

额定电压0.6/1kV交联聚乙烯绝缘电力电缆
Rated voltage 0.6/1kV XLPE insulated power cables

■ 执行标准

交联聚乙烯绝缘(阻燃)电力电缆性能符合国家标准 GB/T12706.1-2008等效采用IEC60502-2004, 阻燃性符合国家标准GB/T18380-2009等效采用IEC60332-2004。

■ 使用特性

电缆额定工作电压 U_0/U 为0.6/1kV
 电缆导体长期允许工作温度：90℃
 电缆导体短路温度：<250℃，持续时间：<5S
 电缆敷设弯曲半径：单芯电缆>20倍电缆外径
 多芯电缆>15倍电缆外径。
 电缆敷设时温度不低于0℃，低于0℃时，预先加温，电缆敷设不受落差水平限制。

Executive standard

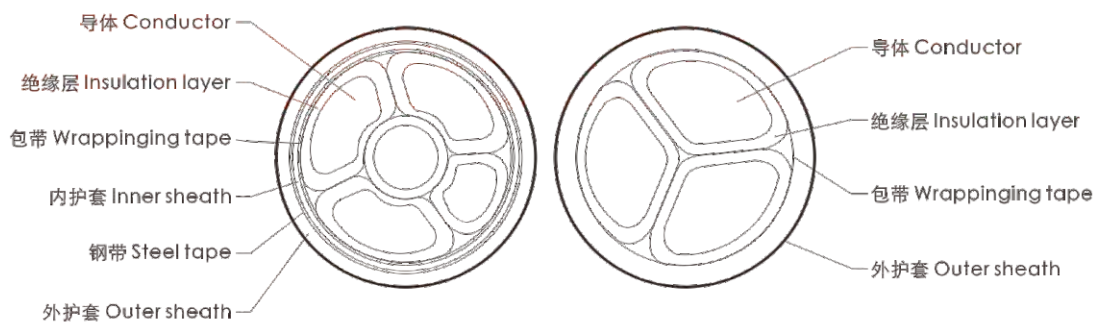
XLPE insulated(flame retardant) power cables comply with GB/T 12706.1-2008, which is equivalent to IEC 60502-2004; the flame retarding property complies with GB/T 18380-2009 which is equivalent to IEC 60332-2004.

■ Operating characteristics

Rated working voltage U_0/U is 0.6/1kV;
Allowable long-term working temperature for cable conductor: 90℃;
Short-circuit temperature for cable conductor: <250℃,
duration <5s;
Bending radius in cable laying: > 20 times of outer diameter for
single-core cables, and >15 times of outer diameter of multi-
core cables;
Ambient temperature should not be minus in cable laying, and
pre-heating is necessary if it is below 0℃, also the laying is not
limited by the drop heights.

■ 型号及名称 Type and description

型号 Types		名称 Descriptions	使用范围 Scope of application
铜芯 Cu. core	铝芯 Al. core		
YJV ZR-YJV	YJLV ZR-YJLV	交联聚乙烯绝缘聚氯乙烯护套(阻燃)电力电缆 XLPE insulated and PVC sheathed power cable	敷设在室内外隧道、电缆沟、也可埋在松散的土壤中，可经受一定的敷设牵引，但不能承受机械外力作用的情况，单芯电缆不允许敷设在磁性管道中 Can be laid in tunnels in/out of doors, cable trenches or loose soil; can bear certain laying traction force, but can't stand outer mechanical force; single-core cables can't be laid in magnetic pipelines.
WDZ-YJY	WDZ-YJLY	交联聚乙烯绝缘低烟无卤护套电力电缆 Low smoke, halogen free, XLPE insulated, power cable	
YJV22 ZR-YJV22	YJLV22 ZR-YJLV22	交联聚乙烯绝缘钢带铠装聚氯乙烯护套(阻燃)电力电缆 XLPE insulated, steel tape armored and PVC sheathed power cable	敷设在室外，也用于埋地敷设，能受机械外力作用，但不能承受大的拉力 Can be laid outdoors, and also be buried underground; can stand mechanical outer force but can't stand large pulling force.
YJV62 ZR-YJV62	YJLV62 ZR-YJLV62	交联聚乙烯绝缘非磁性金属带铠装聚氯乙烯护套(阻燃)电力电缆 XLPE insulated, non-magnetic metallic tape armored, PVC sheathed (flame retardant), power cable	
WDZ-YJY23	WDZ-YJLY23	交联聚乙烯绝缘钢带铠装低烟无卤护套电力电缆 XLPE insulated, steel tape armored, low smoke halogen free, power cable	
YJV32 ZR-YJV32	YJLV32 ZR-YJLV32	交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套(阻燃)电力电缆 XLPE insulated, thin steel wire armored and PVC sheathed power cable	敷设在竖井水中或高落差地区，能承受机械外力作用和相当的拉力 Can be laid in vertical well or high falls area; can stand mechanical outer force and certain pulling force.
YJV72 ZR-YJV72	YJLV72 ZR-YJLV72	交联聚乙烯绝缘非磁性金属丝铠装聚氯乙烯护套(阻燃)电力电缆 XLPE insulated, non-magnetic steel wire armored, PVC sheathed (flame retardant) power cable	
WDZ-YJY33	WDZ-YJLY33	交联聚乙烯绝缘细钢丝铠装低烟无卤护套电力电缆 XLPE insulated, thin steel wire armored, low smoke halogen free, power cable	
YJV42 ZR-YJV42	YJLV42 ZR-YJLV42	交联聚乙烯绝缘粗钢丝铠装聚氯乙烯护套(阻燃)电力电缆 XLPE insulated, thick steel wire armored and PVC sheathed power cable	敷设在竖井，海底或高落差地区，电缆能承受较大的正压力和拉力的作用 Can be laid in vertical well, sea bed or high falls area; can stand large positive pressure and certain pulling force.
WDZ-YJY43	WDZ-YJLY43	交联聚乙烯绝缘粗钢丝铠装低烟无卤护套电力电缆 XLPE insulated, thick steel wire armored, low smoke halogen free, power cable	



生产范围 Scope of production

型号 Types		标称截面 (mm ²) Nominal cross section				
		单芯 Single-core	二芯 Two-core	三芯 Three-core	四芯 Four-core	五芯 Five-core
YJV ZR-YJV WDZ-YJY	YJLV ZR-YJLV WDZ-YJLY	1.5-800	1.5-300	1.5-300	1.5-300	1.5-300
YJV62 ZR-YJV62	YJLV62 ZR-YJLV62	10-500	-	-	-	-
YJV22 ZR-YJV22 WDZ-YJY23	YJLV22 ZR-YJLV22 WDZ-YJLY23	-	4-300	4-300	4-300	4-300
YJV72 ZR-YJV72	YJLV72 ZR-YJLV72	10-500	-	-	-	-
YJV32 ZR-YJV32 WDZ-YJY33	YJLV32 ZR-YJLV32 WDZ-YJLY33	-	4-300	4-300	4-300	4-300
YJV42 ZR-YJV42 WDZ-YJY43	YJLV42 ZR-YJLV42 WDZ-YJLY43	-	4-300	4-300	4-300	4-300

主要技术指标

- 成品电缆导体20℃时直流电阻符合GB/T 3956-2008。
- 成品电缆绝缘电阻常数90℃时不小于3.67MΩ.km。
- 成品电缆应经受50Hz, 3.5kV 试验电压的耐压试验, 试验持续5分钟不击穿。
- 电缆阻燃性能符合GB/T18380-2008规定。
- 无卤低烟阻燃电缆燃烧时烟密度试验, 最小透光率不小于60%, 氯化氢气体释放量HCL不大于5mg/g, pH值不小于4.3, 电导率不大于10μs/mm。

Main technical index

- DC resistance of finished cables at 20℃ complies with GB/T 3956-2008;
- Insulation resistance constant of finished cables at 90℃ should not be less than 3.67MΩ.km;
- Finished cables can stand 50Hz, voltage withstand test with 3.5kV for 5 min without breakdown on insulation;
- Flame retarding property complies with GB/T 18380-2008;
- Smoke density test for low smoke halogen free flame retardant cables, min. light transmittance should be no less than 60%, HCL gas emission should be no more than 5mg/g, pH value no less than 4.3 and electricity conductivity no more than 10μs/mm.

单芯交联聚乙烯绝缘聚氯乙烯护套（阻燃）电力电缆
 Single-core XLPE insulated and sheathed (flame retardant) power cables

芯数 x 截面 Core number x cross section (mm²)	电缆计 算外径 Calcula- ted outer diam	电缆计算重量 (kg/km) Calculated weight		90 °C时绝 缘电阻 Insulation resistance at 90°C (MΩ · km)	电缆参考载流量 (A) Reference current-carrying capacity			
		YJV ZR-YJV	YJLV ZR-YJLV		在空气中 In air		直埋土壤中 (ρ=1.0k · m/w) Buried in soil	
					铜 Cu.	铝 Al.	铜 Cu.	铝 Al.
1X1.5	6.1	55	46	≥1.116	32		45	
1X2.5	6.7	67	53	≥0.925	42	33	59	46
1X4	7.2	84	61	≥0.771	56	44	77	61
1X6	7.5	108	72	≥0.654	70	57	97	79
1X10	8.5	156	96	≥0.473	97	75	130	100
1X16	9.5	220	119	≥0.387	125	99	170	135
1X25	11.2	372	171	≥0.418	165	125	220	170
1X35	12.0	428	213	≥0.360	200	155	265	205
1X50	14.0	559	269	≥0.340	245	190	320	245
1X70	15.5	767	356	≥0.317	305	240	395	305
1X95	17.2	1054	465	≥0.275	375	290	475	370
1X120	19.0	1327	576	≥0.268	435	340	545	420
1X150	21.8	1576	683	≥0.280	500	390	610	475
1X185	23.5	1962	829	≥0.287	580	450	695	540
1X240	26.2	2537	1057	≥0.270	685	535	810	630
1X300	29.0	3050	1258	≥0.257	795	615	910	710
1X400	32.6	4020	1508	≥0.250	930	730	1050	820
1X500	36.2	5010	1829	≥0.244	1080	850	1190	940
1X630	42.0	6300	2300	≥0.234	1250	1000	1350	1080
1X800	47.0	7988	2890	≥0.2234	1440	1160	1520	1220

二芯交联聚乙烯绝缘(钢带铠装)聚氯乙烯护套(阻燃)电力电缆

Two-core XLPE insulated, steel tape armored, PVC sheathed(flame retardant) power cables

芯数×截面 Core number× cross section (mm²)	电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 (kg/km) Calculated weight		90℃时绝 缘电阻 Insulation resistance at 90℃ (MΩ·km)	电缆参考载流量 (A) Reference current-carrying capacity			
		YJV ZR-YJV	YJLV ZR-YJLV		YJV22 ZR-YJV22	YJLV22 ZR-YJLV22		在空气中 In air		直埋土壤中 Buried in soil	
								铜 Cu.	铝 Al.	铜 Cu.	铝 Al.
2X4	12.7	198	119	16.0	335	261	≥0.771	34	27	45	36
2X6	13.7	246	141	17.0	396	305	≥0.654	43	35	57	46
2X10	15.6	347	188	18.5	530	405	≥0.473	60	47	77	59
2X16	18	500	237	20.5	708	485	≥0.387	83	64	105	80
2X25	20.5	725	335	23	961	655	≥0.418	105	82	125	100
2X35	22.5	942	420	25	1201	765	≥0.360	125	100	155	120
2X50	25.5	1147	530	27.5	1386	935	≥0.340	160	125	185	145
2X70	29.5	1531	701	32.5	1791	1375	≥0.317	200	155	225	175
2X95	32.7	2029	925	36.0	2341	1715	≥0.275	245	200	270	210
2X120	36.5	2533	1130	39.5	3184	2201	≥0.268	285	220	310	240
2X150	41.5	3166	1335	44.0	4123	2445	≥0.280	325	250	345	270
2X185	45.5	3878	1625	48.5	4676	2925	≥0.287	375	295	390	305
2X240	50.0	5019	2072	53.5	6255	3755	≥0.270	440	345	450	355
2X300	55.0	5945	2407	59.0	7165	4165	≥0.257	505	395	515	400

三芯交联聚乙烯绝缘(钢带铠装)聚氯乙烯护套(阻燃)电力电缆

Three-core XLPE insulated, steel tape armored, PVC sheathed(flame retardant) power cables

芯数×截面 Core number× cross section (mm²)	电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		90℃时绝 缘电阻 Insulation resistance at 90℃	电缆参考载流量 (A) Reference current-carrying capacity			
		YJV ZR-YJV	YJLV ZR-YJLV		YJV22 ZR-YJV22	YJLV22 ZR-YJLV22		在空气中 In air		直埋土壤中 Buried in soil	
								铜 Cu.	铝 Al.	铜 Cu.	铝 Al.
3X4	12.8	216	140	16.9	506	391	≥0.771	34	27	45	36
3X6	14.5	285	175	17.8	616	455	≥0.654	43	35	57	46
3X10	15.8	455	238	20.4	766	607	≥0.473	60	47	77	59
3X16	18	640	305	22.6	1000	721	≥0.387	83	64	105	80
3X25	21.5	945	467	25.5	1381	982	≥0.418	105	82	125	100
3X35	24	1235	561	28	1735	1145	≥0.360	125	100	155	120
3X50	27	1617	721	31	2250	1405	≥0.340	160	125	185	145
3X70	31	2240	986	36	3065	2061	≥0.317	200	155	225	175
3X95	35	3135	1381	39.9	3995	5751	≥0.275	245	200	270	210
3X120	39	3885	1695	43	5095	3295	≥0.268	285	220	310	240
3X150	43.5	4613	2001	48	5915	3665	≥0.280	325	250	345	270
3X185	48.5	5737	2436	52	7240	4387	≥0.287	375	295	390	305
3X240	54	7528	3008	55	9381	5631	≥0.270	440	345	450	355
3X300	59	8915	3699	63	10738	6245	≥0.257	505	395	515	400

四芯交联聚乙烯绝缘(钢带铠装)聚氯乙烯护套(阻燃)电力电缆

Four-core XLPE insulated, steel tape armored, PVC sheathed(flame retardant) power cables

芯数×截面 Core number× cross section (mm²)	电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		90℃时绝 缘电阻 Insulation resistance at 90℃	电缆参考载流量 (A) Reference current-carrying capacity			
		YJV ZR-YJV	YJLV ZR-YJLV		YJV22 ZR-YJV22	YJLV22 ZR-YJLV22		在空气中 In air		直埋土壤中 Buried in soil	
								铜 Cu.	铝 Al.	铜 Cu.	铝 Al.
4x4	14.5	253	171	17.6	592	475	≥0.771	34	27	45	36
4x6	15.8	360	208	19	723	561	≥0.654	43	35	57	46
4x10	18	502	278	20	917	703	≥0.473	60	47	77	59
4x16	21	810	376	23	1206	835	≥0.387	83	64	105	80
4x25	25	1120	544	27	1645	1155	≥0.418	105	82	125	100
4x35	28	1571	690	32	2078	1358	≥0.360	125	100	155	120
4x50	30	1984	916	33.5	2822	1675	≥0.340	160	125	185	145
4x70	34	2797	1261	38	3810	2418	≥0.317	200	155	225	175
4x95	39	3920	1686	45	5046	3040	≥0.275	245	200	270	210
4x120	43	4945	2117	46.5	6425	3871	≥0.268	285	220	310	240
4x150	48	5940	2565	51.5	7490	4348	≥0.280	325	250	345	270
4x185	54	7785	3216	58	9219	5215	≥0.287	375	295	390	305
4x240	60	9744	4130	64	11954	6690	≥0.270	440	345	450	355
4x300	66	12243	4906	69	13791	7505	≥0.257	505	395	515	400

四芯交联聚乙烯绝缘(钢带铠装)聚氯乙烯护套(阻燃)电力电缆
 Four-core XLPE insulated, steel tape armored, PVC sheathed(flame retardant) power cables

芯数 × 截面 Core number × cross section (mm²)	电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		90 °C时绝 缘电阻 Insulation resistance at 90 °C	电缆参考载流量 (A) Reference current-carrying capacity			
		YJV ZR-YJV	YJLV ZR-YJLV		YJV22 ZR-YJV22	YJLV22 ZR-YJLV22		在空气中 In air		直埋土壤中 Buried in soil	
								铜 Cu.	铝 Al.	铜 Cu.	铝 Al.
3X4+1X2.5	13.8	319	231	17.3	573	443	≥0.771	34	27	45	36
3X6+1X4	14.9	405	272	18.5	699	514	≥0.654	43	35	57	46
3X10+1X6	17.5	563	359	21.1	866	679	≥0.473	60	47	77	59
3X16+1X10	20.1	796	451	23.7	1107	817	≥0.387	83	64	105	80
3X25+1X16	23.1	1161	602	26.7	1542	1093	≥0.418	105	82	125	100
3X35+1X16	25.3	1486	748	28.9	1903	1254	≥0.360	125	100	155	120
3X50+1X25	28.0	1937	952	32.0	2636	1574	≥0.340	160	125	185	145
3X70+1X35	32.5	2663	1265	36.0	3499	2274	≥0.317	200	155	225	175
3X95+1X50	36.0	3686	1677	40.5	4548	2849	≥0.275	245	200	270	210
3X120+1X70	41.0	4649	2049	44.7	5466	2801	≥0.268	285	220	310	240
3X150+1X70	47.0	5427	2356	48.0	6697	4274	≥0.280	325	250	345	270
3X185+1X95	50.5	6789	2910	53.9	8538	4856	≥0.287	375	295	390	305
3X240+1X120	54.8	8858	3684	58.6	10708	6206	≥0.270	440	345	450	355
3X300+1X150	61.5	10491	4380	64.9	13068	6922	≥0.257	505	395	515	400

四芯交联聚乙烯绝缘(细钢丝铠装)聚氯乙烯护套(阻燃)电力电缆
 Four-core XLPE insulated, thin steel wire armored, PVC sheathed(flame retardant) power cables

芯数 x 截面 Core number x cross section (mm²)	电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		90℃时绝 缘电阻 Insulation resistance at 90℃	电缆参考载流量 (A) Reference current-carrying capacity			
		YJV32 ZR-YJV32	YJLV32 ZR-YJLV32		在空气中 In air		直埋土壤中 Buried in soil	
					铜 Cu.	铝 Al.	铜 Cu.	铝 Al.
3X4+1X2.5	18.5	635	545	≥0.771	34	27	45	36
3X6+1X4	19.7	759	623	≥0.654	43	35	57	46
3X10+1X6	23.1	1135	911	≥0.473	60	47	77	59
3X16+1X10	25.7	1475	1097	≥0.387	83	64	105	80
3X25+1X16	29.1	1999	1435	≥0.418	105	82	125	100
3X35+1X16	31.9	2509	1758	≥0.360	125	100	155	120
3X50+1X25	34.8	3157	2073	≥0.340	160	125	185	145
3X70+1X35	39.4	4200	2682	≥0.317	200	155	225	175
3X95+1X50	43.7	5205	3129	≥0.275	245	200	270	210
3X120+1X70	49.1	6570	3905	≥0.268	285	220	310	240
3X150+1X70	52.8	7819	4597	≥0.280	325	250	345	270
3X185+1X95	58.1	9529	5500	≥0.287	375	295	390	305
3X240+1X120	65.1	12169	6961	≥0.270	440	345	450	355
3X300+1X150	68.6	14432	7920	≥0.257	505	395	515	400

五芯交联聚乙烯绝缘（钢带铠装）聚氯乙烯护套（阻燃）电力电缆
 Five-core XLPE insulated, steel tape armored, PVC sheathed (flame retardant) power cables

芯数 x 截面 Core number x cross section (mm²)	电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		电缆计 算外径 Calculated outer diam (mm²)	电缆计算重量 Calculated weight (kg/km)		90℃时绝 缘电阻 Insulation resistance at 90℃	电缆参考载流量 (A) Reference current-carrying capacity			
		YJV ZR-YJV	YJLV ZR-YJLV		YJV22 ZR-YJV22	YJLV22 ZR-YJLV22		在空气中 In air		直埋土壤中 Buried in soil	
								铜 Cu.	铝 Al.	铜 Cu.	铝 Al.
3X4+2X2.5	14.3	305	200	17.9	533	427	≥0.771	34	27	45	36
3X6+2X4	15.6	404	243	19.2	652	491	≥0.654	43	35	57	46
3X10+2X6	18.3	657	332	21.9	883	622	≥0.473	60	47	77	59
3X16+2X10	21.3	877	454	24.9	1212	789	≥0.387	83	64	105	80
3X25+2X16	24.5	1283	619	28.1	1668	1004	≥0.418	105	82	125	100
3X35+2X16	26.4	1623	733	30.2	2277	1161	≥0.360	125	100	155	120
3X50+2X25	30.6	2233	991	35.2	2953	1711	≥0.340	160	125	185	145
3X70+2X35	34.2	2948	1233	38.8	3749	2034	≥0.317	200	155	225	175
3X95+2X50	38.6	3982	1597	43.2	4799	2495	≥0.275	245	200	270	210
3X120+2X70	42.8	5142	1986	47.6	6055	2999	≥0.268	285	220	310	240
3X150+2X70	48.2	6186	2513	52.8	7288	3625	≥0.280	325	250	345	270
3X185+2X95	53.7	7747	3121	58.3	8980	4354	≥0.287	375	295	390	305
3X240+2X120	60.0	9836	3793	68.0	11250	5770	≥0.270	440	345	450	355
3X300+2X150	66.2	12435	5007	72.2	13893	6465	≥0.257	505	395	515	400
4X70+1X35	35	3298	1438	39	4115	2150	≥0.317	200	155	225	175
4X95+1X50	40	4444	1820	44	5286	2710	≥0.275	245	200	270	210
4X120+1X70	44	5637	2480	49	6592	3493	≥0.268	285	220	310	240
4X150+1X70	49	6960	3102	54	8070	4221	≥0.280	325	250	345	270
4X185+1X95	54	8636	3365	59	9893	4598	≥0.287	375	295	390	305
4X240+1X120	61	11066	4355	66	12492	5812	≥0.270	440	345	450	355
4X300+1X150	66	13729	5168	71	15223	6358	≥0.257	505	395	515	400
5×1.5	13.4	191.7	143.7	16.6	350.5	302.6	≥1.116	30		40	
5×2.5	14.5	254.7	174.8	17.7	427.8	347.8	≥0.925	32	25	42	30
5×4	15.8	344.2	216.3	19.0	531.3	403.4	≥0.771	34	27	45	36
5×6	17.1	459.0	267.1	20.3	661.4	469.6	≥0.654	43	35	57	46
5×10	19.9	691.3	371.6	23.9	869.7	549.9	≥0.473	60	47	77	59
5×16	22.6	1016.0	504.4	26.6	1214.3	702.8	≥0.387	83	64	105	80
5×25	27.0	1533.3	734.0	32.5	2068.8	1269.4	≥0.418	105	82	125	100
5×35	29.8	2059.1	940.0	35.3	2657.6	1538.5	≥0.360	125	100	155	120
5×50	34.1	2877.1	1278.4	39.7	3540.4	1941.7	≥0.340	160	125	185	145
5×70	39.6	3977.1	1738.9	45.2	4758.9	2520.7	≥0.317	200	155	225	175

交货长度：

电力电缆一般成盘交货，交货总长度一般不小于100m，允许长度不小于20m短段电缆交货，但其数量应不超过交货总长度的10%，根据双方协议，可以任何长度交货，长度计量误差±0.5%。

Delivery length:

Power cables are usually delivered in drums, with total length no shorter than 100m; however, short-length of no less than 20m is allowed, on the condition that this length does not exceed 10% of the total delivery length; delivery of any length is allowed based on mutual agreement between buyer and vendor, with tolerance ±0.5%.