登大酒店工程	南昌皇岗国际大酒店	海南省洋浦保税金海纸浆厂
中山城区领东上筑花园	南昌市九里象湖城工程	海南省海口市万国大都会
中山蓝波湾二期工程	南昌市深圳农产品批发市场	海口秀英区水云天工程
中山城区中信左岸工程	南昌市联泰地产工程	海口龙华区金外滩花园工程
中山城区朗晴家园	赣州供电局工程	海口秀英区黄金海岸花园别墅工程
中山城区大信海岸家园	赣州南方理工大学工程	三亚华源温泉渡假酒店工程
佛山千灯湖改造工程	赣州市科技馆工程	三亚东和海南福湾工程
佛山市怡翠玫瑰园	赣州路灯管理所工程	三亚湾海居国际度假屋工程
佛山市兴华房地产有限公司	赣州市中国建设银行工程	三亚金中海蓝钻工程
佛山市嘉悦名都花园	上饶市供电局工程	琼海市博鳌假日海岸工程
佛山天域陶瓷有限公司	上饶市西湖大酒店工程	武汉国营7435兵工厂工程
佛山中国陶瓷城工程	上饶市婺源县国际大酒店	武汉国营709舰艇综合研发大楼
佛山一环路灯工程	上饶市婺源县电力公司	武汉国家川气东送湖北大冶段项目
佛山南海广东南国小商品城	上饶市横峰县电力大楼	武汉江城明珠豪生大酒店工程
韶关冶炼厂工程	上饶市广丰县海源电力公司	武汉南湖花园虹顶家园二期工程
韶关钢铁股份有限公司	上饶市名星广场工程	武汉市东湖高新开发区光谷一中
韶关发电厂工程	上饶市香港城工程	云南大理州飞机场工程
韶关军分区办公大楼工程	鹰潭市供电公司工程	云南昆明理工大学工程
韶关仁化公安局大楼工程	鹰潭市滨江明珠工程	云南昆明呈贡大学城工程
韶关供电局春松花园工程	鹰潭市师范大学工程	云南昆明南疆大酒店工程
韶关安全生产监管局大楼	九江市瑞昌广夏集团	云南昆明顺达大酒店工程
韶关污水处理厂工程	九江市九一六大队集资房工程	云南丽江市金凯广场工程
广东韶关粤北人民医院大楼	瑞昌市财政局工程	云南丽江市香江花园工程
韶关韶能股份有限公司	瑞昌市行政中心办公大楼	云南瑞丽市腾隆国际大酒店
湛江南大理工学校工程	瑞昌市现代城小区工程	云南瑞丽市中国电信瑞丽分公司
湛江中国城酒店工程	瑞昌市城东中学工程	云南地州蒙自世纪花园工程
湛江消防大厦工程	景德镇市第一中学工程	云南省畜牧兽医科学院工程
湛江沃尔玛大厦工程	景德镇市时代奥园工程	云南大理东尼大酒店工程
湛江奥锂油电厂工程	宜丰县供电局工程	湖南长沙运达国际广场工程
湛江官渡工业园区工程	新余市高专学院工程	湖南长沙市碧桂园威尼斯城
湛江海洋大学工程	吉安市供电局工程	湖南张家界电力局工程
湛江海洋世界酒店工程	吉安县广电大楼工程	湖南常德芙蓉烟厂工程
湛江华盛家园房地产公司	吉安县中医院工程	湖南邵怀高速公路工程
兴宁市卫生局工程	吉安体育广场工程	湖南长丰猎豹汽车集团
兴宁市药监局工程	吉安井冈山凯旋门工程	湖南常德电力局工程
兴宁实验中学工程	吉安井冈山中心医院工程	湖南长沙湘麓国际工程
兴宁市华丰工业园区工程	吉安海联国际饭店工程	湖南长沙利海米兰春天工程
兴宁市农机局工程	吉安红板公司工程	湖南长沙市家乐福超市工程
广东富华重工制造有限公司	吉安开元洲际大酒店工程	山东济南军分区工程
汕头市电力局改造工程	抚州市市政府行政办公大楼	陕西西安雅居乐工程
潮阳市电力局电网技改工程	抚州市海能电子工程	重庆雅居乐工程
重庆龙湖置业房地产工程	重庆华宇集团工程	重庆融桥半岛工程



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