



铝合金电缆系列选型手册

Catalog Aluminium Alloy Cable Selection Manual

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一、额定电压 0.6/1kV 及以下铝合金芯交联聚乙烯绝缘电力电缆 Rated voltage 0.6/1kV and below aluminum alloy core crosslinked polyethylene insulated power cable

依据标准:according to the standard

GB / T 31840.1 额定电压 1kV ($U_m=1.2\text{kV}$) 到 35kV ($U_m=40.5\text{kV}$) 铝合金芯挤包绝缘电力电缆

第 1 部分: 额定电压 1kV ($U_m=1.2\text{kV}$) 和 3kV ($U_m=3.6\text{kV}$) 电缆

Aluminium alloy core extruded insulated power cables with rated voltages 1kV ($U_m=1.2\text{kV}$) to 35kV ($U_m=40.5\text{kV}$) – Part 1: Cables with rated voltages 1kV ($U_m=1.2\text{kV}$) and 3kV ($U_m=3.6\text{kV}$)

适用范围: Scope of application

本产品适用于额定电压 0.6/1kV 及以下输配电线路作配送电能之用。

Suitable for rated voltage 0.6/1kV and below transmission and distribution lines

使用特性: operating characteristic

额定电压 U_0/U 为 0.6/1kV– The rated voltage U_0/U is 0.6/1kV

最高系统电压 U_m 为 1.2kV– The maximum system voltage U_m is 1.2kV

电缆导体的最高允许工作温度为 90℃ –The maximum allowable operating temperature of the conductor is 90℃

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℃ The maximum short-circuit temperature of the conductor shall not exceed 250 ° C (5s maximum duration)

电缆敷设时环境温度应不低于 0℃ The ambient temperature should not be lower than 0 ° C when the cable is laid

型号规格: type and specification

型号 type	芯数 Nos. Of cores	名称 Name/Description
YJLHV	1、2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated PVC sheathed power cable
YJLHY	1、2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulation polyethylene sheathed power cable
YJLHV62	1	铝合金芯交联聚乙烯绝缘非磁性金属带铠装聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated non-magnetic metal tape armoured PVC sheathed power cable
YJLHY63	1	铝合金芯交联聚乙烯绝缘非磁性金属带铠装聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated non-magnetic metal tape armoured polyethylene sheathed power cable
YJLHV22	2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated steel tape armouring PVC sheathed power cable
YJLHY23	2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated steel tape armoured polyethylene sheathed power cable

备注: Note

可根据用户需求, 生产各类阻燃、低烟无卤、耐火及耐寒电力电缆; According to the requirements of users, we produce all kinds of flame-retardant, low-smoke halogen-free, fire-resistant and cold-resistant power cables;

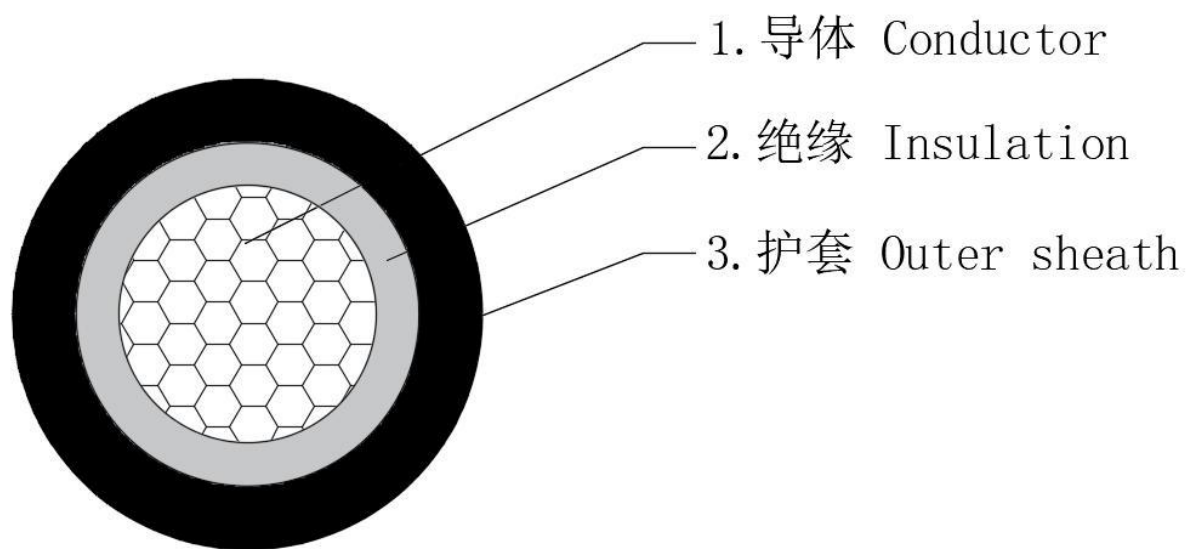
阻燃电缆可在型号中加阻燃特性符号, 如 Z, ZC, ZB, ZA; Flame retardant cable can be added in the type flame retardant characteristic symbol, such as Z, ZC, ZB, ZA;

低烟无卤可在型号中加无卤低烟特性符号, 如 WD; Low-smoke halogen-free can be added to the type halogen-free low-smoke characteristic symbol, such as WD;

耐寒电缆可在型号中加耐寒特性符号, 如 HD; Cold resistance cable can be added to the type of cold resistance characteristic symbol, such as HD.

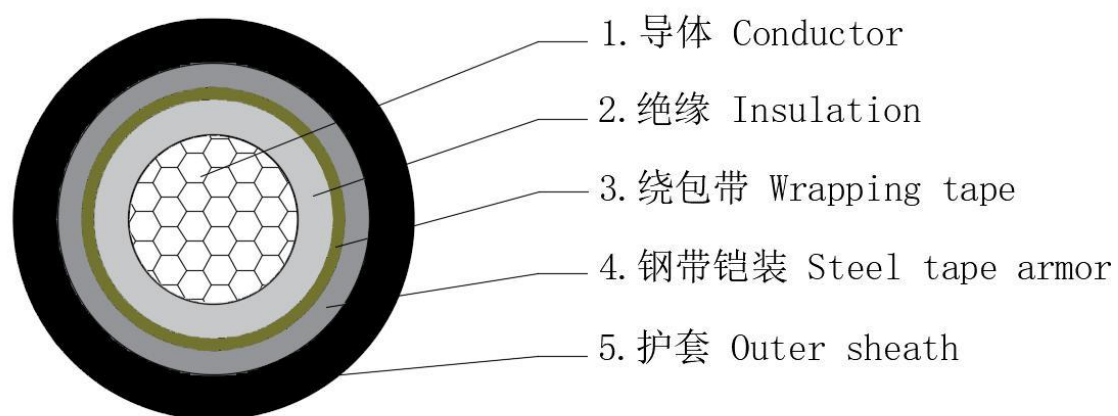
耐火电缆可在型号中加耐火特性符号, 如 N; Fire resistant cable can be added to the type of fire resistance symbol, such as N.

结构示意图: structural drawing



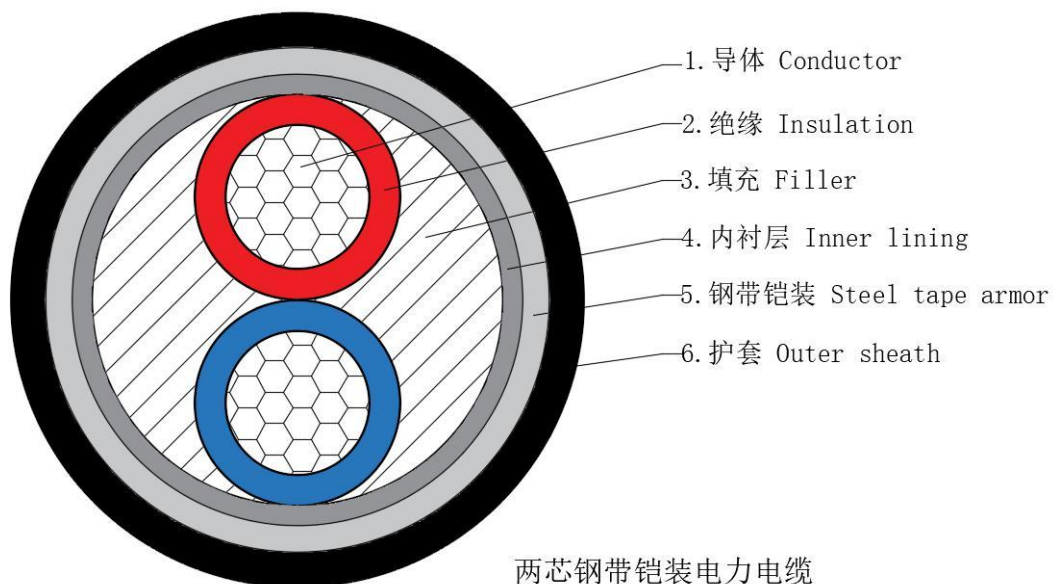
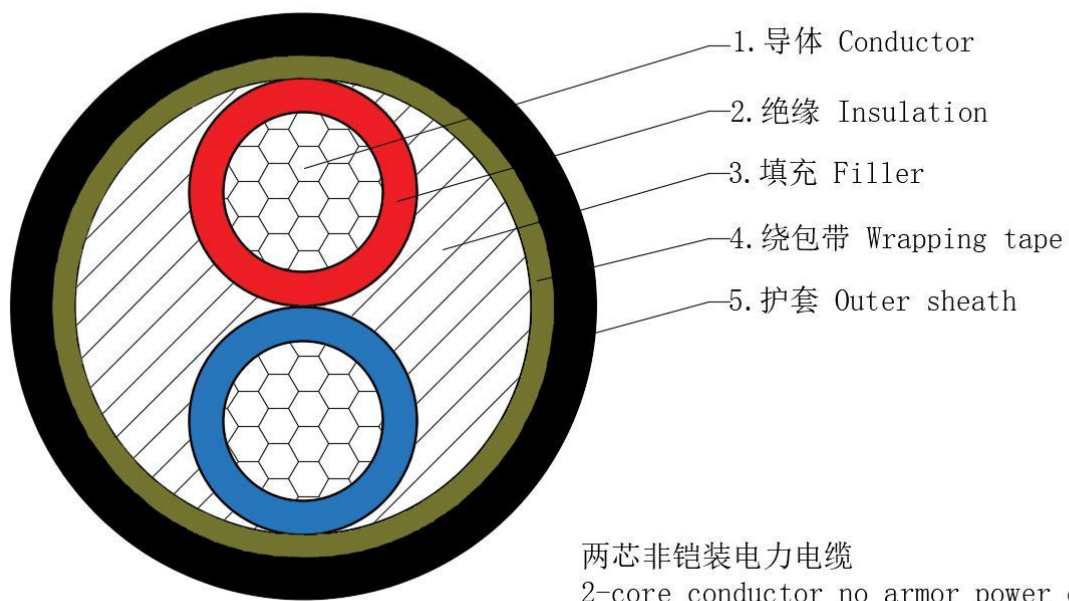
单芯非铠装电力电缆

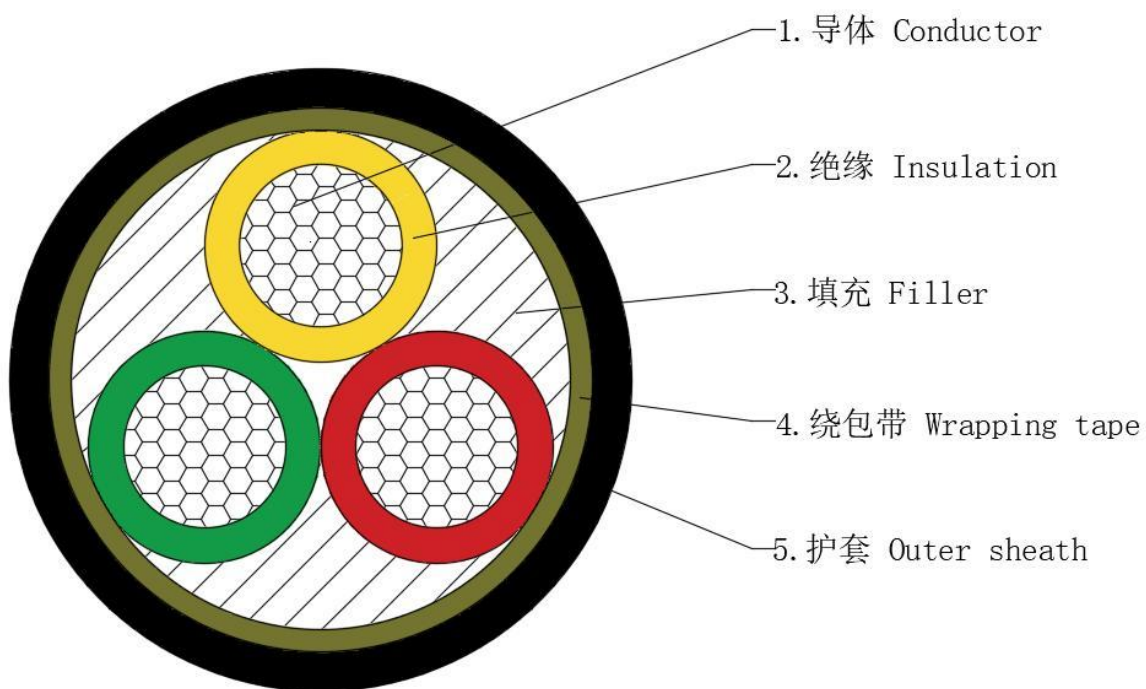
1-core conductor no armor power cable



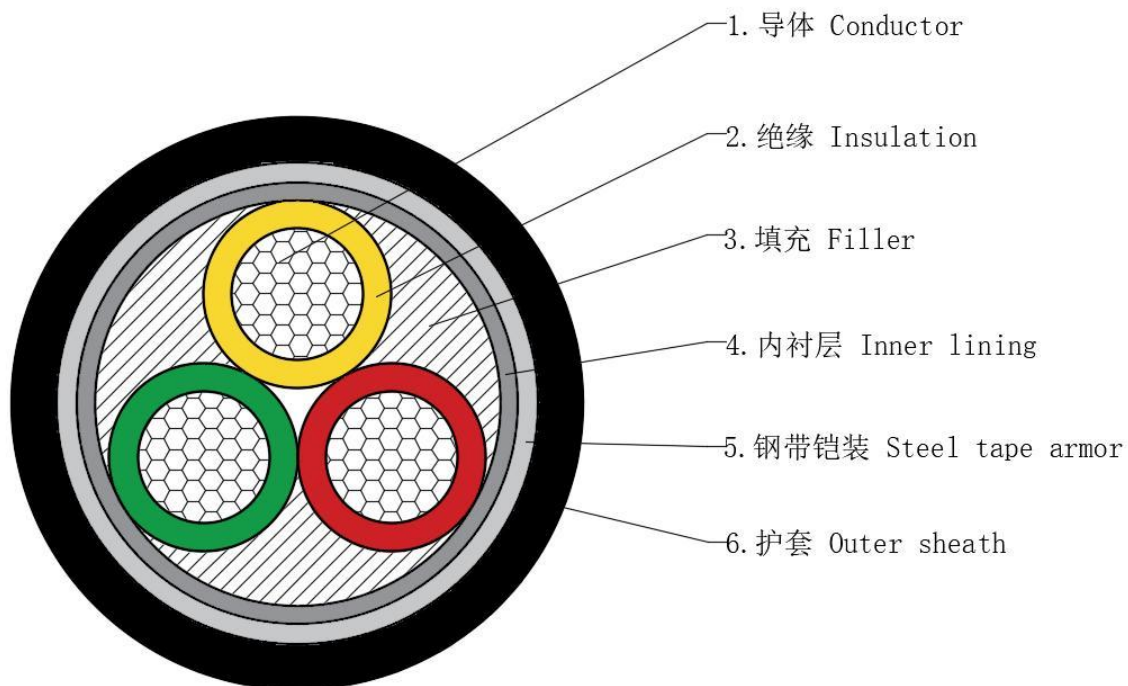
单芯钢带铠装电力电缆

1-core conductor steel tape armor power cable

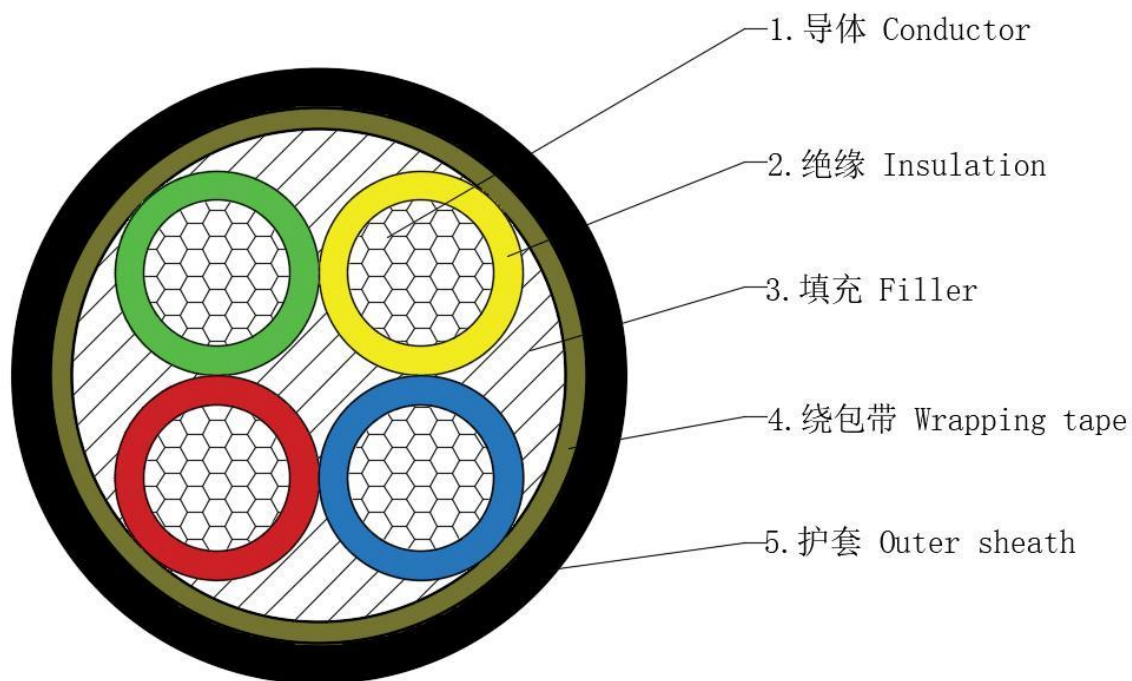




三芯非铠装电力电缆
3-core conductor no armor power cable

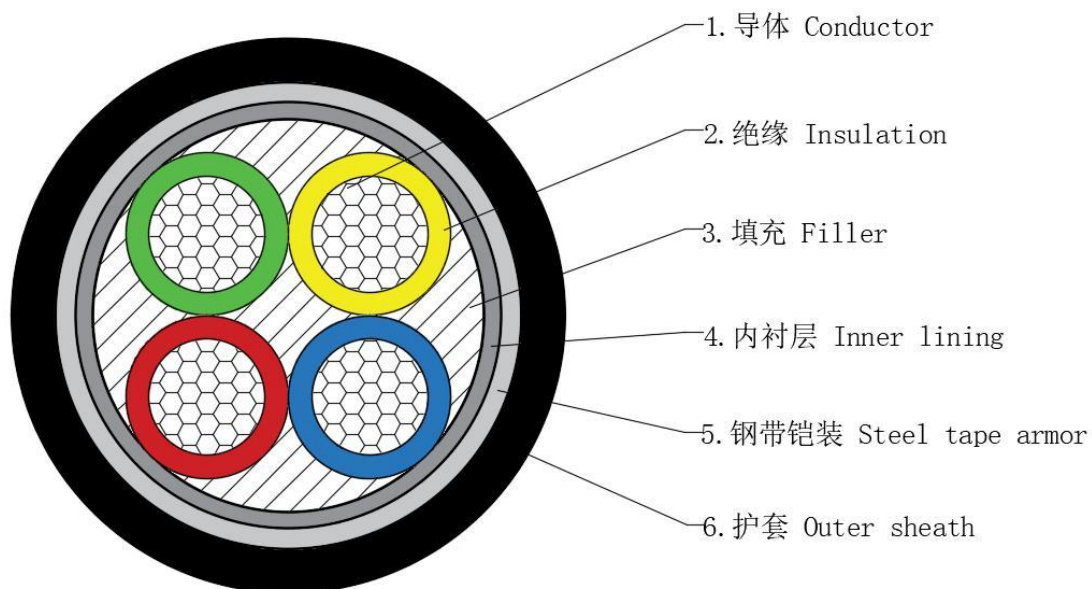


三芯钢带铠装电力电缆
3-core conductor steel tape armor power cable



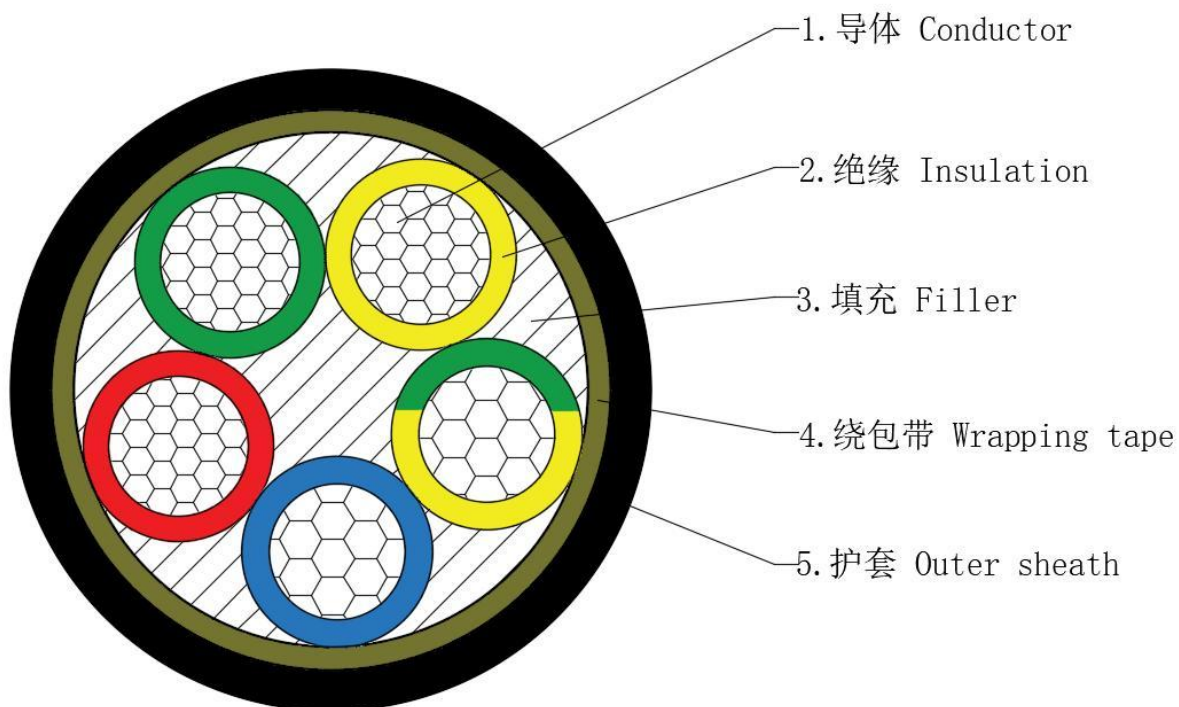
4芯非铠装电力电缆

4-core conductor no armor power cable



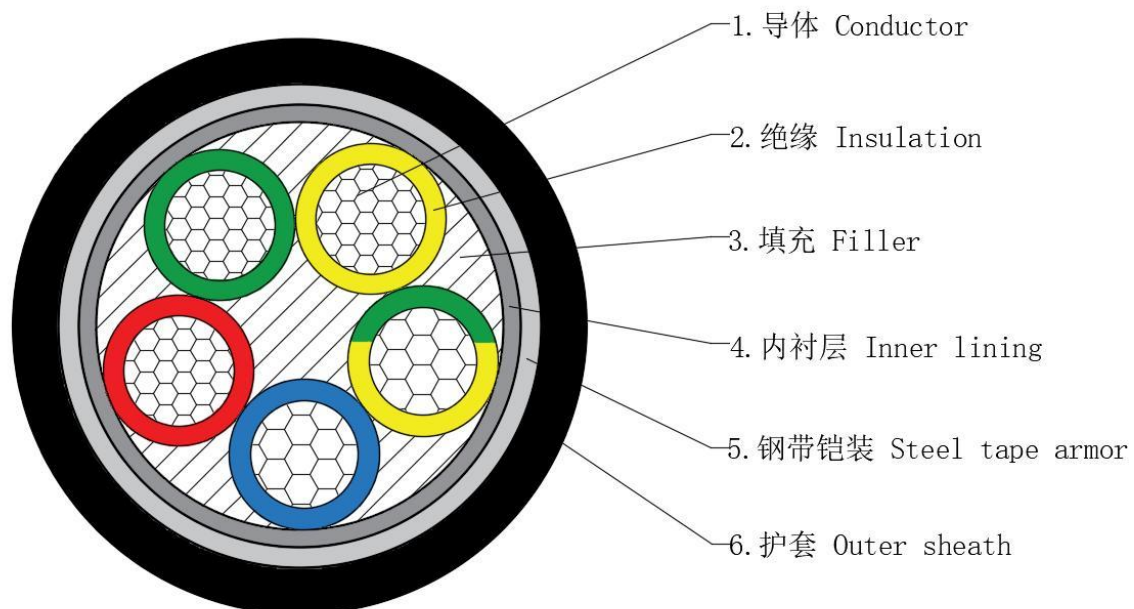
4芯钢带铠装电力电缆

4-core conductor steel tape armor power cable



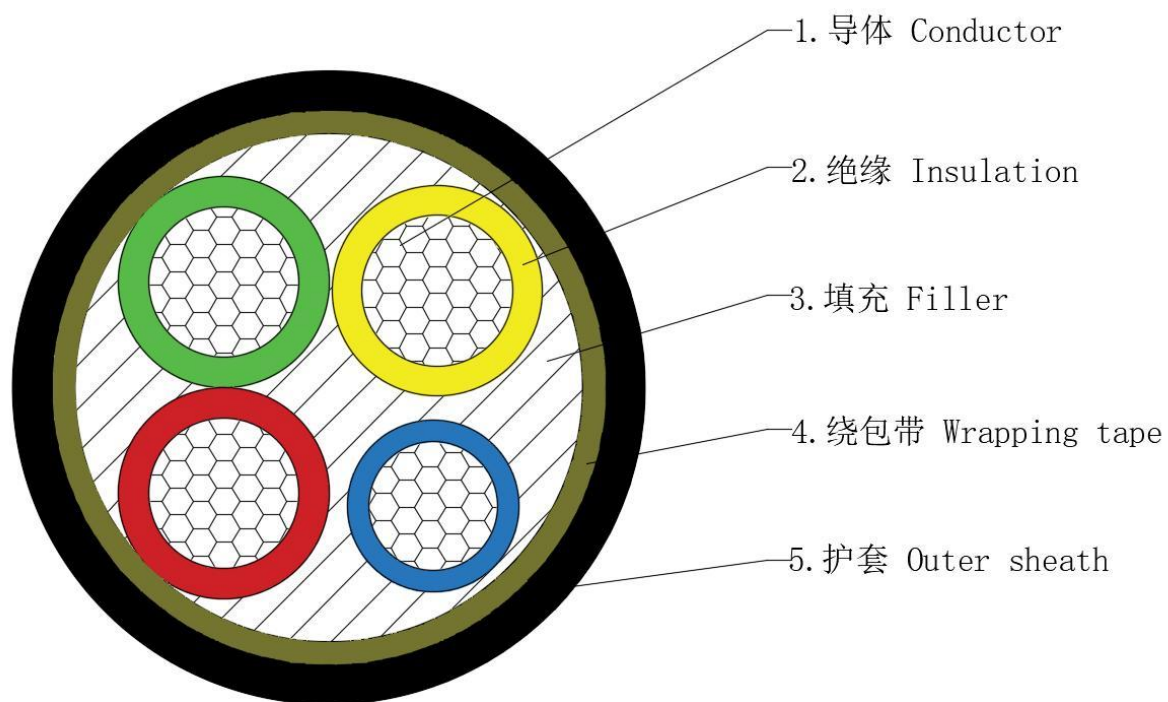
5芯非铠装电力电缆

5-core conductor no armor power cable



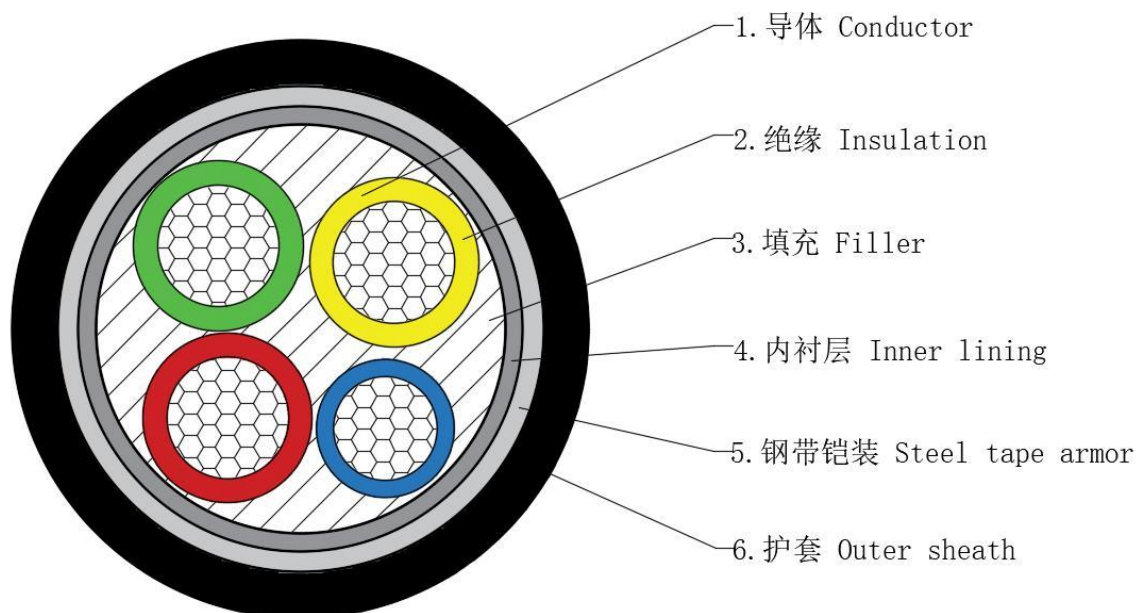
5芯钢带铠装电力电缆

5-core conductor steel tape armor power cable



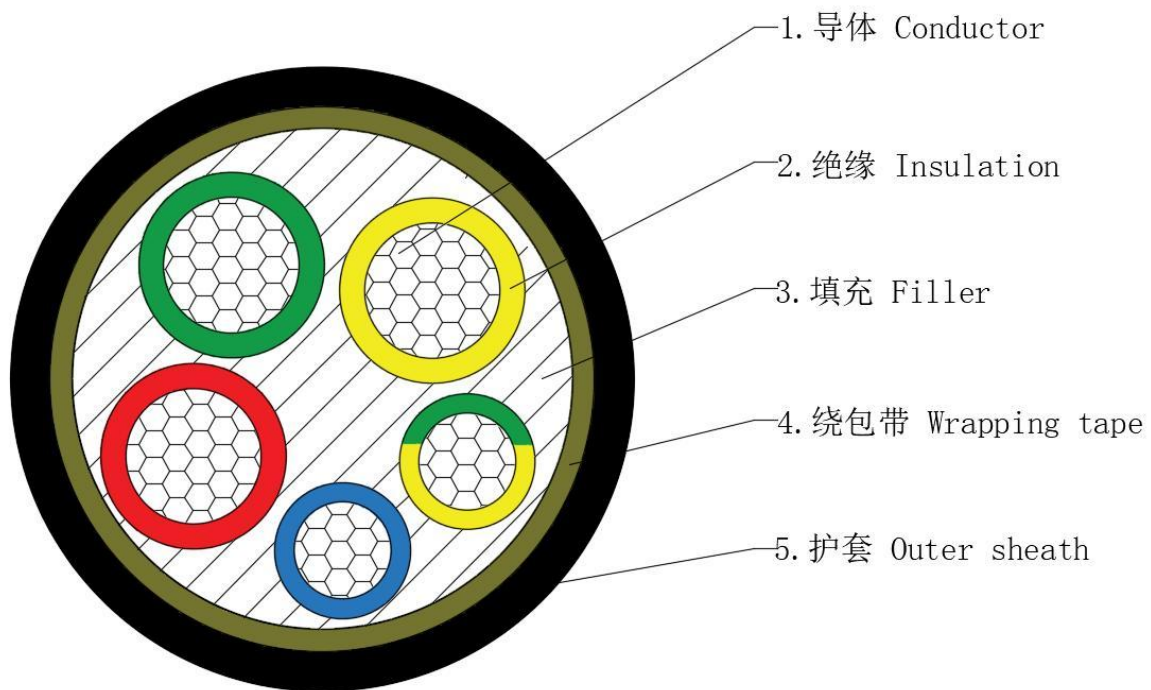
3+1芯非铠装电力电缆

3+1-core conductor no armor power cable

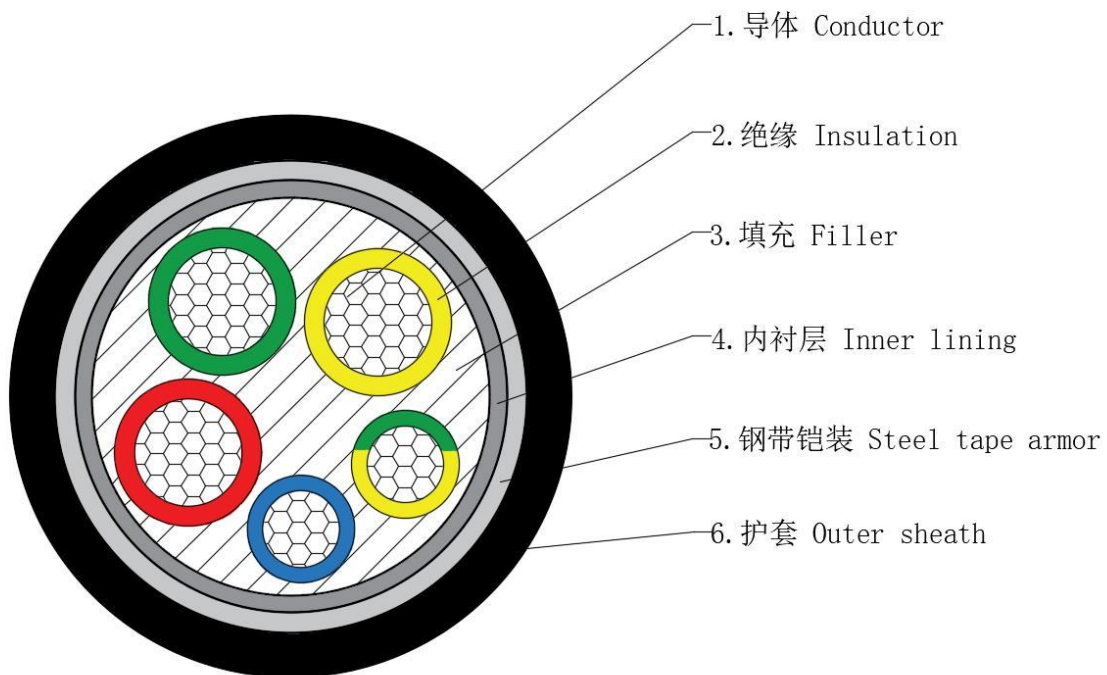


3+1芯钢带铠装电力电缆

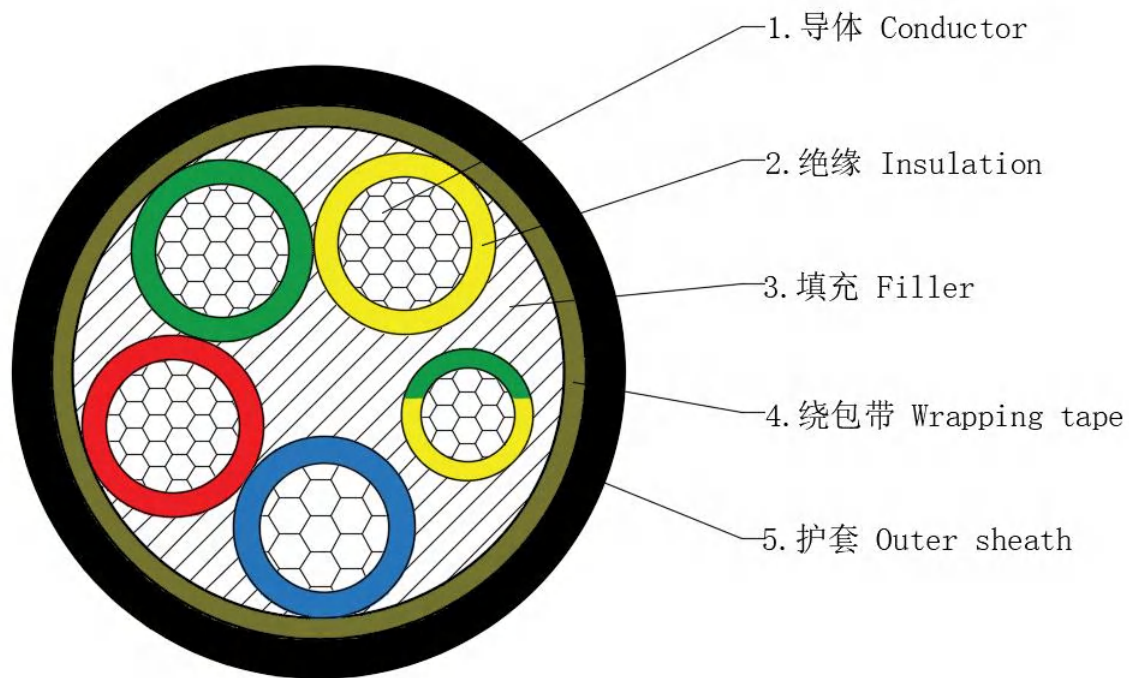
3+1-core conductor steel tape armor power cable



3+2芯非铠装电力电缆
3+2-core conductor no armor power cable

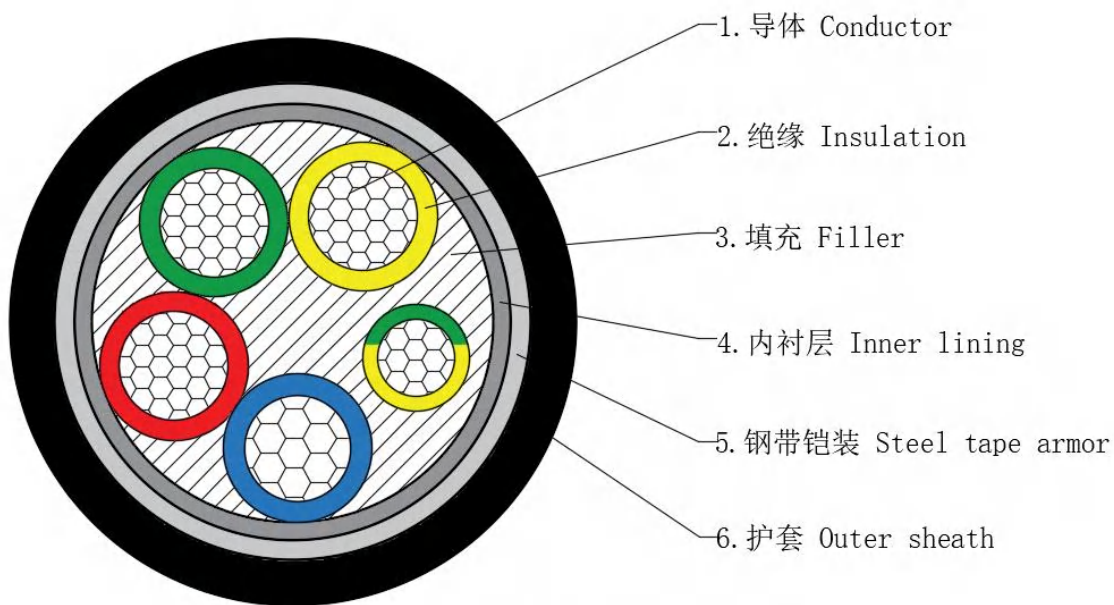


3+2芯钢带铠装电力电缆
3+2-core conductor steel tape armor power cable



4+1芯非铠装电力电缆

4+1-core conductor no armor power cable



4+1芯钢带铠装电力电缆

4+1-core conductor steel tape armor power cable

导体最大直流/交流电阻: Maximum DC/AC resistance of conductor

导体标称截面 Nominal sectional of conductor mm ²	20℃最大直流电阻 Maximum DC resistance at 20℃ Ω/km	90℃最大交流电阻 Maximum AC resistance at 90℃ Ω/km
	铝合金 aluminium alloy	铝合金 aluminium alloy
10	3.08	3.9487
16	1.91	2.4487
25	1.2	1.5385
35	0.868	1.1130
50	0.641	0.8220
70	0.443	0.5681
95	0.32	0.4105
120	0.253	0.3247
150	0.206	0.2645
185	0.164	0.2108
240	0.125	0.1609
300	0.1	0.1290
400	0.0778	0.1010
500	0.0605	0.0789
630	0.0469	0.0619

绝缘标称厚度: Nominal insulation thickness

标称截面 nominal cross section mm ²	10	16	25	35	50	70	95
标称厚度 nominal thickness mm	0.7	0.7	0.9	0.9	1.0	1.1	1.1
标称截面 nominal cross section mm ²	120	150	185	240	300	400	500
标称厚度 nominal thickness mm	1.2	1.4	1.6	1.7	1.8	2.0	2.2

交流耐压试验: AC voltage withstand test

成品电缆经受交流 50Hz、3500V/5min 的电压试验不击穿, 对于单芯非铠装电缆, 则进行浸水耐压试验。The finished cable tested by AC 50Hz, 3500V/5min voltage without breakdown, and for single-core non-armoured cables, the submersible voltage test is carried out.

产品结构尺寸 (仅供参考): Product structure size (for reference only)

导体外径: Conductor OD

标称截面 nominal cross section mm ²	1.5	2.5	4	6	10	16	25	35	50
铝合金导体近似外径 Al alloy conductor approx. OD mm	/	/	/	/	3.9	4.8	6.0	6.9	8.1
标称截面 nominal cross section mm ²	70	95	120	150	185	240	300	400	500
铝合金导体近似外径 Al alloy conductor approx. OD mm	9.7	11.4	12.1	13.3	15.0	17.2	19.2	21.8	26.4

芯数 qty of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
1	10	1.4	7.7	74
1	16	1.4	8.7	98
1	25	1.4	10.1	136
1	35	1.4	11.1	170
1	50	1.4	12.4	219
1	70	1.4	14.1	295
1	95	1.5	16.0	385
1	120	1.5	17.6	475
1	150	1.6	19.6	577
1	185	1.6	21.7	719
1	240	1.7	24.3	915
1	300	1.8	26.6	1110
1	400	1.9	29.7	1411

catalog Aluminium alloy cable-铝合金电缆

芯数 qty of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
1	500	2.0	34.4	1775
2	10	1.8	14.2	191
2	16	1.8	16.2	254
2	25	1.8	19.1	353
2	35	1.8	21.1	425
2	50	1.8	23.7	548
2	70	1.8	27.1	696
2	95	1.9	30.7	914
2	120	2.0	34.0	1129
2	150	2.2	38.0	1373
2	185	2.3	42.4	1714
2	240	2.5	47.6	2177
2	300	2.6	52.2	2623
2	400	3.1	58.5	3556
2	500	3.1	67.9	4626
3	10	1.8	15.1	229
3	16	1.8	17.2	308
3	25	1.8	20.3	438
3	35	1.8	22.5	536
3	50	1.8	25.3	695
3	70	1.9	29.2	926
3	95	2.0	33.0	1218
3	120	2.1	36.6	1513
3	150	2.3	40.9	1843
3	185	2.4	45.6	2304
3	240	2.6	51.2	2941
3	300	2.7	56.1	3568
3	400	3.0	62.9	4710
3	500	3.2	73.0	6114
4	10	1.8	16.4	282
4	16	1.8	18.9	380
4	25	1.8	22.3	540
4	35	1.8	24.7	669
4	50	1.8	27.9	882
4	70	2.0	32.4	1188
4	95	2.1	36.7	1567
4	120	2.3	40.9	1950

芯数 qty of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
4	150	2.4	45.4	2383
4	185	2.6	50.9	2979
4	240	2.8	57.1	3814
4	300	3.0	62.8	4633
4	400	3.3	70.4	6103
4	500	3.5	81.6	7914
5	10	1.8	17.9	333
5	16	1.8	20.6	458
5	25	1.8	24.5	643
5	35	1.8	27.2	818
5	50	1.9	30.8	1063
5	70	2.1	35.8	1472
5	95	2.2	40.6	1942
5	120	2.4	45.2	2420
5	150	2.6	50.5	2957
5	185	2.8	56.6	3714
5	240	3.0	63.4	4754
5	300	3.2	69.7	5780
5	400	3.5	78.1	7556
5	500	3.8	90.8	9831
3+1	16/10	1.8	18.3	360
3+1	25/16	1.8	21.4	501
3+1	35/16	1.8	23.3	600
3+1	50/25	1.8	26.5	793
3+1	70/35	1.9	30.4	1080
3+1	95/50	2.1	34.6	1397
3+1	120/70	2.2	38.7	1762
3+1	150/70	2.3	42.2	2086
3+1	185/95	2.5	47.4	2635
3+1	240/120	2.6	52.9	3348
3+1	300/150	2.8	58.4	4077
4+1	16/10	1.8	20.1	435
4+1	25/16	1.8	23.7	620
4+1	35/16	1.8	25.8	751
4+1	50/25	1.9	29.6	1010
4+1	70/35	2.0	34.0	1387
4+1	95/50	2.2	38.7	1806

芯数 qty of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
4+1	120/70	2.3	43.3	2277
4+1	150/70	2.5	47.6	2654
4+1	150/95	2.5	48.5	2756
4+1	185/95	2.6	53.2	3387
4+1	240/120	2.9	59.8	4332
4+1	300/150	3.1	65.9	5327
3+2	16/10	1.8	19.5	410
3+2	25/16	1.8	22.9	570
3+2	35/16	1.8	24.5	660
3+2	50/25	1.8	28.2	894
3+2	70/35	2.0	32.4	1211
3+2	95/50	2.1	36.7	1579
3+2	120/70	2.3	41.5	2023
3+2	150/70	2.4	44.6	2333
3+2	185/95	2.5	50.1	2968
3+2	240/120	2.7	56.1	3771
3+2	300/150	2.9	61.9	4603

芯数 qty of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆参考重量 Cable reference weight kg/km
				YJLHV62/YJLHV22
1	10	1.8	11.1	175
1	16	1.8	12.1	210
1	25	1.8	13.6	266
1	35	1.8	14.6	311
1	50	1.8	15.8	377
1	70	1.8	17.5	472
1	95	1.8	19.2	578
1	120	1.8	20.7	682
1	150	1.8	22.5	796
1	185	1.8	24.7	955
1	240	1.8	27.2	1167
1	300	1.9	29.6	1380

catalog Aluminium alloy cable-铝合金电缆

芯数 qty of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
1	400	2.0	32.7	1716
1	500	2.2	39.7	2515
2	10	1.8	16.4	319
2	16	1.8	18.4	400
2	25	1.8	21.2	527
2	35	1.8	23.2	618
2	50	1.8	25.8	767
2	70	1.9	29.5	956
2	95	2.0	33.0	1206
2	120	2.2	39.3	1868
2	150	2.3	43.1	2180
2	185	2.4	47.5	2620
2	240	2.6	53.3	3241
2	300	2.8	58.1	3769
2	400	3.2	63.7	4728
2	500	3.2	73.1	6029
3	10	1.8	17.2	364
3	16	1.8	19.4	462
3	25	1.8	22.5	623
3	35	1.8	24.6	741
3	50	1.8	27.4	931
3	70	2.0	31.5	1520
3	95	2.2	38.3	1928
3	120	2.3	41.9	2307
3	150	2.4	46.0	2710
3	185	2.6	50.9	3279
3	240	2.7	56.9	4083
3	300	2.9	62.1	4800
3	400	3.2	68.3	6041
3	500	3.4	78.4	7656
4	10	1.8	18.6	429
4	16	1.8	21.0	549
4	25	1.8	24.5	743
4	35	1.8	26.9	895

catalog Aluminium alloy cable-铝合金电缆

芯数 qty of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
4	50	1.9	30.2	1149
4	70	2.1	34.7	1497
4	95	2.3	41.9	2354
4	120	2.4	46.0	2830
4	150	2.6	51.3	3393
4	185	2.7	56.6	4114
4	240	2.9	62.9	5086
4	300	3.1	68.5	6007
4	400	3.4	75.6	7556
4	500	3.7	88.2	10470
5	10	1.8	20.1	493
5	16	1.8	22.8	642
5	25	1.8	26.6	866
5	35	1.9	29.5	1075
5	50	2.0	33.2	1360
5	70	2.2	40.9	2244
5	95	2.4	45.9	2814
5	120	2.6	50.5	3396
5	150	2.7	56.2	4077
5	185	2.9	62.3	4971
5	240	3.1	69.2	6169
5	300	3.4	75.7	7691
5	400	3.7	84.7	10003
5	500	4.0	97.5	12673
3+1	25/16	1.8	23.6	696
3+1	35/16	1.8	25.4	812
3+1	50/25	1.9	28.8	1043
3+1	70/35	2.0	32.7	1371
3+1	95/50	2.2	39.7	2139
3+1	120/70	2.3	43.8	2598
3+1	150/70	2.5	47.5	2984
3+1	185/95	2.6	53.1	3691

芯数 qty of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
3+1	240/120	2.8	58.8	4534
3+1	300/150	3.0	64.3	5359
4+1	25/16	1.8	25.9	834
4+1	35/16	1.8	28.0	988
4+1	50/25	2.0	32.0	1293
4+1	70/35	2.2	39.3	2122
4+1	95/50	2.3	43.8	2637
4+1	120/70	2.5	48.6	3211
4+1	150/70	2.6	53.3	3713
4+1	150/95	2.7	54.4	3832
4+1	185/95	2.8	59.1	4532
4+1	240/120	3.0	65.6	5602
4+1	300/150	3.2	71.7	6712
3+2	25/16	1.8	25.1	777
3+2	35/16	1.8	26.7	883
3+2	50/25	1.9	30.5	1162
3+2	70/35	2.1	36.9	1521
3+2	95/50	2.3	42.0	2368
3+2	120/70	2.4	46.6	2917
3+2	150/70	2.5	49.7	3285
3+2	185/95	2.7	56.0	4086
3+2	240/120	2.9	62.0	5027
3+2	300/150	3.1	67.9	5964

导体短路电流: Conductor short-circuit current

标称截面 nominal cross section mm ²	铝合金芯 aluminum alloy-conductor I kA		
	t=1s	t=3s	t=5s
10	0.94	0.55	0.42
16	1.51	0.87	0.68
25	2.36	1.36	1.06
35	3.31	1.91	1.48
50	4.72	2.73	2.11
70	6.61	3.82	2.96
95	8.98	5.18	4.01
120	11.34	6.55	5.07
150	14.17	8.18	6.34
185	17.48	10.09	7.82
240	22.68	13.09	10.14
300	28.35	16.37	12.68
400	37.79	21.82	16.90
500	47.24	27.28	21.13
630	59.52	34.37	26.62

载流量(包含修正系数): Current carrying capacity (including correction factor)

铝合金芯电力电缆载流量 Aluminum alloy core power cable carrying capacity (A)

标称 截面 nominal cross section mm ²	非铠型电缆 Non-armored cable						钢带铠装型电缆 Steel tape armoured type cable					
	单芯 single core		二芯 two cores		三-五芯 3-5 cores		单芯 single core		二芯 two cores		三-五芯 3-5 cores	
	空气 Air	土壤 soil	空气 Air	土壤 soil	空气 Air	土壤 soil	空气 Air	土壤 soil	空气 Air	土壤 soil	空气 Air	土壤 soil
10	55	71	58	78	50	66	55	69	58	77	50	65
16	71	91	75	100	65	85	71	95	75	105	64	85
25	94	115	100	130	87	110	95	117	100	130	86	110
35	115	140	120	155	105	130	114	140	120	155	105	130
50	140	165	150	185	130	160	138	167	145	185	125	155
70	180	205	190	225	165	195	181	207	190	230	165	190
95	220	245	235	275	205	235	223	248	235	275	200	230
120	260	280	275	315	240	265	257	284	270	315	235	260
150	300	315	315	350	270	300	295	320	310	355	270	295
185	350	360	365	395	315	340	337	360	355	400	310	335
240	415	420	435	450	375	395	385	405	405	450	365	390
300	485	475	515	515	435	445	437	455	460	505	420	440
400	570	545	605	590	510	510	499	513	525	570	495	505
500	670	620	705	685	600	595	575	585	605	650	580	585
630	790	705	815	800	710	700	670	675	705	750	685	690

注 Note: 空气中环境温度 40℃; 土壤中环境温度 25℃、热阻系数 1.0、埋地深度 700mm air temperature 40℃; Soil temperature 25℃, Thermal resistance coefficient 1.0, and buried depth 700mm

环境温度不同时的载流量修正系数表

Correction coefficient of carrying current at different ambient temperature

导体工作温度 Conductor operating temperature ℃	空气中环境温度℃ Ambient temperature in the air							
	20	25	30	35	40	45	50	55
90	1.23	1.17	1.12	1.06	1.00	0.94	0.87	0.81

导体工作温度 Conductor operating temperature ℃	土壤中环境温度℃ Ambient temperature in soil							
	10	15	20	25	30	35	40	
90	1.11	1.07	1.04	1.00	0.96	0.92	0.88	

不同土壤热阻系数的载流量修正系数 Current-carrying correction coefficients of different soil thermal resistance coefficients

热阻系数 thermal resistivity $\rho_v = (K \cdot m/W)$	1.0	1.2	1.5	2.0	2.5
校正系数 correction coefficient	1	0.93	0.85	0.75	0.67

注 Note: 给出的校正系数是敷设方式范围内的平均值, 校正系数的综合误差在 $\pm 5\%$ 以内。The correction coefficient given is the average value among the laying methods, and the tolerance of the correction coefficient is within $\pm 5\%$

电缆安装时的最小弯曲半径: Minimum bending radius during cable installation:

项目 item	单芯电缆 single core		三芯电缆 3 cores	
	无铠装 Non-armored	有铠装 armoring	无铠装 Non-armored	有铠装 armoring
安装时的电缆 最小弯曲半径 Minimum bending radius while install	20D	15D	15D	12D
靠近连接盒和终端时 电缆最小弯曲半径 Minimum bending radius while close to the cable connector and terminal	15D	12D	12D	10D

注 Note: D 为电缆外径 D is the outer diameter of the cable

电缆装卸、运输、敷设要求: Requirements during cable handling, transportation, laying

1、确认收货前应对电缆外观进行检查, 确认电缆本体、两端封帽无擦伤、撞伤、压伤等破损现象, 如有异常应及时联系我司, 否则视为交付产品的外观质量符合要求。Before accepting the goods, the appearance of the cable should be checked to ensure that the cable body and the sealing caps at both ends are free from any damage such as scratches, bumps, or crush. If any abnormality occurs, please contact us in time. Otherwise, the appearance quality of the delivered products shall be deemed to meet the requirements.

2、电缆吊装、运输、敷设过程要妥善保护, 电缆本体及两端封帽要确保无破损, 防止雨水或其它有害气体、液体进入电缆内部, 导致电缆电性能受到影响。光电复合电缆两端预留长度的光缆单元不能被单独施加外力、不能发生大于 45° 的弯折, 防止光纤折断, 难以接续。Cable shall be properly protected while hoisting, transportation, and in laying process, the cable and caps at both ends have to remain in good condition to prevent rain or other harmful gases, liquids into the cable, to affect cable electrical performance. The optical fiber power composite cable units with the reserved length at both ends cannot be applied by external forces alone or bend more than 45 degrees to prevent the optical fiber from being broken and difficult to connect.

3、电缆长时间存放处应干燥, 避免长时间暴露于露天或潮湿地方, 低烟无卤阻燃电缆(WDZ)、柔性防火电缆等产品不得长期处于露天环境下, 以免因长期暴晒导致电缆护套颜色变化及护套机械性能收到影响。Cable should be stored in dry place, avoid long-term exposure to open air or humid places, low-smoke halogen-free flame retardant cable (WDZ), flexible fireproof cable should not be in open environment for a long time, so as to avoid cable sheath color fading and mechanical properties been affected.

4、电缆敷设前, 应核对电缆型号、规格、额定电压是否正确, 检验合格后方可允许敷设。Before laying the cable, model/type, specification and rated voltage of the cable should be check and confirmed.

5、安装敷设过程中, 如因天气原因暂停敷设, 电缆要放置于安全、干燥处, 防止受到外力撞击, 如电缆封帽已去掉, 电缆端头应做好保护措施, 防止湿气或雨水进入电缆内部。During the installation and laying, if suspended due to weather reasons, the cable should be placed in a safe and dry place to prevent external impact, if the cable cap has been removed, the cable end should take protective measures to prevent moisture or rain from entering the cable.

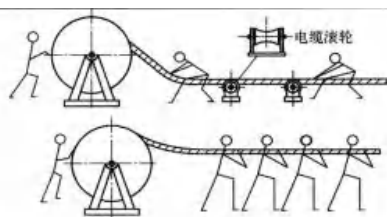
6、敷设时遇有中间接头、终端接头以及弯道处, 应根据实际情况适当留有余量, 以作为如后期电缆发生故障后备用。During laying, when comes to joints, couplings, ends or bended area, some cables should be reserved in case of maintenance in the future

7、电缆敷设过程中，为了防止弯曲过度而损坏，电缆的弯曲半径应符合国标 GB/T31840-2015 标准规定规定：In the process of cable laying, in order to prevent excessive bending and damage, the bending radius of the cable should comply with the National Standard GB/T31840-2015

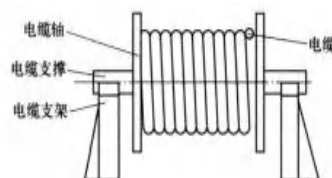
8、按国家标准要求，电缆敷设环境温度应不低于 0℃，寒冷季节敷设电缆时，敷设现场的温度低于 0℃时，应将电缆进行预先加热处理。敷设时间最好选择在环境温度较高时进行。According to the requirements of national standards, the ambient temperature of cable laying should not be lower than 0℃. When laying cables in cold season, when the temperature of the laying site is lower than 0℃, the cables should be pre-heated. It is recommend to laying in hot season

9、电缆施放时应按照电缆轴上箭头指示或图一所示电缆放线方向施放，切不可反方向滚动，以免因电缆松弛造成压线现象。The cable should be laid according to the direction of arrow shown on cable shaft or as shown in picture 1. Do not roll to the opposite direction to avoid compression caused by cable loosen.

10、电缆支架方式敷设时，支架设地点应选好，以敷设方便为准，一般应在电缆起止点附近为宜，应注意电缆轴的转动方向，电缆引出端应在轴的上方，见图二：When laying the cable support, the installation location should be selected, and the ease installation shall prevail. Generally, it should be near the starting and ending point of the cable. Attention should be paid to the rotation direction of the cable shaft, and the cable leading end should be above the shaft, as shown in picture 2:



picture 1



picture 2

11、电缆可采用图一所示人力拉引或图三机械牵引方法敷设（符合国标 GB50618-2016）。The cable can be laid by manual pulling as shown in picture 1 or mechanical pulling as shown in picture 3 (in accordance with the national standard GB50618-2016).

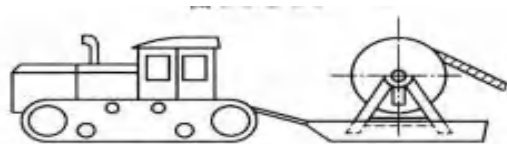


图 三 picture 3

二、额定电压 1.8/3kV 及以下铝合金芯交联聚乙烯绝缘电力电缆

Rated voltage 1.8/3kV and below aluminum alloy core crosslinked polyethylene insulated power cable

依据标准:according to the standard

GB / T 31840.1 额定电压 1kV ($U_m=1.2\text{kV}$) 到 35kV ($U_m=40.5\text{kV}$) 铝合金芯挤包绝缘电力电缆

第 1 部分：额定电压 1kV($U_m=1.2\text{kV}$)和 3kV($U_m=3.6\text{kV}$) 电缆 Rated voltage 1kV($U_m=1.2\text{kV}$) to 35kV($U_m=40.5\text{kV}$) aluminum alloy core extruded insulated power cable

Part 1: Cables with rated voltages of 1kV($U_m=1.2\text{kV}$) and 3kV($U_m=3.6\text{kV}$)

适用范围: scope of application

本产品适用于额定电压 1.8/3kV 输配电线路作配送电能之用。This product is suitable for the rated voltage 1.8/3kV transmission and distribution lines

使用特性: operating characteristic

额定电压 U_0/U 为 1.8/3kV, Rated voltage U_0/U 1.8/3kV

最高系统电压 U_m 为 3.6 kV, Maximum system voltage U_m 3.6kV

电缆导体的最高允许工作温度为 90℃ The maximum allowed operating temperature of the conductor is 90℃

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℃ The maximum short-circuit temperature of the conductor shall not exceed 250 ° C (5s maximum duration)

电缆敷设时环境温度应不低于 0℃ The ambient temperature should not be lower than 0 ° C when the cable is laid

型号规格: type and specification

型号 type	芯数 Nrws of cores	名称 Name
YJLHV	1、2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated PVC sheathed power cable
YJLHY	1、2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulation PE sheathed power cable
YJLHV62	1	铝合金芯交联聚乙烯绝缘非磁性金属带铠装聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated non-magnetic metal tape armoured PVC sheathed power cable
YJLHY63	1	铝合金芯交联聚乙烯绝缘非磁性金属带铠装聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated non-magnetic metal tape armoured polyethylene sheathed power cable
YJLHV22	2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated steel tape armouring PVC sheathed power cable
YJLHY23	2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated steel tape armoured polyethylene sheathed power cable
YJLHV32	2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated fine wire armouring polyvinyl chloride sheathed power cable
YJLHY33	2、3、4、5、3+1、3+2、4+1	铝合金芯交联聚乙烯绝缘细钢丝铠装聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated fine wire armoured polyethylene sheathed power cable
注 note: 金属屏蔽层也可采用铝合金带屏蔽 Metal shielding layer can also be used aluminum alloy with shielding		

备注: note

可根据用户需求, 生产各类阻燃、低烟无卤、耐火及耐寒电力电缆; all kinds of flame-retardant, low-smoke halogen-free, fire-resistant and cold-resistant power cables are available according to requirements.

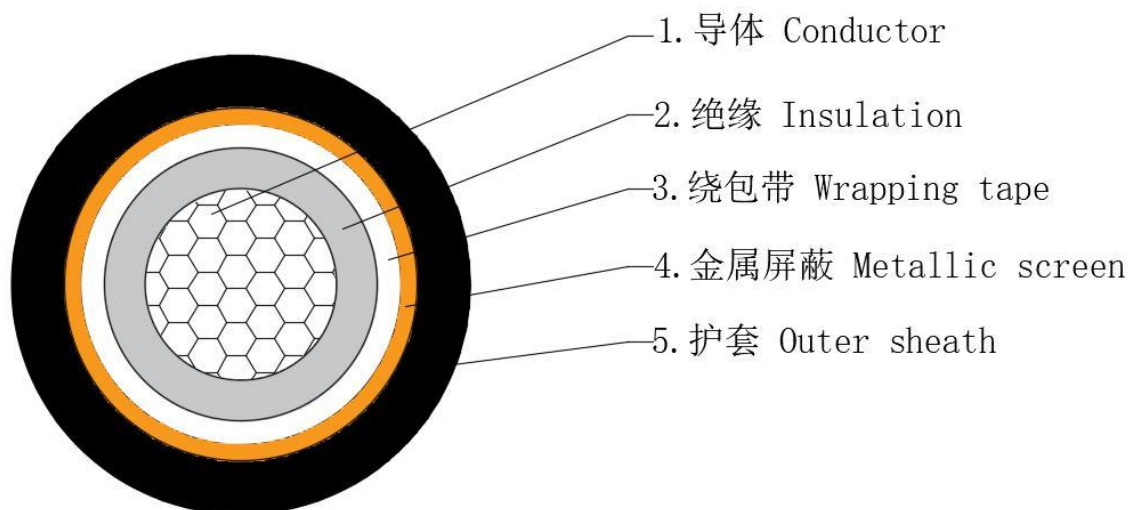
阻燃电缆可在型号中加阻燃特性符号, 如 Z, ZC, ZB, ZA; Flame retardant cable model has characteristic symbol, such as Z, ZC, ZB, ZA;

低烟无卤可在型号中加无卤低烟特性符号, 如 WD; Low-smoke halogen-free model has characteristic symbol, such as WD;

耐寒电缆可在型号中加耐寒特性符号, 如 HD。Cold resistance cable model has characteristic symbol, such as HD.

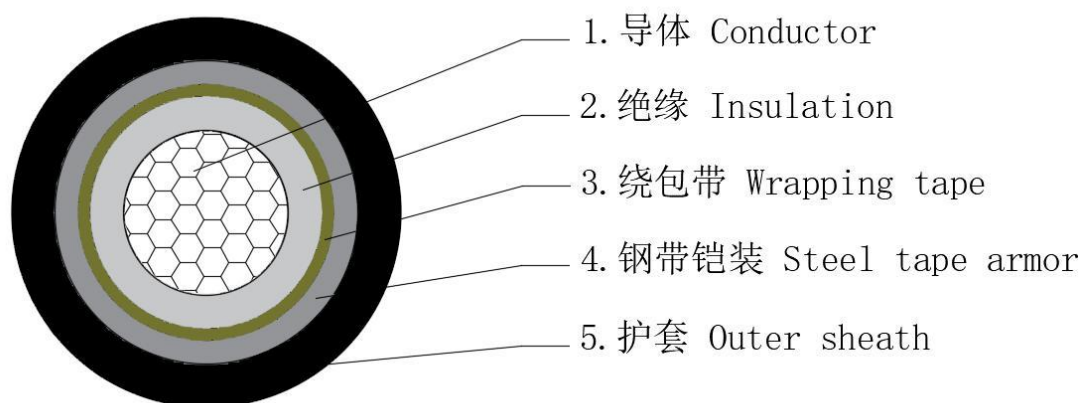
耐火电缆可在型号中加耐火特性符号, 如 N。Fire resistant cable model has characteristic symbol, such as N.

结构示意图: structural illustration



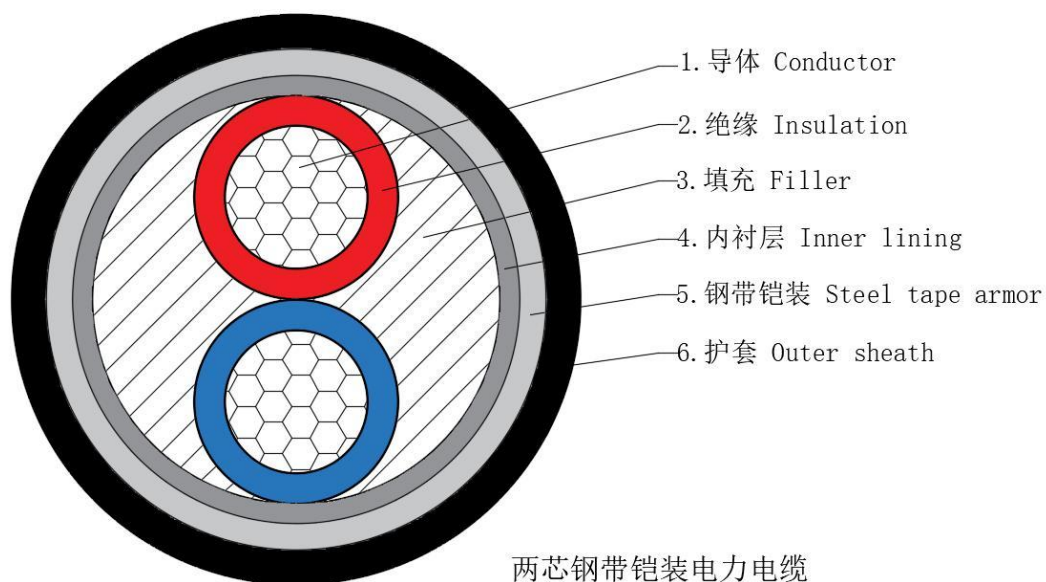
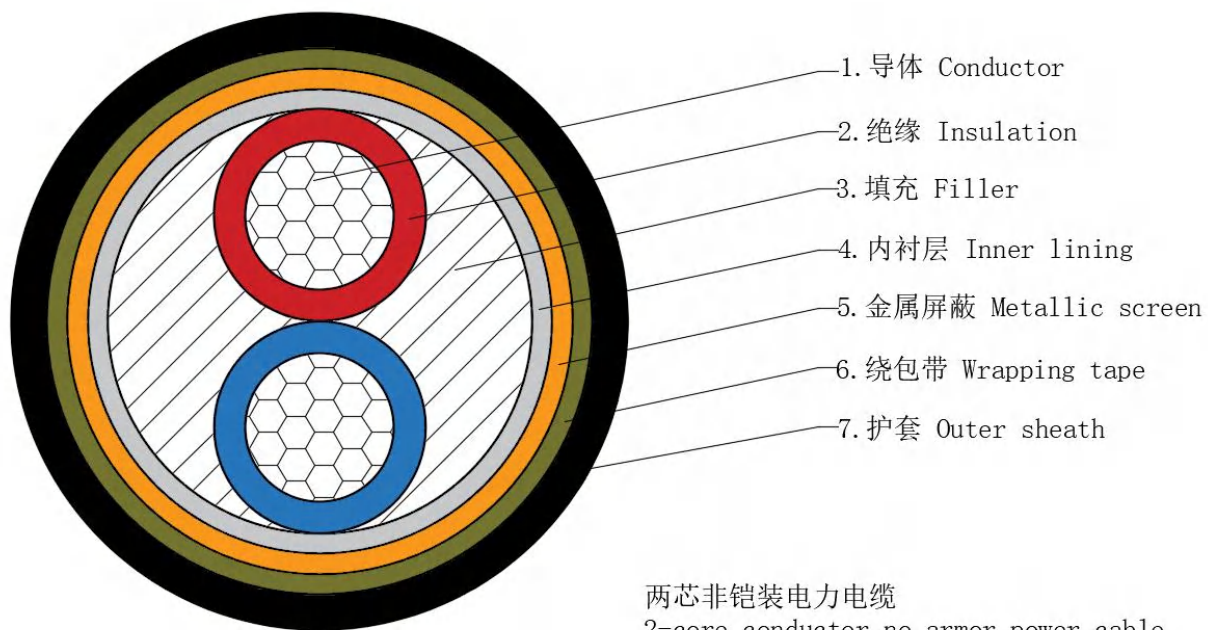
单芯非铠装电力电缆

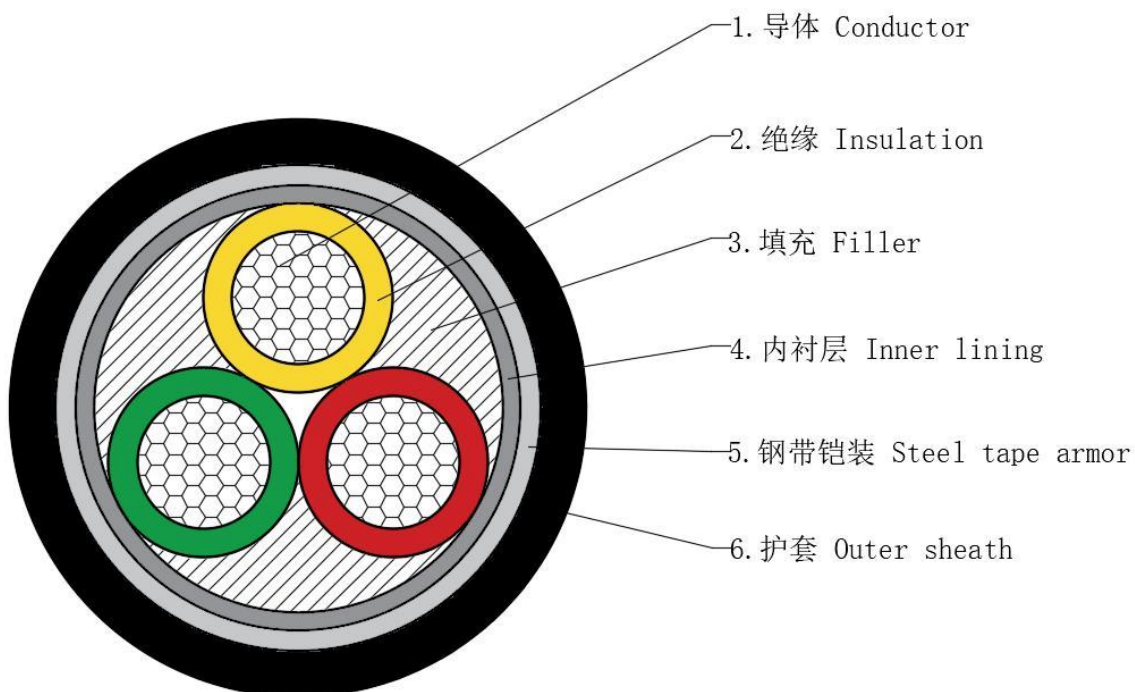
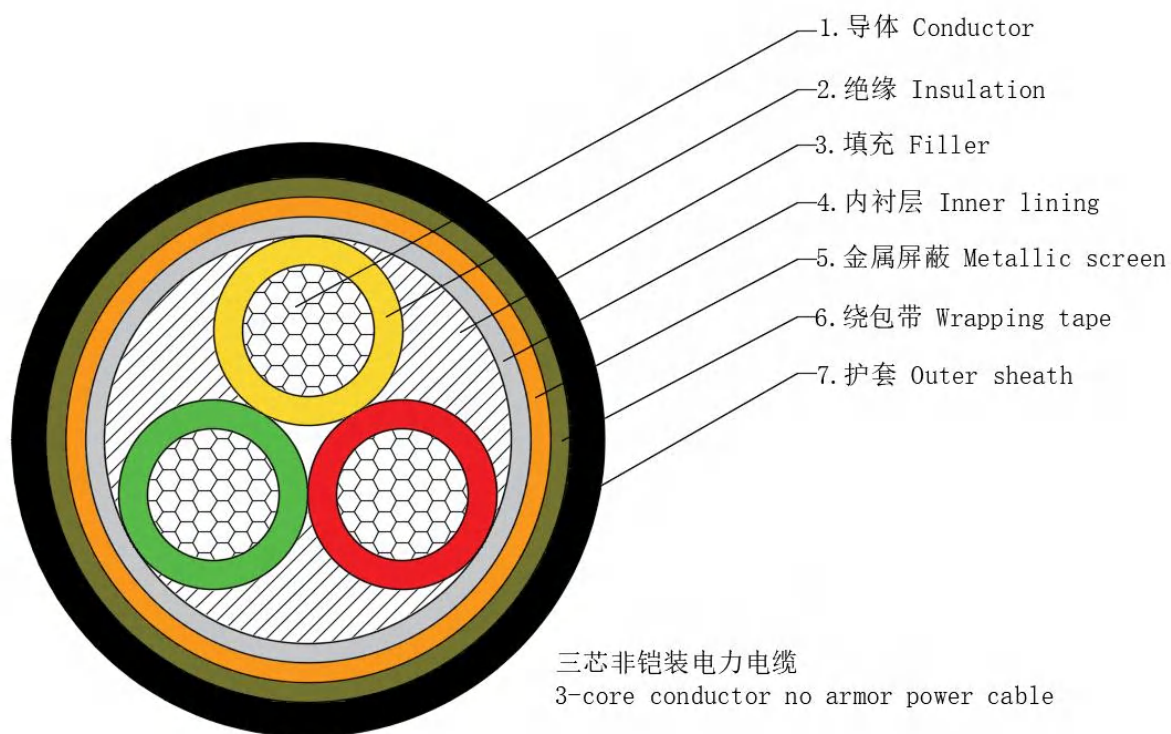
1-core conductor no armor power cable



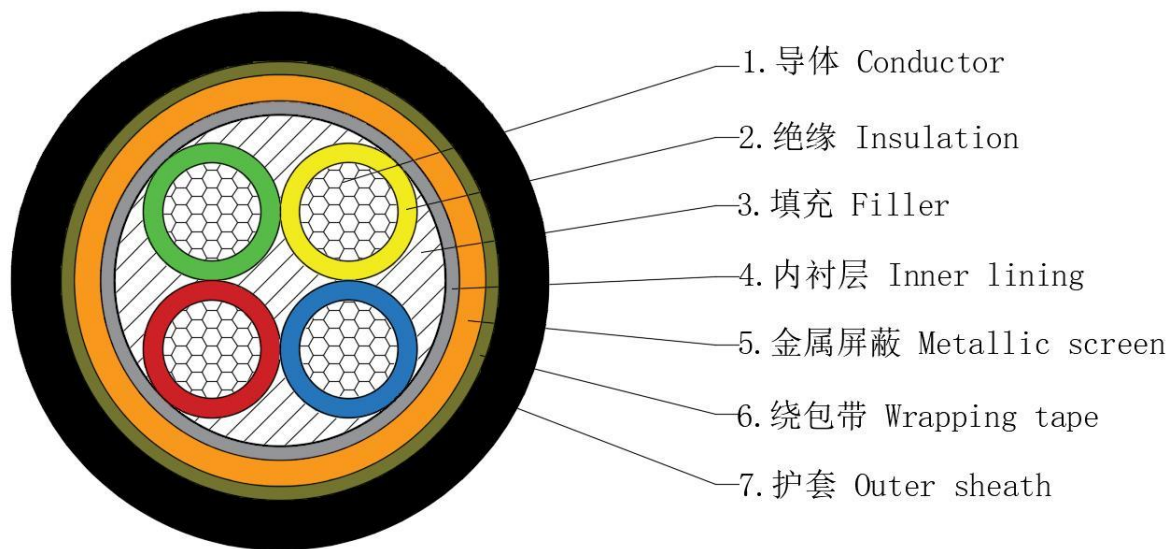
单芯钢带铠装电力电缆

1-core conductor steel tape armor power cable

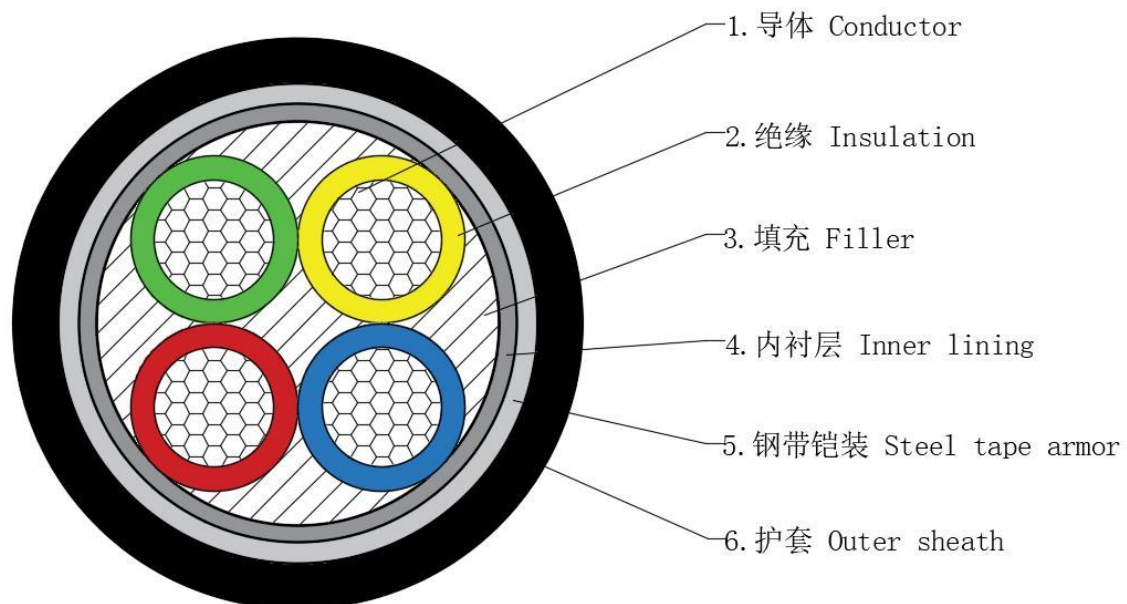




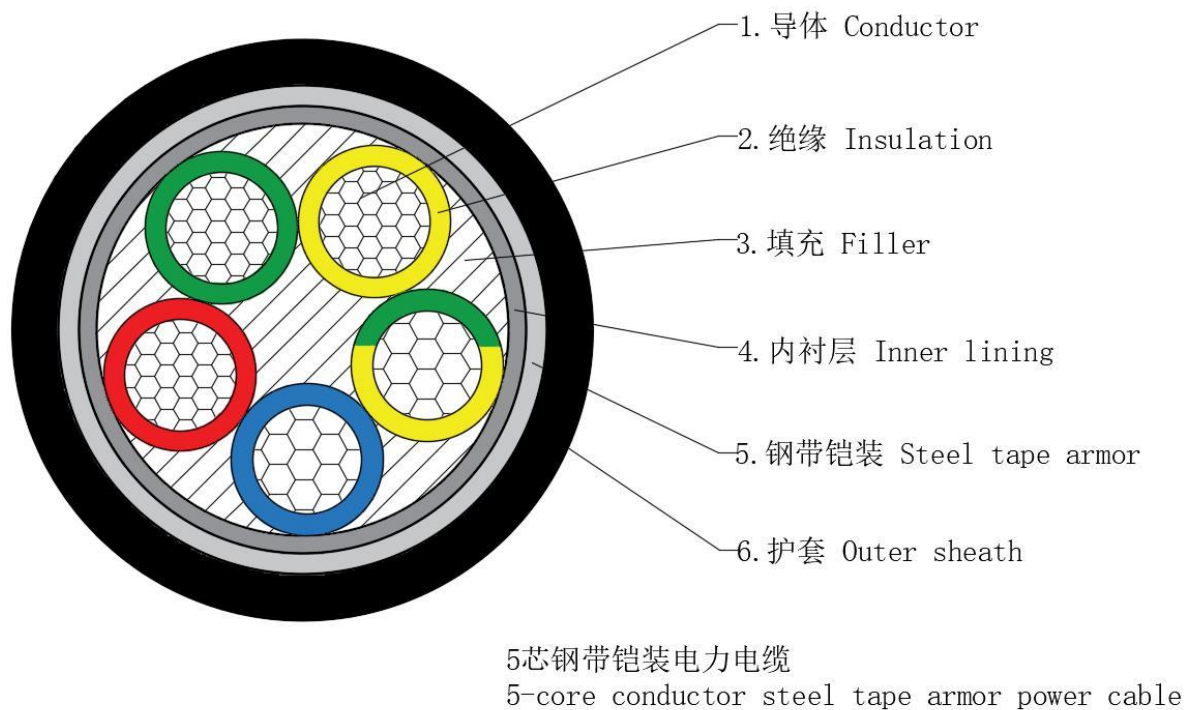
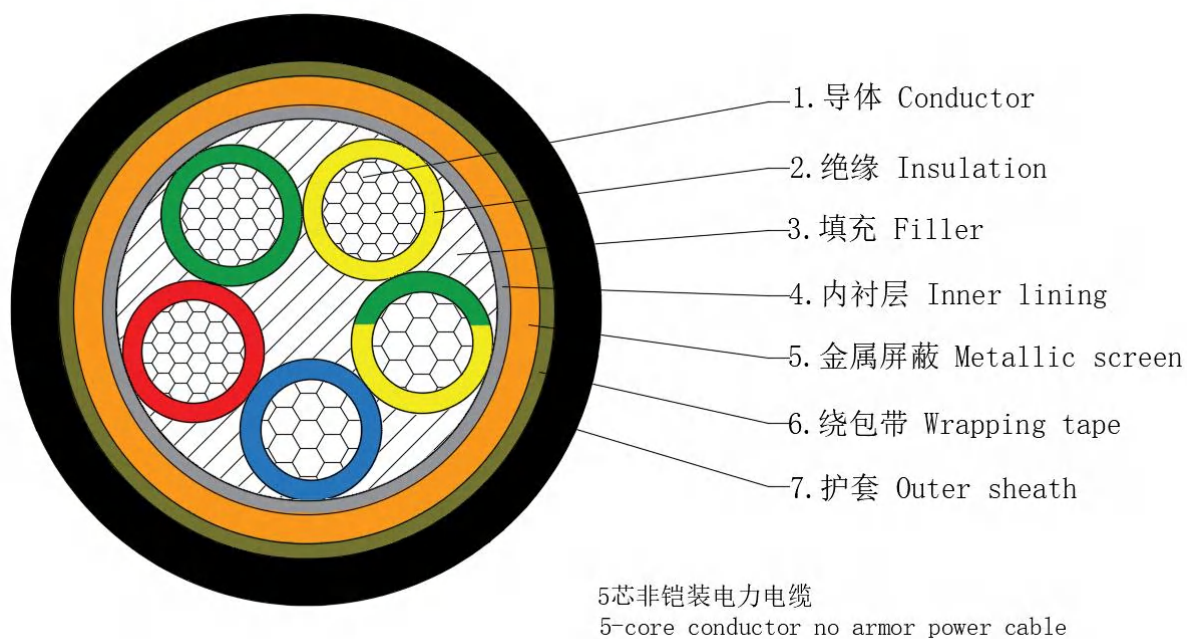
三芯钢带铠装电力电缆
3-core conductor steel tape armor power cable

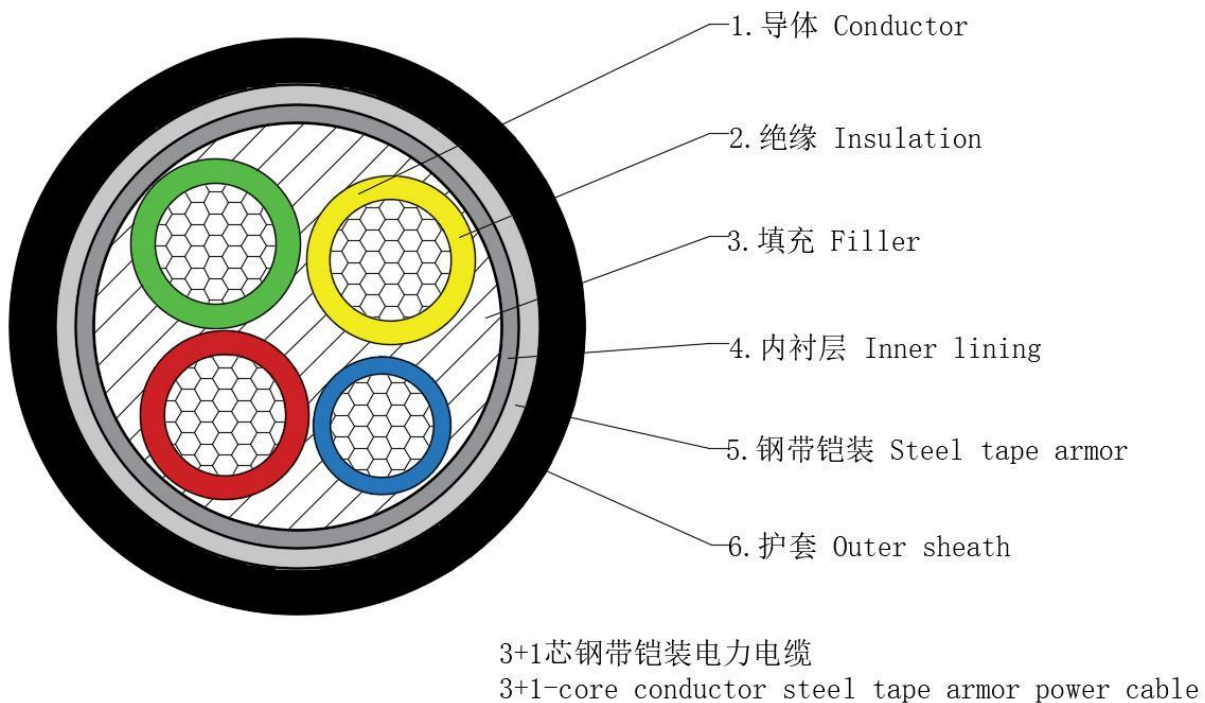
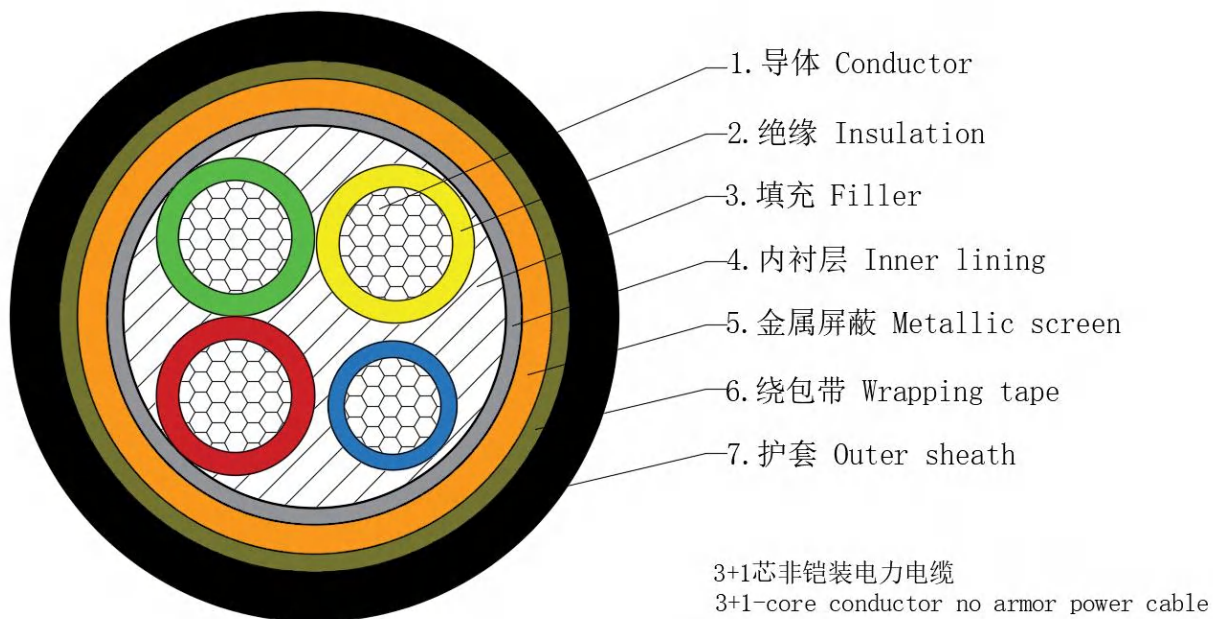


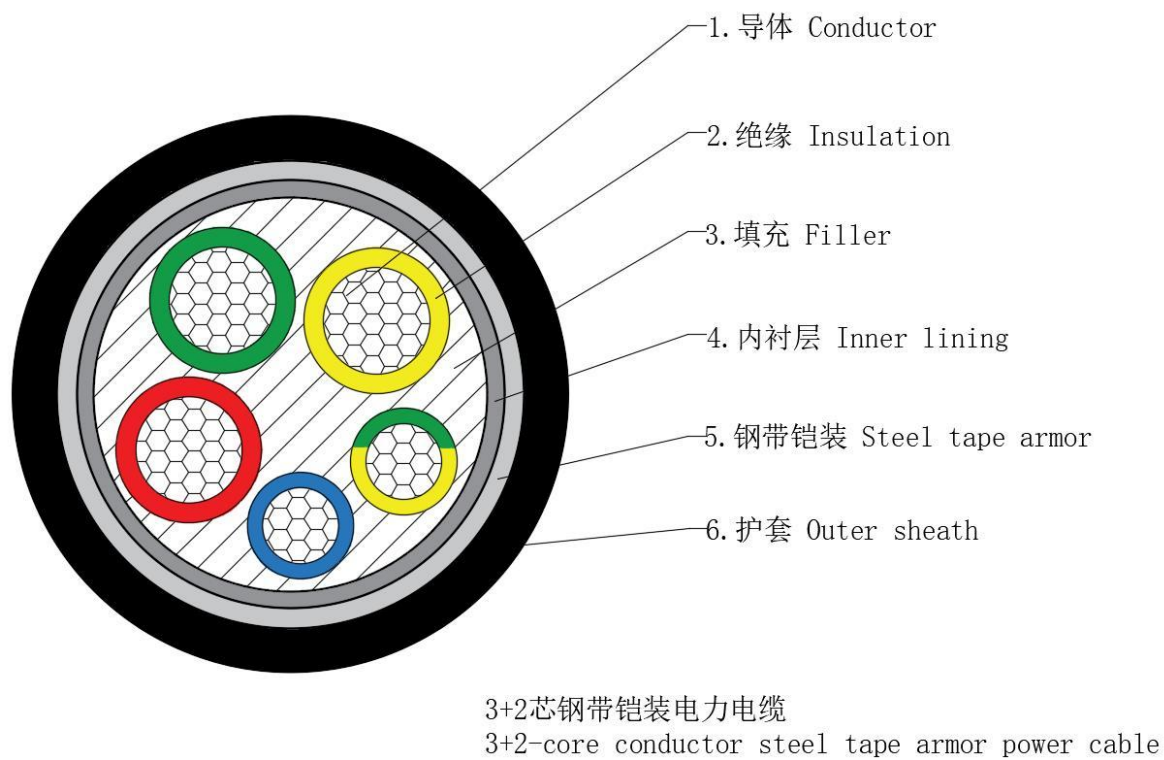
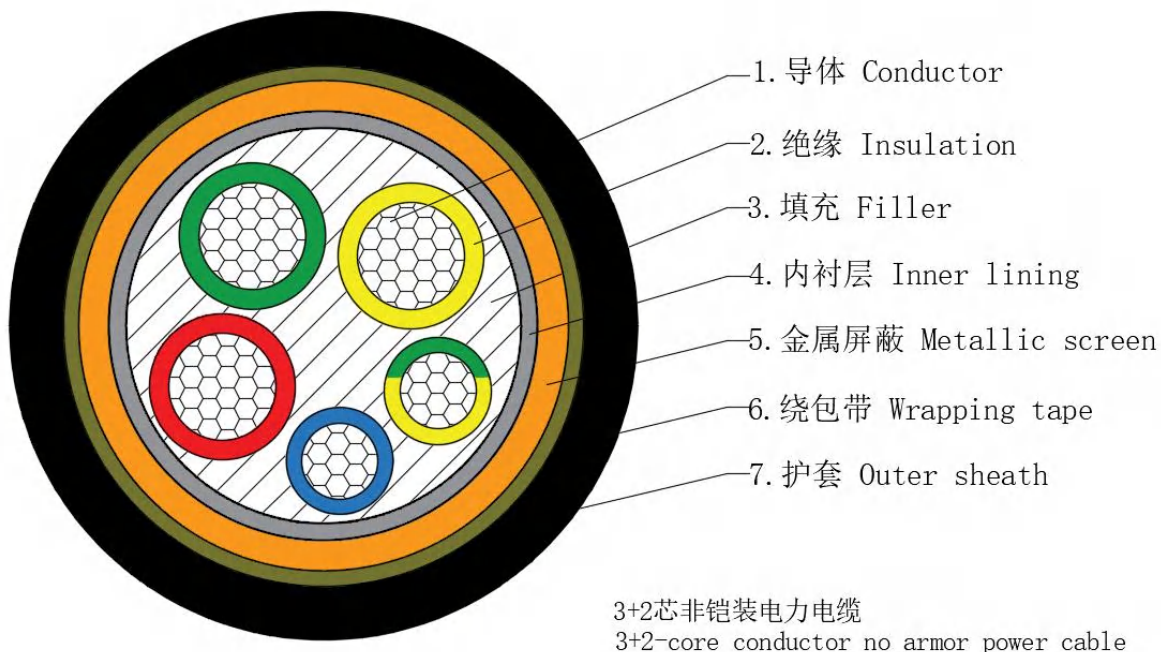
4芯非铠装电力电缆
4-core conductor no armor power cable

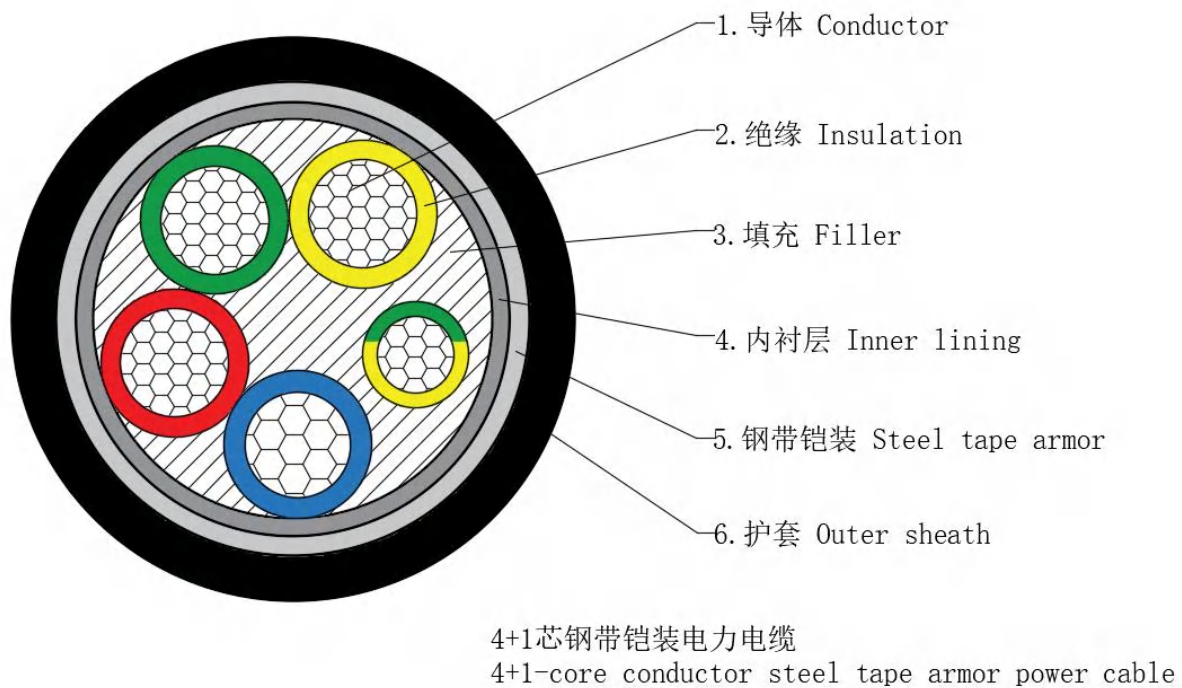
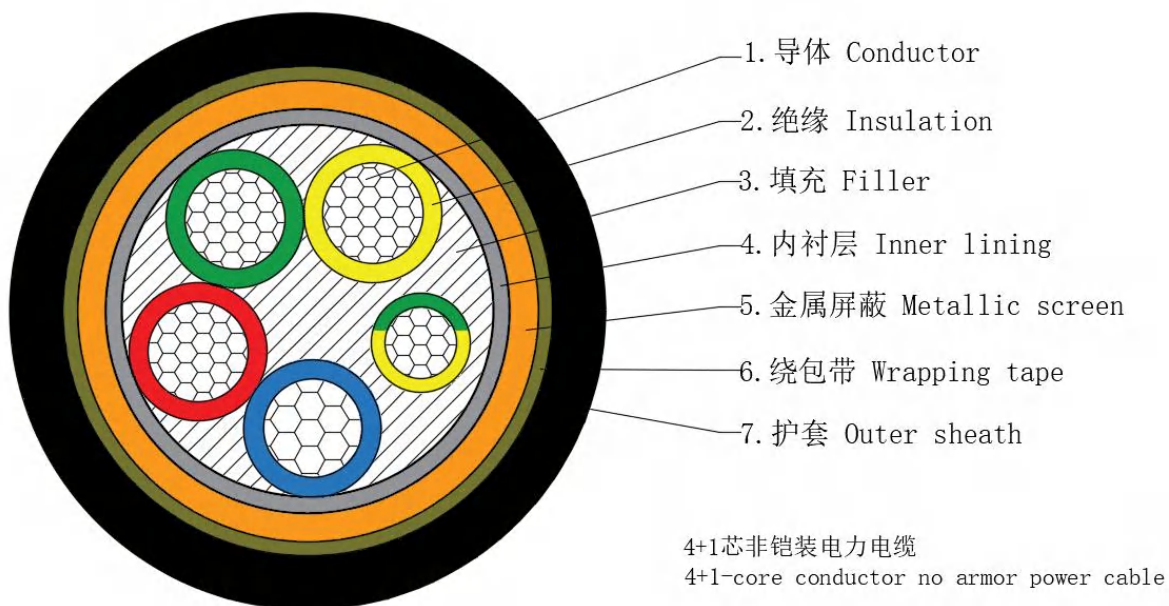


4芯钢带铠装电力电缆
4-core conductor steel tape armor power cable









导体最大直流/交流电阻: Conductor maximum DC/AC resistance:

导体标称截面 Nominal cross section of conductor mm ²	20℃最大直流电阻 max DC resistance at 20℃ Ω/km	90℃最大交流电阻 max AC resistance at 90℃ Ω/km
	铝合金 aluminium alloy	铝合金 aluminium alloy
10	3.08	3.9487
16	1.91	2.4487
25	1.2	1.5385
35	0.868	1.1130
50	0.641	0.8220
70	0.443	0.5681
95	0.32	0.4105
120	0.253	0.3247
150	0.206	0.2645
185	0.164	0.2108
240	0.125	0.1609
300	0.1	0.1290
400	0.0778	0.1010
500	0.0605	0.0789
630	0.0469	0.0619

绝缘标称厚度: Nominal insulation thickness:

标称截面 nominal cross section mm ²	1.5	2.5	4	6	10	16	25	35	50
标称厚度 nominal thickness mm	/	/	/	/	2.0	2.0	2.0	2.0	2.0
标称截面 nominal cross section mm ²	70	95	120	150	185	240	300	400	500
标称厚度 nominal thickness mm	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2

交流耐压试验: AC voltage withstand test

成品电缆经受交流 50Hz、6500V/5min 的电压试验不击穿。The finished cable can withstand AC 50Hz, 6500V/5min voltage test without breakdown.

产品结构尺寸 (仅供参考): Product structure size (for reference only)

导体外径: Outer diameter of conductor:

标称截面 nominal cross section mm ²	1.5	2.5	4	6	10	16	25	35	50
铝合金导体近似外径 Aluminum alloy conductor approximate outer diameter mm	/	/	/	/	3.9	4.8	6.0	6.9	8.1
标称截面 nominal cross section mm ²	70	95	120	150	185	240	300	400	500
铝合金导体近似外径 Aluminum alloy conductor approximate outer diameter mm	9.7	11.4	12.1	13.3	15.0	17.2	19.2	21.8	26.4

芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
1	10	1.4	11.3	163
1	16	1.4	12.3	196
1	25	1.4	13.3	237
1	35	1.4	14.3	276
1	50	1.5	15.6	338
1	70	1.5	17.1	420
1	95	1.6	19.0	532
1	120	1.6	20.4	622
1	150	1.7	22.0	724

芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
1	185	1.7	23.7	856
1	240	1.8	26.0	1060
1	300	1.9	28.2	1267
1	400	2.0	30.9	1561
1	500	2.1	35.6	1932
2	10	1.8	20.0	376
2	16	1.8	22.0	460
2	25	1.8	24.0	562
2	35	1.8	26.0	635
2	50	1.9	28.3	780
2	70	2.0	31.5	946
2	95	2.1	35.1	1196
2	120	2.2	38.0	1409
2	150	2.3	41.0	1637
2	185	2.4	44.6	1977
2	240	2.6	49.9	2488
2	300	2.7	54.1	2950
2	400	2.9	59.4	3639
2	500	3.3	69.2	4930
3	10	1.8	21.2	449
3	16	1.8	23.4	555
3	25	1.8	25.6	683
3	35	1.9	27.9	805
3	50	2.0	30.4	992
3	70	2.1	33.9	1229
3	95	2.2	37.7	1570
3	120	2.3	40.9	1862
3	150	2.4	44.1	2191
3	185	2.5	48.5	2655
3	240	2.7	53.6	3306
3	300	2.8	58.1	3948
3	400	3.1	64.0	4913
3	500	3.3	74.1	6414
4	10	1.8	23.3	541
4	16	1.8	25.7	675
4	25	1.9	28.3	849

芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
4	35	2.0	30.9	1004
4	50	2.1	33.8	1244
4	70	2.2	37.6	1552
4	95	2.3	41.8	2009
4	120	2.4	45.4	2385
4	150	2.6	49.7	2836
4	185	2.7	54.0	3400
4	240	2.9	59.7	4244
4	300	3.0	64.7	5072
4	400	3.3	71.2	6318
4	500	3.6	82.7	8247
5	10	1.8	25.6	640
5	16	1.8	28.3	805
5	25	2.0	31.3	1029
5	35	2.1	34.2	1221
5	50	2.2	37.3	1511
5	70	2.3	41.5	1889
5	95	2.5	47.1	2503
5	120	2.6	51.0	2973
5	150	2.7	55.0	3466
5	185	2.9	59.9	4181
5	240	3.1	66.2	5219
5	300	3.3	71.9	6275
5	400	3.6	79.2	7814
5	500	3.9	91.9	10202
3+1	16/10	1.8	25.1	650
3+1	25/16	1.8	27.6	800
3+1	35/16	1.9	29.5	934
3+1	50/25	2.0	32.3	1141
3+1	70/35	2.1	35.8	1453
3+1	95/50	2.3	39.9	1856
3+1	120/70	2.4	43.5	2250
3+1	150/70	2.5	46.8	2597
3+1	185/95	2.6	51.1	3154
3+1	240/120	2.8	56.3	3914
3+1	300/150	2.9	60.9	4677

芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV
4+1	16/10	1.8	27.7	777
4+1	25/16	1.9	30.6	974
4+1	35/16	2.0	32.9	1148
4+1	50/25	2.1	36.0	1404
4+1	70/35	2.3	40.1	1811
4+1	95/50	2.4	44.6	2301
4+1	120/70	2.6	49.3	2837
4+1	150/70	2.7	52.5	3255
4+1	150/95	2.7	53.5	3386
4+1	185/95	2.8	57.3	3947
4+1	240/120	3.0	63.1	4908
4+1	300/150	3.2	68.6	5900
3+2	16/10	1.8	27.0	759
3+2	25/16	1.9	29.8	956
3+2	35/16	2.0	31.6	1088
3+2	50/25	2.1	34.7	1338
3+2	70/35	2.2	38.3	1695
3+2	95/50	2.3	42.5	2137
3+2	120/70	2.5	47.3	2673
3+2	150/70	2.6	49.7	2985
3+2	185/95	2.7	54.5	3661
3+2	240/120	2.9	59.9	4524
3+2	300/150	3.1	65.0	5425

芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV62/YJLHV22
1	10	1.8	13.8	212
1	16	1.8	14.8	249
1	25	1.8	15.9	291
1	35	1.8	16.9	335
1	50	1.8	17.9	389
1	70	1.8	19.4	475

芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV62/YJLHV22
1	95	1.8	21.0	580
1	120	1.8	22.4	672
1	150	1.8	23.8	772
1	185	1.8	25.6	907
1	240	1.8	27.8	1105
1	300	1.9	30.0	1315
1	400	2.0	32.7	1604
1	500	2.2	39.7	2515
2	10	1.8	21.8	478
2	16	1.8	23.8	569
2	25	1.8	25.8	671
2	35	1.8	27.8	781
2	50	1.9	30.2	924
2	70	2.0	33.4	1148
2	95	2.2	39.3	1830
2	120	2.3	42.2	2109
2	150	2.4	45.8	2408
2	185	2.5	49.4	2800
2	240	2.7	54.8	3421
2	300	2.8	58.9	3984
2	400	3.0	64.3	4783
2	500	3.2	73.7	6056
3	10	1.8	23.1	554
3	16	1.8	25.3	668
3	25	1.8	27.4	797
3	35	1.9	29.8	950
3	50	2.0	32.3	1133
3	70	2.2	38.0	1814
3	95	2.3	41.9	2217
3	120	2.4	45.1	2573
3	150	2.5	48.9	2955
3	185	2.6	53.4	3502
3	240	2.8	58.5	4254
3	300	2.9	63.0	4990
3	400	3.2	68.9	6063
3	500	3.4	76.85	79.0
4	10	1.8	25.2	655

芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV62/YJLHV22
4	16	1.8	27.6	798
4	25	1.9	30.2	972
4	35	2.0	32.8	1164
4	50	2.2	37.9	1784
4	70	2.3	41.8	2193
4	95	2.4	46.7	2699
4	120	2.5	50.2	3145
4	150	2.7	54.6	3690
4	185	2.8	58.9	4333
4	240	3.0	64.5	5285
4	300	3.2	69.7	6251
4	400	3.4	76.2	7586
4	500	3.7	88.8	10503
5	10	1.8	27.4	765
5	16	1.9	30.3	951
5	25	2.0	33.2	1162
5	35	2.2	38.4	1790
5	50	2.3	41.5	2104
5	70	2.4	46.3	2601
5	95	2.6	51.9	3276
5	120	2.7	55.9	3824
5	150	2.9	60.0	4438
5	185	3.0	64.8	5222
5	240	3.2	71.1	6387
5	300	3.4	76.8	7569
5	400	3.7	85.3	10040
5	500	4.0	98.1	12708
3+1	16/10	1.8	27.0	762
3+1	25/16	1.9	29.6	931
3+1	35/16	2.0	31.6	1076
3+1	50/25	2.1	34.4	1292
3+1	70/35	2.2	40.0	2014
3+1	95/50	2.4	44.7	2473
3+1	120/70	2.5	48.3	2912
3+1	150/70	2.6	51.7	3313
3+1	185/95	2.7	56.0	3921
3+1	240/120	2.9	61.2	4749

芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
				YJLHV62/YJLHV22
3+1	300/150	3.0	65.8	5570
4+1	16/10	1.9	29.8	915
4+1	25/16	2.0	32.7	1122
4+1	35/16	2.1	35.0	1309
4+1	50/25	2.2	40.2	1976
4+1	70/35	2.4	44.9	2442
4+1	95/50	2.5	49.4	2995
4+1	120/70	2.7	54.2	3594
4+1	150/70	2.8	57.4	4064
4+1	150/95	2.8	58.3	4191
4+1	185/95	2.9	62.2	4816
4+1	240/120	3.1	68.0	5857
4+1	300/150	3.3	73.5	6921
3+2	16/10	1.9	29.2	880
3+2	25/16	2.0	32.1	1082
3+2	35/16	2.0	33.7	1211
3+2	50/25	2.2	39.1	1865
3+2	70/35	2.3	42.8	2267
3+2	95/50	2.5	47.7	2777
3+2	120/70	2.6	52.3	3345
3+2	150/70	2.7	54.8	3698
3+2	185/95	2.8	59.5	4415
3+2	240/120	3.0	65.0	5335
3+2	300/150	3.2	70.1	6284

载流量(包含修正系数): Current carrying capacity (including correction factor)

铝合金芯电力电缆载流量 (A) Aluminum alloy core power cable Carrying capacity (A)

标称截面 nominal cross section mm ²	非铠型电缆 non-armored						钢带铠装型电缆 Steel tape armoured cable					
	单芯 single core		二芯 2 cores		三-五芯 3-5 cores		单芯 single core		二芯 2 cores		三-五芯 3-5 cores	
	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil
10	55	85	70	78	58	65	51	76	54	84	45	70
16	80	110	88	102	73	85	74	92	78	102	65	85
25	105	145	112	126	93	105	97	113	102	126	85	105
35	130	175	132	150	110	125	125	135	132	150	110	125
50	155	210	162	180	135	150	148	162	156	180	130	150
70	195	260	204	222	170	185	188	200	198	222	165	185
95	235	315	246	270	205	225	228	238	240	264	200	220
120	275	360	282	306	235	255	268	275	282	306	235	255
150	315	410	324	342	270	285	302	308	318	342	265	285
185	360	465	372	390	310	325	348	351	366	390	305	325
240	430	540	438	456	365	380	405	405	426	450	355	375
300	495	615	504	510	420	425	467	459	492	510	410	425
400	585	705	594	588	495	490	542	524	570	582	475	485
500	685	810	702	690	585	575	627	605	660	672	550	560
630	800	920	834	822	695	685	730	702	768	780	640	650

注 note: 空气中环境温度 40℃; 土壤中环境温度 25℃、热阻系数 1.0、埋地深度 700mm air temperature 40℃; soil temperature 25℃, thermal resistance coefficient 1.0, and the buried depth is 700mm

环境温度不同时的载流量修正系数表 Table of correction coefficient of carrying current at different ambient temperature

导体工作温度 Conductor operating temperature ℃	空气中环境温度℃ Ambient temperature in the air							
	20	25	30	35	40	45	50	55
90	1.23	1.17	1.12	1.06	1.00	0.94	0.87	0.81

导体工作温度 Conductor operating temperature ℃	土壤中环境温度℃ Ambient temperature in soil							
	10	15	20	25	30	35	40	
90	1.11	1.07	1.04	1.00	0.96	0.92	0.88	

不同土壤热阻系数的载流量修正系数 Current-carrying correction coefficients of different soil thermal resistance coefficients

热阻系数 thermal resistivity $\rho_w = (K \cdot m/W)$	1.0	1.2	1.5	2.0	2.5
校正系数 correction coefficient	1	0.93	0.85	0.75	0.67

电缆安装时的最小弯曲半径: Minimum bending radius during cable installation

项目 Item	单芯电缆 single core cable		三芯电缆 3 cores cable	
	无铠装 non-armored	有铠装 armoring	无铠装 non-armored	有铠装 armoring
安装时的电缆最小弯曲半径 Minimum bending radius of the cable during installation	20D	15D	15D	12D
靠近连接盒和终端时 电缆最小弯曲半径 Minimum bending radius of the cable near the connecter and terminal	15D	12D	12D	10D
注 note: D 为电缆外径 D is the outer diameter of the cable				

电缆装卸、运输、敷设要求: Requirements during cable handling, transportation, laying

1、确认收货前应对电缆外观进行检查, 确认电缆本体、两端封帽无擦伤、撞伤、压伤等破损现象, 如有异常应及时联系我司, 否则视为交付产品的外观质量符合要求。Before accepting the goods, the appearance of the cable should be checked to ensure that the cable body and the sealing caps at both ends are free from any damage such as scratches, bumps, or crush. If any abnormality occurs, please contact us in time. Otherwise, the appearance quality of the delivered products shall be deemed to meet the requirement

2、电缆吊装、运输、敷设过程要妥善保护, 电缆本体及两端封帽要确保无破损, 防止雨水或其它有害气体、液体进入电缆内部, 导致电缆电性能受到影响。光电复合电缆两端预留长度的光缆单元不能被单独施加外力、不能发生大于 45° 的弯折, 防止光纤折断, 难以接续。Cable shall be properly protected while hoisting, transportation, and in laying process, the cable and caps at both ends have to remain in good condition to prevent rain or other harmful gases, liquids into the cable, to affect cable electrical performance. The optical fiber power composite cable units with the reserved length at both ends cannot be applied by external forces alone or bend more than 45 degrees to prevent the optical fiber from being broken and difficult to connect.

3、电缆长时间存放处应干燥, 避免长时间暴露于露天或潮湿地方, 低烟无卤阻燃电缆(WDZ)、柔性防火电缆等产品不得长期处于露天环境下, 以免因长期暴晒导致电缆护套颜色变化及护套机械性能收到影响。Cable should be stored in dry place, avoid long-term exposure to open air or humid places, low-smoke halogen-free flame retardant cable (WDZ), flexible fireproof cable should not be in open environment for a long time, so as to avoid cable sheath color fading and mechanical properties been affected.

4、电缆敷设前, 应核对电缆型号、规格、额定电压是否正确, 检验合格后方可允许敷设。Before laying the cable, model/type, specification and rated voltage of the cable should be check and confirmed.

5、安装敷设过程中, 如因天气原因暂停敷设, 电缆要放置于安全、干燥处, 防止受到外力撞击, 如电缆封帽已去掉, 电缆端头应做好保护措施, 防止湿气或雨水进入电缆内部。During the installation and laying, if suspended due to weather reasons, the cable should be placed in a safe and dry place to prevent external impact, if the cable cap has been removed, the cable end should take protective measures to prevent moisture or rain from entering the cable.

6、敷设时遇有中间接头、终端接头以及弯道处, 应根据实际情况适当留有余量, 以作为如后期电缆发生故障后备用。During laying, when comes to joints, couplings, ends or bended area, some cables should be reserved in case of maintenance in the future

7、电缆敷设过程中，为了防止弯曲过度而损坏，电缆的弯曲半径应符合国标 GB/T31840-2015 标准规定规定：In the process of cable laying, in order to prevent excessive bending and damage, the bending radius of the cable should comply with the National Standard GB/T31840-2015

8、按国家标准要求，电缆敷设环境温度应不低于 0℃，寒冷季节敷设电缆时，敷设现场的温度低于 0℃时，应将电缆进行预先加热处理。敷设时间最好选择在环境温度较高时进行。According to the requirements of national standards, the ambient temperature of cable laying should not be lower than 0℃. When laying cables in cold season, when the temperature of the laying site is lower than 0℃, the cables should be pre-heated. It is recommend to laying in hot season

9、电缆施放时应按照电缆轴上箭头指示或图一所示电缆放线方向施放，切不可反方向滚动，以免因电缆松弛造成压线现象。The cable should be laid according to the direction of arrow shown on cable shaft or as shown in picture 1. Do not roll to the opposite direction to avoid compression caused by cable loosen.

10、电缆支架方式敷设时，支架设地点应选好，以敷设方便为准，一般应在电缆起止点附近为宜，应注意电缆轴的转动方向，电缆引出端应在轴的上方，见图二：When laying the cable support, the installation location should be selected, and the ease installation shall prevail. Generally, it should be near the starting and ending point of the cable. Attention should be paid to the rotation direction of the cable shaft, and the cable leading end should be above the shaft, as shown in picture 2:

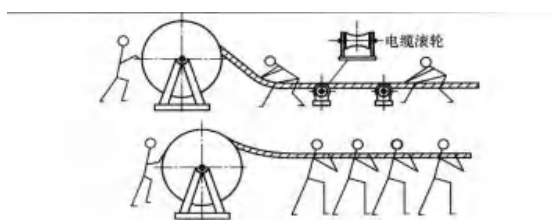


图 一 Figure 1

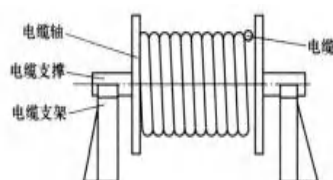


图 二 Figure 2

11、电缆可采用图一所示人力拉引或图三机械牵引方法敷设（符合国标 GB50618-2016）。The cable can be laid by manual pulling as shown in Figure 1 or mechanical pulling as shown in Figure 3 (in accordance with the national standard GB50618-2016).



图 三 Figure 3

三、额定电压 6-35kV 铝合金芯交联聚乙烯绝缘电力电缆 Rated voltage

6-35kV aluminum alloy core crosslinked PE insulated power cable

依据标准:according to the standard

GB / T 31840.2 额定电压 1kV ($U_m=1.2\text{kV}$) 到 35kV ($U_m=40.5\text{kV}$) 铝合金芯挤包绝缘电力电缆

第 2 部分: 额定电压 6kV ($U_m=7.2\text{kV}$) 和 30kV ($U_m=36\text{kV}$) 电缆 Aluminium alloy core extruded insulated power cables with rated voltages 1kV ($U_m=1.2\text{kV}$) to 35kV ($U_m=40.5\text{kV}$) - Part 2: Cables with rated voltages of 6kV ($U_m=7.2\text{kV}$) and 30kV ($U_m=36\text{kV}$)

GB / T 31840.3 额定电压 1kV ($U_m=1.2\text{kV}$) 到 35kV ($U_m=40.5\text{kV}$) 铝合金芯挤包绝缘电力电缆

第 3 部分: 额定电压 35kV ($U_m=40.5\text{kV}$) 电缆 Aluminium alloy core extruded insulated power cables with rated voltage 1kV ($U_m=1.2\text{kV}$) to 35kV ($U_m=40.5\text{kV}$) - Part 3: Cables with rated voltage 35kV ($U_m=40.5\text{kV}$)

适用范围: range of application

本产品适用于额定电压 6-35kV 电力输配电, 交联聚乙烯电力电缆具有优良的电性能, 良好的耐热性能, 且具有重量轻、结构简单、使用方面, 耐化学腐蚀和敷设不受落差限制等优点。This product is suitable for rated voltage 6-35kV power transmission and distribution, crosslinked polyethylene power cable has excellent electrical performance, good heat resistance, and has the advantages of light weight, simple structure, chemical corrosion resistance and laying is not limited by the elevation drop.

使用特性: operating characteristic

额定电压 U_0/U 为 3.6/6kV、6/6kV、6/10kV、8.7/15kV、12/20kV、18/20kV、18/30kV、26/35kV
Rated voltage U_0/U : 3.6/6kV, 6/6kV, 6/10kV, 8.7/15kV, 12/20kV, 18/20kV, 18/30kV, 26/35kV
最高系统电压 U_m 为 7.2kV、7.2kV、12kV、17.5kV、24kV、24kV、36kV、42kV

Maximum system voltage U_m : 7.2kV, 7.2kV, 12kV, 17.5kV, 24kV, 24kV, 36kV, 42kV

电缆导体的最高允许工作温度为 90℃

Maximum allowable operating temperature of the conductor is 90℃

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℃ The maximum short-circuit temperature of the conductor shall not exceed 250℃ (5s maximum duration)

电缆敷设时环境温度应不低于 0℃ The ambient temperature should not be lower than 0 °C when the cable is laid

型号规格: type and specification

型号 Type	芯数 Nos. of cores	名称 Name
YJLHV	1、3	铝合金芯交联聚乙烯绝缘聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated PVC sheathed power cable
YJLHY	1、3	铝合金芯交联聚乙烯绝缘聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulation polyethylene sheathed power cable
YJLHV62	1	铝合金芯交联聚乙烯绝缘非磁性金属带铠装聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated non-magnetic metal tape armoured polyvinyl chloride sheathed power cable
YJLHY63	1	铝合金芯交联聚乙烯绝缘非磁性金属带铠装聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated non-magnetic metal tape armoured polyethylene sheathed power cable
YJLHV22	3	铝合金芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated steel tape armoured PVC sheathed power cable
YJLHY23	3	铝合金芯交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆 Aluminum alloy core crosslinked polyethylene insulated steel tape armoured polyethylene sheathed power cable
注 Note: 金属屏蔽层也可采用铝合金带屏蔽, 型号中需添加“HL”表示 The metal shielding layer can also be aluminum alloy tape, and “HL” should be added to indicate the model		

备注: Note

可根据用户需求, 生产各类阻燃、低烟无卤、耐火及耐寒电力电缆; all kinds of flame-retardant, low-smoke halogen-free, fire-resistant and cold-resistant power cables are available according to requirements.

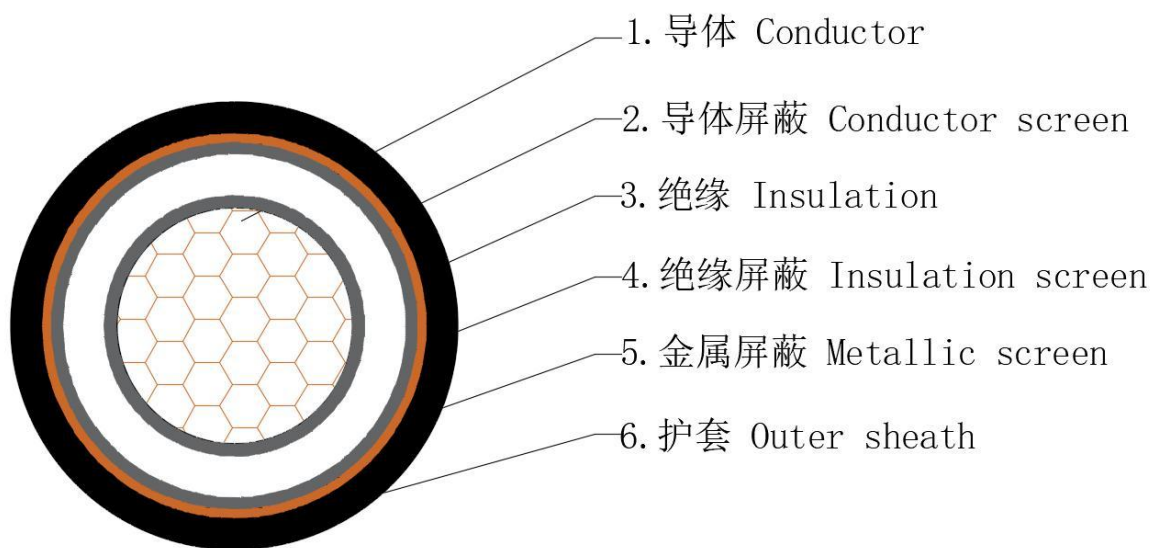
阻燃电缆可在型号中加阻燃特性符号, 如 Z, ZC, ZB, ZA; Flame retardant cable model has characteristic symbol, such as Z, ZC, ZB, ZA;

低烟无卤可在型号中加无卤低烟特性符号, 如 WD; Low-smoke halogen-free model has characteristic symbol, such as WD;

耐寒电缆可在型号中加耐寒特性符号, 如 HD。Cold resistance cable model has characteristic symbol, such as HD.

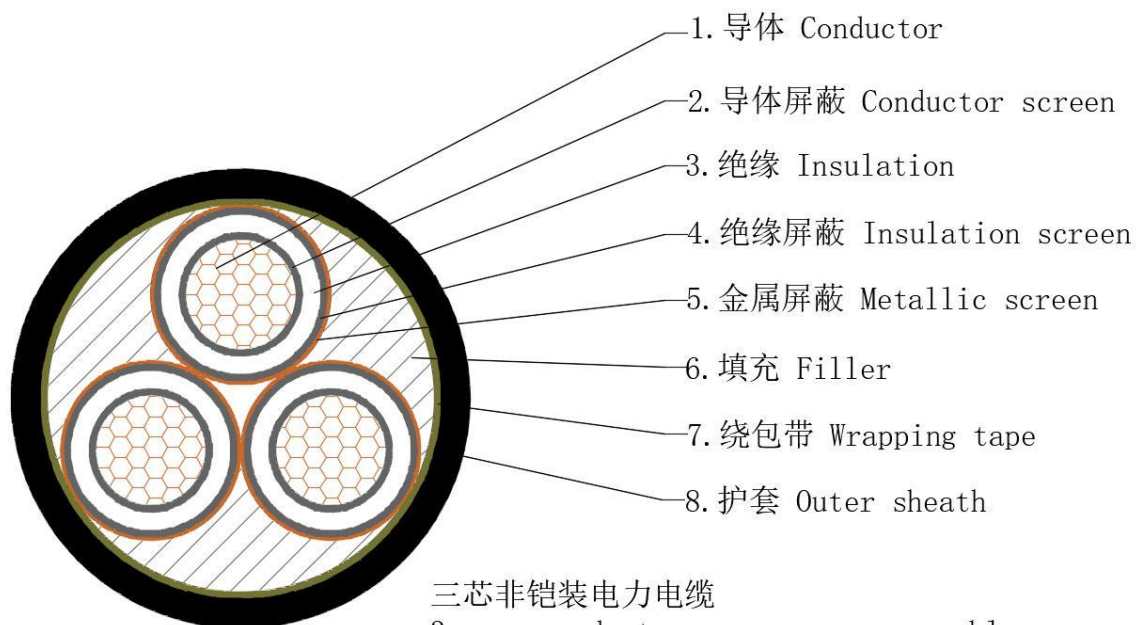
耐火电缆可在型号中加耐火特性符号, 如 N。Fire resistant cable model has characteristic symbol, such as N.

结构示意图: structural illustraion



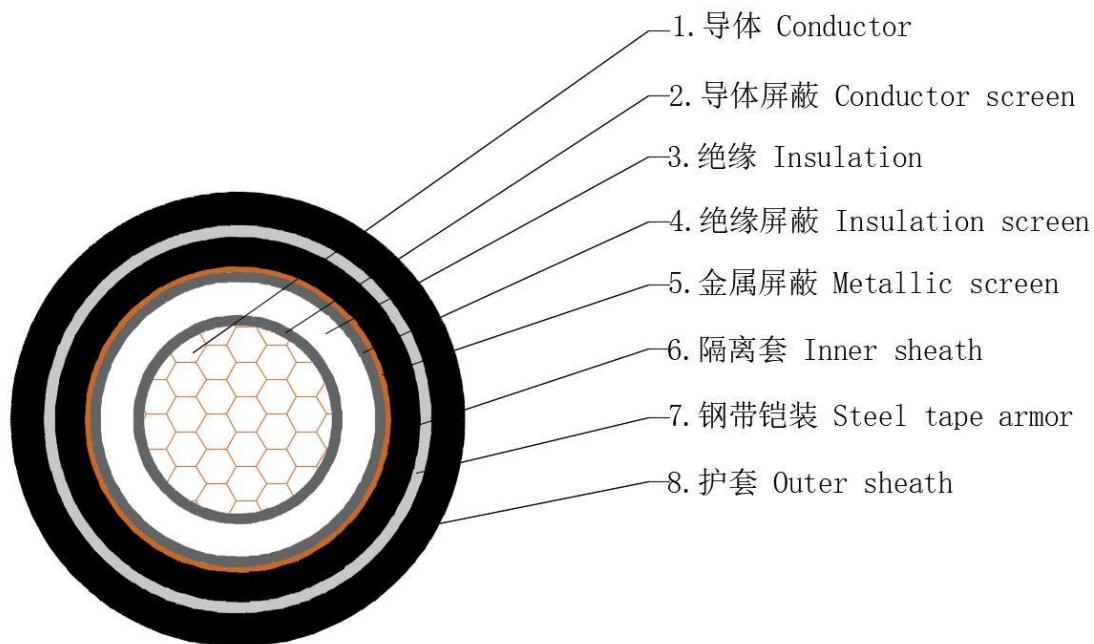
单芯非铠装电力电缆

1-core conductor no armor power cable

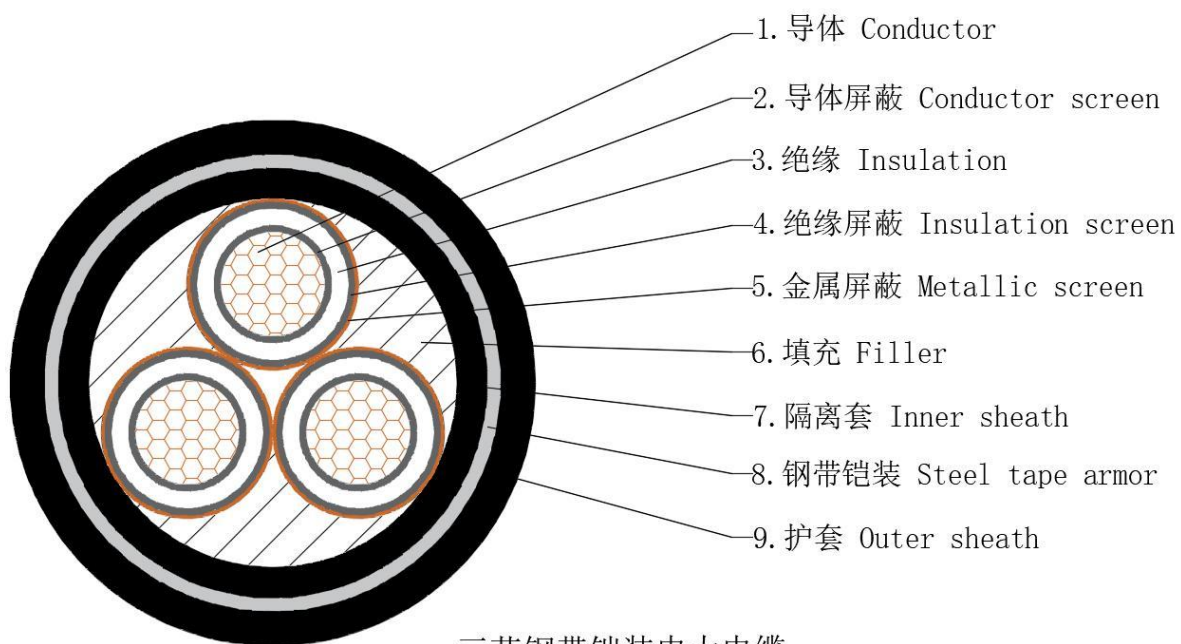


三芯非铠装电力电缆

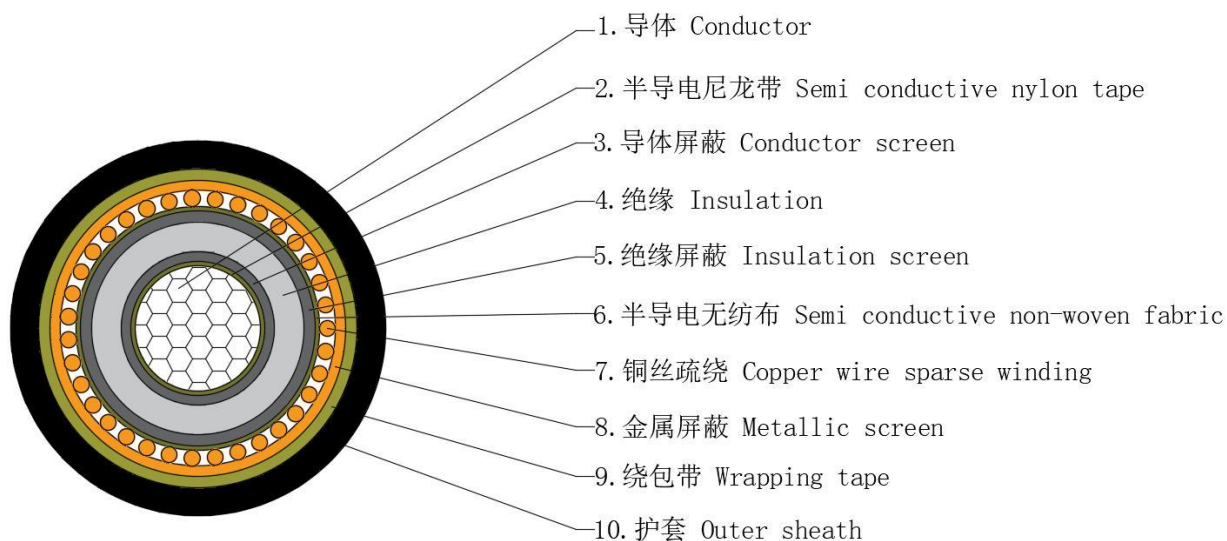
3-core conductor no armor power cable



单芯钢带铠装电力电缆
1-core conductor steel tape armor power cable

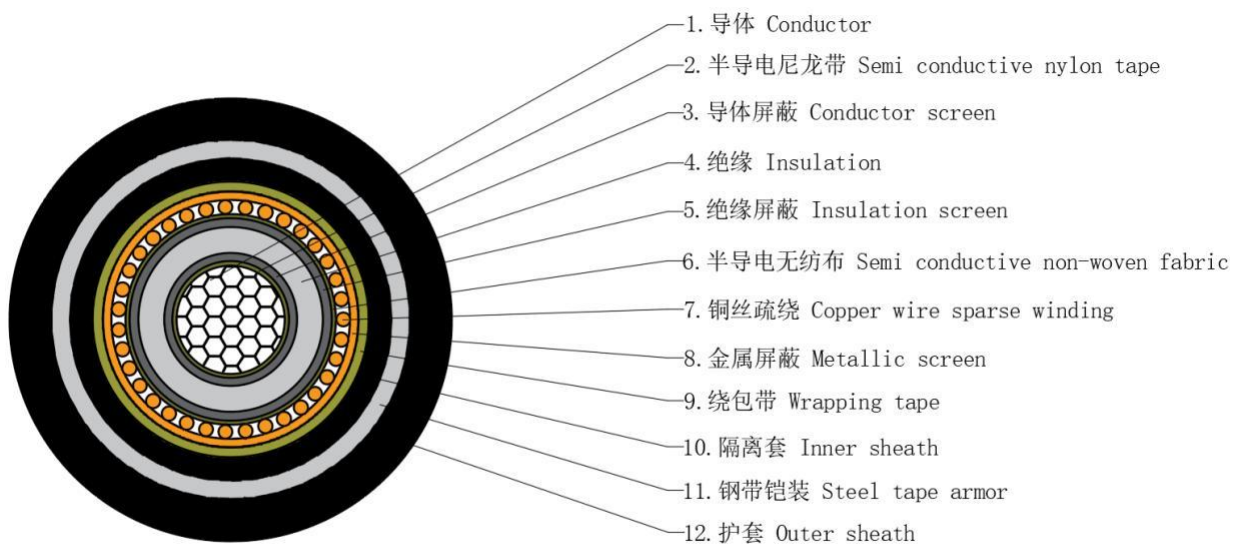


三芯钢带铠装电力电缆
3-core conductor steel tape armor power cable



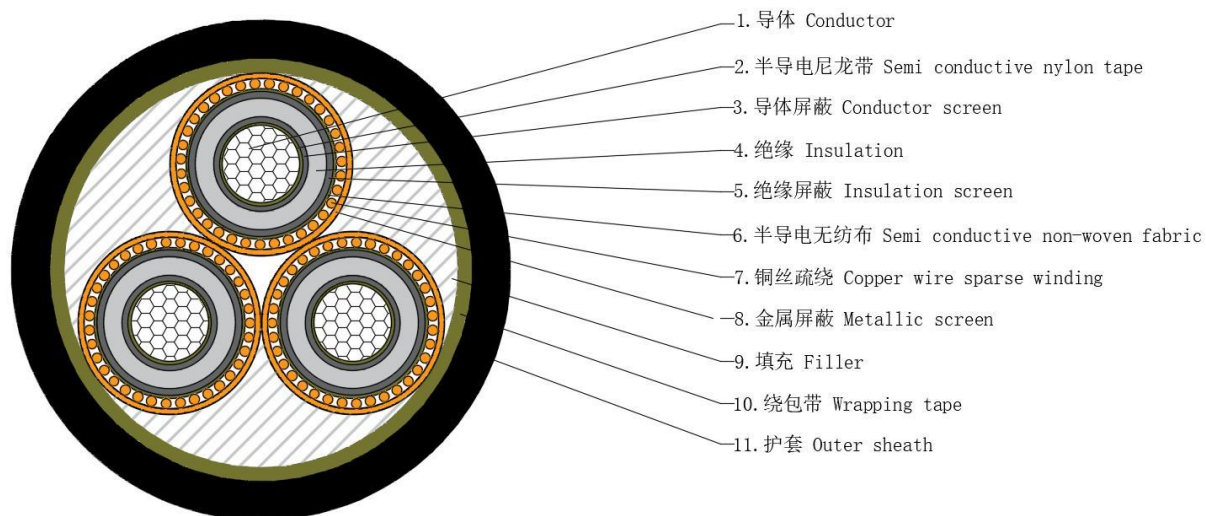
单芯非铠装电力电缆

1-core conductor no armor power cable

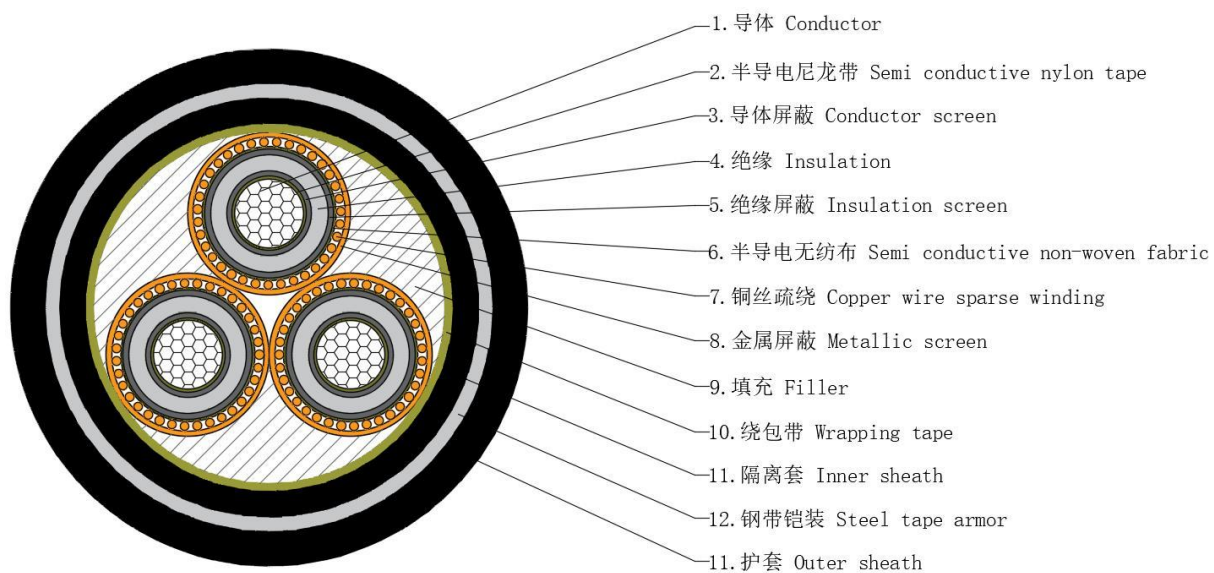


单芯钢带铠装电力电缆

1-core conductor steel tape armor power cable



三芯非铠装电力电缆
3-core conductor no armor power cable



三芯钢带铠装电力电缆
3-core conductor steel tape armor power cable

导体最大直流/交流电阻: Conductor maximum DC/AC resistance:

导体标称截面 Nominal cross section of conductor mm ²	20℃最大直流电阻 20℃ maximum DC resistance Ω/km	90℃最大交流电阻 90℃ maximum AC resistance Ω/km
	铝合金 aluminium alloy	铝合金 aluminium alloy
10	3.08	3.9487
16	1.91	2.4487
25	1.2	1.5385
35	0.868	1.1130
50	0.641	0.8220
70	0.443	0.5681
95	0.32	0.4105
120	0.253	0.3247
150	0.206	0.2645
185	0.164	0.2108
240	0.125	0.1609
300	0.1	0.1290
400	0.0778	0.1010
500	0.0605	0.0789
630	0.0469	0.0619

绝缘标称厚度: Nominal insulation thickness:

标称截面 Nominal cross section of conductor mm ²	电压等级 voltage classes						
	3.6/6kV	6/6kV 6/10kV	8.7/10kV 8.7/15kV	12/20kV	18/20kV 18/30kV	21/35kV	26/35kV
10	2.5	—	—	—	—	—	—
16	2.5	3.4	—	—	—	—	—
25	2.5	3.4	4.5	—	—	—	—
35	2.5	3.4	4.5	5.5	—	—	—
50	2.5	3.4	4.5	5.5	8.0	9.3	10.5
70	2.5	3.4	4.5	5.5	8.0	9.3	10.5
95	2.5	3.4	4.5	5.5	8.0	9.3	10.5
120	2.5	3.4	4.5	5.5	8.0	9.3	10.5
150	2.5	3.4	4.5	5.5	8.0	9.3	10.5
185	2.5	3.4	4.5	5.5	8.0	9.3	10.5
240	2.6	3.4	4.5	5.5	8.0	9.3	10.5
300	2.8	3.4	4.5	5.5	8.0	9.3	10.5
400	3.0	3.4	4.5	5.5	8.0	9.3	10.5
500	3.2	3.4	4.5	5.5	8.0	9.3	10.5
630	3.2	3.4	4.5	5.5	8.0	9.3	10.5

耐压试验、局放试验：Withstand pressure test, local discharge test:

试验项目 test item	额定电压 rated voltage /kV						
	3.6/6	6/6、6/10	8.7/10、 8.7/15	12/20	18/30	21/35	26/35
工频交流电压试验 Power frequency AC voltage test kV/5min	12.5	21	30.5	42	63	73.5	91
四小时工频交流电压试验 Four hours frequency AC voltage test kV	/	24	35	48	72	84	104
局部放电试验 partial discharge test pc	≤5	≤5	≤5	≤5	≤5	≤5	≤5
U ₀ /kV	额定电压 rated voltage /kV						
		6	10	15	20	30	35
冲击电压试验 impulse voltage test kV		60	75	95	125	170	200

产品结构尺寸（仅供参考）：Product structure size (for reference only)

导体外径：Outer diameter of conductor:

标称截面 nominal cross section mm ²	1.5	2.5	4	6	10	16	25	35	50
铝合金导体 近似外径 Aluminium alloy conductor Approximate outside diameter mm	/	/	/	/	3.9	4.8	6.0	6.9	8.1
标称截面 nominal cross section mm ²	70	95	120	150	185	240	300	400	500
铝合金导体 近似外径 Aluminium alloy conductor Approximate outside diameter mm	9.7	11.4	12.1	13.3	15.0	17.2	19.2	21.8	26.4

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV
3.6/6	1	25	1.5	17.2	323
3.6/6	1	35	1.5	18.2	369
3.6/6	1	50	1.6	19.4	431
3.6/6	1	70	1.6	20.9	527
3.6/6	1	95	1.7	22.8	636
3.6/6	1	120	1.7	24.2	737
3.6/6	1	150	1.8	25.8	844
3.6/6	1	185	1.8	27.5	983
3.6/6	1	240	1.9	30.1	1214
3.6/6	1	300	2.0	32.6	1456
3.6/6	1	400	2.1	35.7	1784
3.6/6	1	500	2.2	40.5	2191
3.6/6	3	25	2.1	34.3	1124
3.6/6	3	35	2.1	36.5	1284
3.6/6	3	50	2.2	39.0	1488
3.6/6	3	70	2.4	42.6	1807
3.6/6	3	95	2.5	46.5	2171
3.6/6	3	120	2.6	49.7	2524
3.6/6	3	150	2.7	52.9	2916
3.6/6	3	185	2.8	56.7	3407
3.6/6	3	240	3.0	62.3	4160
3.6/6	3	300	3.2	67.8	4941
3.6/6	3	400	3.4	74.3	6137
3.6/6	3	500	3.7	84.8	7478
6/6、6/10	1	25	1.6	19.0	380
6/6、6/10	1	35	1.6	20.0	430
6/6、6/10	1	50	1.7	21.1	494
6/6、6/10	1	70	1.7	22.8	596
6/6、6/10	1	95	1.8	24.5	710
6/6、6/10	1	120	1.8	26.1	815
6/6、6/10	1	150	1.9	27.5	927
6/6、6/10	1	185	1.9	29.4	1070
6/6、6/10	1	240	2.0	31.8	1299
6/6、6/10	1	300	2.1	33.8	1524
6/6、6/10	1	400	2.2	36.6	1833
6/6、6/10	1	500	2.3	40.8	2217

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV
6/6、6/10	3	25	2.2	38.2	1304
6/6、6/10	3	35	2.3	40.5	1472
6/6、6/10	3	50	2.4	43.1	1688
6/6、6/10	3	70	2.5	46.5	2024
6/6、6/10	3	95	2.6	50.3	2404
6/6、6/10	3	120	2.7	53.5	2770
6/6、6/10	3	150	2.8	56.8	3176
6/6、6/10	3	185	2.9	60.6	3683
6/6、6/10	3	240	3.1	65.7	4429
6/6、6/10	3	300	3.3	70.4	5158
6/6、6/10	3	400	3.5	76.2	6295
6/6、6/10	3	500	3.7	85.6	7900
8.7/10、8.7/15	1	25	1.6	21.2	495
8.7/10、8.7/15	1	35	1.7	22.4	541
8.7/10、8.7/15	1	50	1.7	23.5	603
8.7/10、8.7/15	1	70	1.8	25.2	706
8.7/10、8.7/15	1	95	1.8	26.9	824
8.7/10、8.7/15	1	120	1.9	28.4	943
8.7/10、8.7/15	1	150	1.9	29.8	1060
8.7/10、8.7/15	1	185	2.0	31.7	1219
8.7/10、8.7/15	1	240	2.1	34.1	1458
8.7/10、8.7/15	1	300	2.1	36.1	1686
8.7/10、8.7/15	1	400	2.2	38.8	2002
8.7/10、8.7/15	1	500	2.3	43.3	2440
8.7/10、8.7/15	1	630	2.4	47.4	2942
8.7/10、8.7/15	3	25	2.4	43.0	1595
8.7/10、8.7/15	3	35	2.5	45.4	1796
8.7/10、8.7/15	3	50	2.6	47.9	2040
8.7/10、8.7/15	3	70	2.7	51.4	2403
8.7/10、8.7/15	3	95	2.8	55.2	2822
8.7/10、8.7/15	3	120	2.9	58.4	3208
8.7/10、8.7/15	3	150	3.0	61.6	3663
8.7/10、8.7/15	3	185	3.1	65.5	4176
8.7/10、8.7/15	3	240	3.3	70.6	4955
8.7/10、8.7/15	3	300	3.4	75.1	5800
8.7/10、8.7/15	3	400	3.7	81.0	6927
8.7/10、8.7/15	3	500	3.8	90.3	8529

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV
8.7/10、8.7/15	3	630	4.1	99.3	10459
12/20	1	35	1.7	24.3	610
12/20	1	50	1.8	25.6	684
12/20	1	70	1.8	27.1	800
12/20	1	95	1.9	28.9	926
12/20	1	120	2.0	30.3	1042
12/20	1	150	2.0	32.8	1165
12/20	1	185	2.1	34.5	1321
12/20	1	240	2.1	36.9	1569
12/20	1	300	2.2	39.1	1811
12/20	1	400	2.3	41.8	2142
12/20	1	500	2.4	46.1	2550
12/20	3	35	2.6	49.7	2053
12/20	3	50	2.7	52.2	2253
12/20	3	70	2.8	55.6	2694
12/20	3	95	2.9	59.5	3126
12/20	3	120	3.0	62.7	3548
12/20	3	150	3.1	65.9	3993
12/20	3	185	3.3	69.9	4516
12/20	3	240	3.4	74.9	5316
12/20	3	300	3.6	79.6	6244
12/20	3	400	3.8	85.3	7355
12/20	3	500	4.0	94.8	8835
18/20、18/30	1	50	2.0	30.7	925
18/20、18/30	1	70	2.0	32.2	1056
18/20、18/30	1	95	2.1	34.0	1197
18/20、18/30	1	120	2.1	35.4	1323
18/20、18/30	1	150	2.2	37.0	1457
18/20、18/30	1	185	2.2	38.7	1628
18/20、18/30	1	240	2.3	41.1	1895
18/20、18/30	1	300	2.4	43.3	2156
18/20、18/30	1	400	2.5	46.0	2510
18/20、18/30	1	500	2.6	50.3	2944
18/20、18/30	3	50	3.1	63.2	3070
18/20、18/30	3	70	3.2	66.6	3508
18/20、18/30	3	95	3.3	70.5	3987

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV
18/20、18/30	3	120	3.4	73.7	4444
18/20、18/30	3	150	3.5	76.9	4928
18/20、18/30	3	185	3.6	80.7	5497
18/20、18/30	3	240	3.8	85.9	6363
18/20、18/30	3	300	4.0	90.4	7350
18/20、18/30	3	400	4.2	96.3	8536
18/20、18/30	3	500	4.4	105.8	10103
21/35	1	50	2.1	33.3	1080
21/35	1	70	2.1	34.8	1220
21/35	1	95	2.2	36.7	1368
21/35	1	120	2.2	38.1	1501
21/35	1	150	2.3	39.7	1642
21/35	1	185	2.3	41.4	1820
21/35	1	240	2.4	43.8	2099
21/35	1	300	2.5	45.9	2370
21/35	1	400	2.6	48.6	2737
21/35	1	500	2.7	55.2	3537
21/35	1	630	2.8	59.2	4103
21/35	3	50	3.3	68.9	3918
21/35	3	70	3.4	72.3	4459
21/35	3	95	3.5	76.2	5015
21/35	3	120	3.6	79.4	5523
21/35	3	150	3.7	82.6	6041
21/35	3	185	3.8	86.4	6690
21/35	3	240	4.0	91.5	7653
21/35	3	300	4.2	96.0	8623
21/35	3	400	4.4	102.0	9898
21/35	3	500	4.6	116.2	12866
21/35	3	630	4.9	125.0	14960
26/35	1	50	2.1	35.6	1222
26/35	1	70	2.2	37.3	1368
26/35	1	95	2.3	39.0	1523
26/35	1	120	2.3	40.6	1661
26/35	1	150	2.4	42.0	1808
26/35	1	185	2.4	43.8	1993
26/35	1	240	2.5	46.2	2281
26/35	1	300	2.6	48.2	2561

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV
26/35	1	400	2.7	51.1	2939
26/35	1	500	2.7	57.6	3733
26/35	1	630	2.8	61.7	4312
26/35	3	50	3.5	74.2	4369
26/35	3	70	3.6	77.6	4933
26/35	3	95	3.7	81.5	5512
26/35	3	120	3.8	84.7	6037
26/35	3	150	3.9	87.9	6573
26/35	3	185	4.0	91.7	7244
26/35	3	240	4.2	96.8	8239
26/35	3	300	4.3	101.3	9237
26/35	3	400	4.6	107.3	10548
26/35	3	500	4.8	121.5	13754
26/35	3	630	5.1	130.5	15966

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV62/YJLHV22
3.6/6	1	25	1.8	20.7	540
3.6/6	1	35	1.8	21.7	584
3.6/6	1	50	1.8	22.8	659
3.6/6	1	70	1.8	24.3	777
3.6/6	1	95	1.8	26.0	905
3.6/6	1	120	1.8	27.4	1022
3.6/6	1	150	1.9	28.9	1146
3.6/6	1	185	1.9	30.6	1304
3.6/6	1	240	2.0	33.2	1555
3.6/6	1	300	2.2	37.1	2179
3.6/6	1	400	2.3	40.2	2589
3.6/6	1	500	2.4	45.2	3089
3.6/6	3	25	2.2	38.6	1881
3.6/6	3	35	2.3	41.2	2093
3.6/6	3	50	2.4	43.7	2363
3.6/6	3	70	2.5	47.3	2782

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV62/YJLHV22
3.6/6	3	95	2.6	51.2	3246
3.6/6	3	120	2.8	54.7	3680
3.6/6	3	150	2.8	58.1	4159
3.6/6	3	185	3.0	62.0	4754
3.6/6	3	240	3.2	67.7	5671
3.6/6	3	300	3.3	73.4	6622
3.6/6	3	400	3.6	81.7	8835
3.6/6	3	500	3.8	92.1	10505
6/6、6/10	1	25	1.8	22.4	614
6/6、6/10	1	35	1.8	23.4	664
6/6、6/10	1	50	1.8	24.5	742
6/6、6/10	1	70	1.8	26.0	866
6/6、6/10	1	95	1.9	27.8	999
6/6、6/10	1	120	1.9	29.2	1120
6/6、6/10	1	150	2.0	30.8	1248
6/6、6/10	1	185	2.0	32.5	1411
6/6、6/10	1	240	2.1	36.1	1995
6/6、6/10	1	300	2.2	38.3	2277
6/6、6/10	1	400	2.3	41.1	2658
6/6、6/10	1	500	2.4	45.5	3124
6/6、6/10	3	25	2.4	42.9	2158
6/6、6/10	3	35	2.5	45.0	2380
6/6、6/10	3	50	2.6	48.0	2662
6/6、6/10	3	70	2.7	51.6	3101
6/6、6/10	3	95	2.8	55.4	3584
6/6、6/10	3	120	2.9	58.8	4033
6/6、6/10	3	150	3.0	62.0	4527
6/6、6/10	3	185	3.1	66.0	5141
6/6、6/10	3	240	3.3	71.3	6042
6/6、6/10	3	300	3.5	76.2	6918
6/6、6/10	3	400	3.8	83.3	9065
6/6、6/10	3	500	4.0	93.0	11099
8.7/10、8.7/15	1	35	1.8	25.5	869
8.7/10、8.7/15	1	50	1.8	26.6	947
8.7/10、8.7/15	1	70	1.9	28.3	1087
8.7/10、8.7/15	1	95	1.9	30.0	1230
8.7/10、8.7/15	1	120	2.0	31.6	1372

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV62/YJLHV22
8.7/10、8.7/15	1	150	2.0	33.0	1510
8.7/10、8.7/15	1	185	2.1	36.1	2026
8.7/10、8.7/15	1	240	2.2	38.4	2327
8.7/10、8.7/15	1	300	2.3	40.6	2627
8.7/10、8.7/15	1	400	2.4	43.5	3039
8.7/10、8.7/15	1	500	2.5	48.2	3607
8.7/10、8.7/15	1	630	2.6	52.2	4208
8.7/10、8.7/15	3	25	2.6	47.1	2727
8.7/10、8.7/15	3	35	2.6	49.5	2987
8.7/10、8.7/15	3	50	2.7	52.2	3331
8.7/10、8.7/15	3	70	2.9	56.0	3833
8.7/10、8.7/15	3	95	3.0	60.8	4380
8.7/10、8.7/15	3	120	3.1	63.2	4896
8.7/10、8.7/15	3	150	3.2	66.6	5440
8.7/10、8.7/15	3	185	3.3	70.5	6109
8.7/10、8.7/15	3	240	3.5	75.8	7096
8.7/10、8.7/15	3	300	3.7	81.8	8958
8.7/10、8.7/15	3	400	3.9	87.8	10342
8.7/10、8.7/15	3	500	4.1	97.4	11928
8.7/10、8.7/15	3	630	4.4	106.7	14281
12/20	1	35	1.9	27.6	963
12/20	1	50	1.9	28.7	1045
12/20	1	70	2.0	30.4	1184
12/20	1	95	2.0	32.1	1336
12/20	1	120	2.1	33.7	1480
12/20	1	150	2.2	37.2	1952
12/20	1	185	2.2	39.0	2166
12/20	1	240	2.3	41.4	2462
12/20	1	300	2.4	43.8	2776
12/20	1	400	2.5	46.5	3171
12/20	1	500	2.6	51.0	3755
12/20	3	35	2.8	54.7	3222
12/20	3	50	2.9	57.5	3544
12/20	3	70	3.0	60.9	4042
12/20	3	95	3.1	64.9	4583
12/20	3	120	3.3	68.3	5091
12/20	3	150	3.4	71.5	5629

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV62/YJLHV22
12/20	3	185	3.5	75.7	6264
12/20	3	240	3.7	82.2	8031
12/20	3	300	3.9	86.9	9141
12/20	3	400	4.1	93.0	10542
12/20	3	500	4.3	102.7	12327
18/20、18/30	1	50	2.1	33.8	1603
18/20、18/30	1	70	2.2	36.7	1774
18/20、18/30	1	95	2.2	38.4	1952
18/20、18/30	1	120	2.3	40.0	2107
18/20、18/30	1	150	2.3	41.5	2273
18/20、18/30	1	185	2.4	43.4	2480
18/20、18/30	1	240	2.5	45.8	2833
18/20、18/30	1	300	2.5	48.0	3153
18/20、18/30	1	400	2.7	50.7	3583
18/20、18/30	1	500	2.8	55.2	4105
18/20、18/30	3	50	3.3	68.8	4619
18/20、18/30	3	70	3.4	72.2	5171
18/20、18/30	3	95	3.5	76.3	6520
18/20、18/30	3	120	3.7	81.0	7080
18/20、18/30	3	150	3.8	84.2	7715
18/20、18/30	3	185	3.9	88.3	8442
18/20、18/30	3	240	4.1	93.6	9536
18/20、18/30	3	300	4.2	98.2	10736
18/20、18/30	3	400	4.5	104.4	12202
18/20、18/30	3	500	4.7	114.0	14083
21/35	1	50	2.2	37.7	1818
21/35	1	70	2.3	39.3	1997
21/35	1	95	2.3	41.2	2183
21/35	1	120	2.4	42.8	2344
21/35	1	150	2.4	44.2	2516
21/35	1	185	2.5	46.3	2732
21/35	1	240	2.6	48.6	3110
21/35	1	300	2.6	50.6	3441
21/35	1	400	2.8	53.5	3886
21/35	1	500	2.9	60.4	4822
21/35	1	630	3.0	64.5	5490
21/35	3	50	3.5	74.7	5646

电压等级 voltage classes kV	芯数 Nos. of cores	标称截面 nominal cross section mm ²	护套标称厚度 Nominal thickness of sheath mm	计算外径 Calculated outside diameter mm	电缆计算重量 Calculated weight of cable kg/km
					YJLHV62/YJLHV22
21/35	3	70	3.7	79.5	7083
21/35	3	95	3.8	83.5	7797
21/35	3	120	3.9	86.9	8431
21/35	3	150	4.0	90.3	9082
21/35	3	185	4.1	94.1	9893
21/35	3	240	4.3	99.4	11089
21/35	3	300	4.4	104.1	12299
21/35	3	400	4.7	110.2	13836
21/35	3	500	4.9	126.1	17571
21/35	3	630	5.2	135.2	20130
26/35	1	50	2.3	40.3	2009
26/35	1	70	2.4	42.0	2195
26/35	1	95	2.4	43.7	2388
26/35	1	120	2.5	45.3	2555
26/35	1	150	2.5	46.8	2732
26/35	1	185	2.6	48.7	2955
26/35	1	240	2.6	50.9	3356
26/35	1	300	2.7	53.3	3697
26/35	1	400	2.8	56.0	4154
26/35	1	500	3.0	62.9	5070
26/35	1	630	3.1	67.1	5752
26/35	3	50	3.7	81.3	7047
26/35	3	70	3.8	84.9	7774
26/35	3	95	4.0	89.0	8513
26/35	3	120	4.1	92.4	9166
26/35	3	150	4.2	95.7	9839
26/35	3	185	4.3	99.6	10675
26/35	3	240	4.5	104.9	11907
26/35	3	300	4.6	109.6	13150
26/35	3	400	4.9	115.7	14728
26/35	3	500	5.1	132.2	18957
26/35	3	630	5.4	141.2	21540

导体短路电流: Conductor short-circuit current

标称截面 nominal cross section mm ²	铝合金芯 aluminum alloy conductor I kA		
	t=1s	t=3s	t=5s
25	2.36	1.36	1.06
35	3.31	1.91	1.48
50	4.72	2.73	2.11
70	6.61	3.82	2.96
95	8.98	5.18	4.01
120	11.34	6.55	5.07
150	14.17	8.18	6.34
185	17.48	10.09	7.82
240	22.68	13.09	10.14
300	28.35	16.37	12.68
400	37.79	21.82	16.90
500	47.24	27.28	21.13
630	59.52	34.37	26.62

载流量(包含修正系数): Current carrying capacity (including correction factor)

铝合金芯电力电缆载流量 Aluminum alloy core power cable carrying capacity (A)

电缆型号 Type of cable	标称截面 nominal Cross section mm ²	非铠型电缆 non-armored cable				钢带铠装型电缆 Steel tape armoured type cable			
		单芯 single core		三芯 3 cores		单芯 single core		三芯 3 cores	
		空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil
YJLHV-3.6/6 kV YJLHV62-3.6/6 kV YJLHV22-3.6/6 kV	25	105	145	93	105	105	145	85	105
	35	130	175	110	125	130	175	110	125
	50	155	210	135	150	155	210	130	150
	70	195	260	170	185	195	260	165	185
	95	235	315	205	225	235	315	200	220
	120	275	360	235	255	275	360	235	255
	150	315	410	270	285	315	410	265	285
	185	360	465	310	325	360	465	305	325
	240	430	540	365	380	430	540	355	375
	300	495	615	420	425	495	615	410	425
	400	585	705	495	490	585	705	475	485
	500	685	810	585	575	685	810	550	560
	630	800	920	695	685	800	920	640	650
	800	930	1050	820	810	930	1050	760	765

电缆型号 Type of cable	标称截面 nominal Cross section mm ²	非铠型电缆 non-armored cable				钢带铠装型电缆 Steel tape armoured type cable			
		单芯 single core		三芯 3 cores		单芯 single core		三芯 3 cores	
		空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil
YJLHV-6/10 kV YJLHV62-6/10 kV YJLHV22-6/10 kV	25	110	145	95	105	110	145	85	105
	35	135	175	115	125	135	175	110	125
	50	160	210	135	150	160	210	130	150
	70	200	260	170	185	200	260	165	185
	95	245	315	205	220	245	315	200	220
	120	285	360	235	250	285	360	235	255
	150	320	405	270	280	320	405	265	285
	185	370	455	310	320	370	455	305	325
	240	440	535	370	375	440	535	355	375
	300	505	605	420	425	505	605	410	425
	400	590	705	485	485	590	705	475	485
	500	690	805	575	570	690	805	550	560
	630	800	920	675	670	800	920	640	650
	800	940	1050	805	795	940	1050	760	765

电缆型号 Type of cable	标称截面 nominal Cross section mm ²	非铠型电缆 non-armored cable				钢带铠装型电缆 Steel tape armoured type cable			
		单芯 single core		三芯 3 cores		单芯 single core		三芯 3 cores	
		空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil
YJLHV-8.7/15 kV YJLHV62-8.7/15 kV YJLHV22-8.7/15 kV	25	110	145	95	105	110	145	90	105
	35	135	175	115	125	135	175	115	125
	50	160	210	135	150	160	210	140	150
	70	200	260	170	185	200	260	170	185
	95	245	315	205	220	245	315	205	220
	120	285	360	235	250	285	360	240	250
	150	320	405	270	280	320	405	270	280
	185	370	455	310	320	370	455	310	320
	240	440	535	370	375	440	535	360	375
	300	505	605	420	425	505	605	420	425
	400	590	705	485	485	590	705	485	485
	500	690	805	575	570	690	805	565	570
	630	800	920	675	670	800	920	665	670
	800	940	1050	805	795	940	1050	795	795

电缆型号 Type of cable	标称截面 nominal Cross section mm ²	非铠型电缆 non-armored cable				钢带铠装型电缆 Steel tape armoured type cable			
		单芯 single core		三芯 3 cores		单芯 single core		三芯 3 cores	
		空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil
YJLHV-18/20 kV YJLHV62-18/20kV YJLHV22-18/20kV	25	110	145	96	105	110	145	90	105
	35	135	175	115	125	135	175	115	125
	50	160	210	135	150	160	210	140	150
	70	200	255	170	185	200	255	170	185
	95	245	310	205	220	245	310	205	220
	120	285	345	235	250	285	345	240	250
	150	325	400	270	285	325	400	270	285
	185	375	455	310	320	375	455	310	320
	240	440	530	365	370	440	530	360	370
	300	510	605	415	420	510	605	420	420
	400	595	700	485	480	595	700	485	480
	500	690	795	575	570	690	795	565	560
	630	810	920	680	675	810	920	665	665
	800	940	1040	815	810	940	1040	795	795

电缆型号 Type of cable	标称截面 nominal Cross section mm ²	非铠型电缆 non-armored cable				钢带铠装型电缆 Steel tape armoured type cable			
		单芯 single core		三芯 3 cores		单芯 single core		三芯 3 cores	
		空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil
YJLHV-21/35 kV YJLHV62-21/35kV YJLHV22-21/35kV YJLHV-26/35 kV YJLHV62-26/35kV YJLHV22-26/35kV	25	115	140	98	105	115	140	90	105
	35	140	170	115	125	140	170	115	125
	50	170	200	140	145	170	200	140	145
	70	210	250	170	180	210	250	170	180
	95	255	300	205	215	255	300	205	215
	120	295	345	235	245	295	345	240	245
	150	330	395	270	275	330	395	270	275
	185	380	440	305	310	380	440	310	310
	240	450	515	355	360	450	515	360	360
	300	515	585	410	410	515	585	420	410
	400	600	680	470	465	600	680	485	465
	500	695	775	560	555	695	775	565	535
	630	810	895	665	660	810	895	665	625
	800	940	1020	800	795	940	1020	795	750

注 note: 空气中环境温度 40℃; 土壤中环境温度 25℃、热阻系数 1.0 Ambient temperature in the air 40℃; The ambient temperature in the soil is 25℃ and the thermal resistance coefficient is 1.0

环境温度不同时的载流量修正系数表 Correction coefficient of carrying current at different ambient temperature

导体工作温度 Conductor operating temperature ℃	空气中环境温度℃ Ambient temperature in the air							
	20	25	30	35	40	45	50	55
90	1.23	1.17	1.12	1.06	1.00	0.94	0.87	0.81

导体工作温度 Conductor operating temperature ℃	土壤中环境温度℃ Ambient temperature in soil							
	10	15	20	25	30	35	40	
90	1.11	1.07	1.04	1.00	0.96	0.92	0.88	

不同土壤热阻系数的载流量修正系数 Current-carrying correction coefficients of different soil thermal resistance coefficients

热阻系数 thermal resistivity $\rho_w = (K \cdot m/W)$	1.0	1.2	1.5	2.0	2.5
校正系数 correction coefficient	1	0.93	0.85	0.75	0.67

电容: capacitance

导体标称截面 Nominal cross section of conductor mm^2	额定电压 Rated Voltage kV						
	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/30	21/35	26/35
	每相电容 Capacitance per phase $\mu F/km$						
25	0.274	0.217	0.177	0.155	0.126	0.116	0.108
35	0.301	0.237	0.193	0.168	0.135	0.124	0.115
50	0.340	0.266	0.215	0.186	0.148	0.135	0.125
70	0.384	0.298	0.240	0.207	0.163	0.148	0.137
95	0.431	0.333	0.266	0.229	0.178	0.161	0.149
120	0.475	0.366	0.291	0.249	0.193	0.173	0.160
150	0.517	0.396	0.315	0.268	0.206	0.185	0.170
185	0.567	0.433	0.343	0.291	0.222	0.199	0.183
240	0.615	0.485	0.382	0.324	0.245	0.219	0.200
300	0.631	0.531	0.416	0.352	0.264	0.236	0.215
400	0.662	0.591	0.462	0.390	0.291	0.258	0.235
500	0.695	0.658	0.513	0.431	0.319	0.283	0.257
630	0.782	0.740	0.575	0.482	0.355	0.314	0.285
800	0.881	0.833	0.645	0.540	0.391	0.345	0.312

单芯电缆电感: Single core cable inductance

导体标称截面 Nominal cross section of conductor mm ²	额定电压 Rated Voltage kV						
	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/30	21/35	26/35
	电感 electrical inductance mH/km						
25	0.577	0.593	0.612	--	--	--	--
35	0.559	0.574	0.592	0.607	--	--	--
50	0.534	0.549	0.566	0.581	0.614	0.635	0.649
70	0.514	0.527	0.544	0.559	0.596	0.610	0.623
95	0.497	0.511	0.525	0.539	0.575	0.589	0.601
120	0.482	0.495	0.511	0.524	0.558	0.572	0.583
150	0.473	0.485	0.499	0.523	0.545	0.557	0.569
185	0.461	0.473	0.494	0.510	0.531	0.544	0.554
240	0.449	0.466	0.479	0.494	0.514	0.526	0.535
300	0.450	0.456	0.468	0.483	0.501	0.512	0.522
400	0.440	0.445	0.456	0.469	0.486	0.497	0.506
500	0.438	0.440	0.451	0.463	0.479	0.497	0.504
630	0.429	0.431	0.440	0.452	0.467	0.483	0.491
800	0.421	0.422	0.432	0.442	0.456	0.471	0.478

三芯电缆电感: three cores cable electrical inductance

导体标称截面 Nominal cross section of conductor mm ²	额定电压 rated voltage kV						
	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/30	21/35	26/35
	电感 electrical inductance mH/km						
25	0.356	0.380	0.405	0.426	0.473	0.492	0.508
35	0.341	0.363	0.387	0.407	0.452	0.471	0.487
50	0.323	0.344	0.366	0.385	0.428	0.445	0.460
70	0.308	0.327	0.348	0.365	0.405	0.422	0.436
95	0.295	0.312	0.332	0.348	0.386	0.401	0.415
120	0.285	0.301	0.319	0.335	0.370	0.386	0.399
150	0.278	0.293	0.310	0.324	0.358	0.373	0.386
185	0.270	0.284	0.300	0.314	0.346	0.360	0.372
240	0.263	0.274	0.289	0.301	0.331	0.344	0.356
300	0.259	0.267	0.281	0.292	0.321	0.333	0.344
400	0.255	0.259	0.272	0.283	0.309	0.320	0.330
500	0.250	0.253	0.264	0.274	0.298	0.309	0.318
630	0.244	0.246	0.256	0.265	0.287	0.297	0.306
800	0.239	0.240	0.250	0.258	0.279	0.288	0.296

电缆安装时的最小弯曲半径: Minimum bending radius during cable installation:

项目 item	单芯电缆 single core cable		三芯电缆 three-core cable	
	无铠装 non-armored	有铠装 armoring	无铠装 non-armored	有铠装 armoring
安装时的电缆最小弯曲半径 Minimum bending radius during installation	20D	15D	15D	12D
靠近连接盒和终端时 电缆最小弯曲半径 Minimum bending radius close to the connector and terminal	15D	12D	12D	10D
注 note: D 为电缆外径 D is the outer diameter of the cable				

电缆装卸、运输、敷设要求: Requirements during cable handling, transportation, laying

1、确认收货前应对电缆外观进行检查, 确认电缆本体、两端封帽无擦伤、撞伤、压伤等破损现象, 如有异常应及时联系我司, 否则视为交付产品的外观质量符合要求。Before accepting the goods, the appearance of the cable should be checked to ensure that the cable body and the sealing caps at both ends are free from any damage such as scratches, bumps, or crush. If any abnormality occurs, please contact us in time. Otherwise, the appearance quality of the delivered products shall be deemed to meet the requirement

2、电缆吊装、运输、敷设过程要妥善保管, 电缆本体及两端封帽要确保无破损, 防止雨水或其它有害气体、液体进入电缆内部, 导致电缆电性能受到影响。光电复合电缆两端预留长度的光缆单元不能被单独施加外力、不能发生大于 45° 的弯折, 防止光纤折断, 难以接续。Cable shall be properly protected while hoisting, transportation, and in laying process, the cable and caps at both ends have to remain in good condition to prevent rain or other harmful gases, liquids into the cable, to affect cable electrical performance. The optical fiber power composite cable units with the reserved length at both ends cannot be applied by external forces alone or bend more than 45 degrees to prevent the optical fiber from being broken and difficult to connect.

3、电缆长时间存放处应干燥, 避免长时间暴露于露天或潮湿地方, 低烟无卤阻燃电缆(WDZ)、柔性防火电缆等产品不得长期处于露天环境下, 以免因长期暴晒导致电缆护套颜色变化及护套机械性能收到影响。Cable should be stored in dry place, avoid long-term exposure to open air or humid places, low-smoke halogen-free flame retardant cable (WDZ), flexible fireproof cable should not be in open environment for a long time, so as to avoid cable sheath color fading and mechanical properties been affected.

4、电缆敷设前, 应核对电缆型号、规格、额定电压是否正确, 检验合格后方可允许敷设。Before laying the cable, model/type, specification and rated voltage of the cable should be check and confirmed.

5、安装敷设过程中, 如因天气原因暂停敷设, 电缆要放置于安全、干燥处, 防止受到外力撞击, 如电缆封帽已去掉, 电缆端头应做好保护措施, 防止湿气或雨水进入电缆内部。During the installation and laying, if suspended due to weather reasons, the cable should be placed in a safe and dry place to prevent external impact, if the cable cap has been removed, the cable end should take protective measures to prevent moisture or rain from entering the cable.

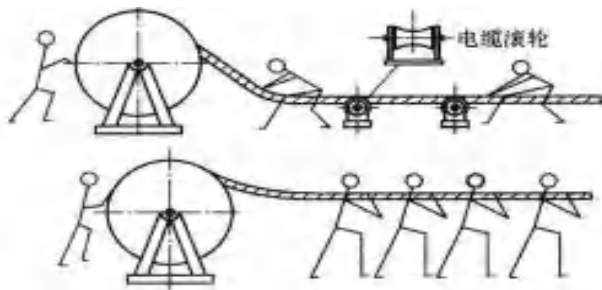
6、敷设时遇有中间接头、终端接头以及弯道处，应根据实际情况适当留有余量，以作为如后期电缆发生故障后备用。During laying, when comes to joints, couplings, ends or bended area, some cables should be reserved in case of maintenance in the future

7、电缆敷设过程中，为了防止弯曲过度而损坏，电缆的弯曲半径应符合国标 GB/T31840-2015 标准规定规定：In the process of cable laying, in order to prevent excessive bending and damage, the bending radius of the cable should comply with the National Standard GB/T31840-2015

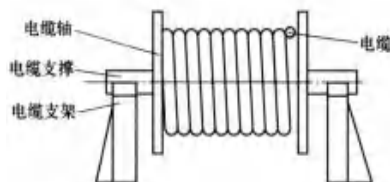
8、按国家标准要求，电缆敷设环境温度应不低于 0℃，寒冷季节敷设电缆时，敷设现场的温度低于 0℃时，应将电缆进行预先加热处理。敷设时间最好选择在环境温度较高时进行。According to the requirements of national standards, the ambient temperature of cable laying should not be lower than 0℃. When laying cables in cold season, when the temperature of the laying site is lower than 0℃, the cables should be pre-heated. It is recommend to laying in hot season

9、电缆施放时应按照电缆轴上箭头指示或图一所示电缆放线方向施放，切不可反方向滚动，以免因电缆松弛造成压线现象。The cable should be laid according to the direction of arrow shown on cable shaft or as shown in picture 1. Do not roll to the opposite direction to avoid compression caused by cable loosen.

10、电缆支架方式敷设时，支架设地点应选好，以敷设方便为准，一般应在电缆起止点附近为宜，应注意电缆轴的转动方向，电缆引出端应在轴的上方，见图二：When laying the cable support, the installation location should be selected, and the ease installation shall prevail. Generally, it should be near the starting and ending point of the cable. Attention should be paid to the rotation direction of the cable shaft, and the cable leading end should be above the shaft, as shown in picture 2:



图一 Figure 1



图二 Figure 2

11、电缆可采用图一所示人力拉引或图三机械牵引方法敷设（符合国标 GB50618-2016）。The cable can be laid by manual pulling as shown in Figure 1 or mechanical pulling as shown in Figure 3 (in accordance with the national standard GB50618-2016).

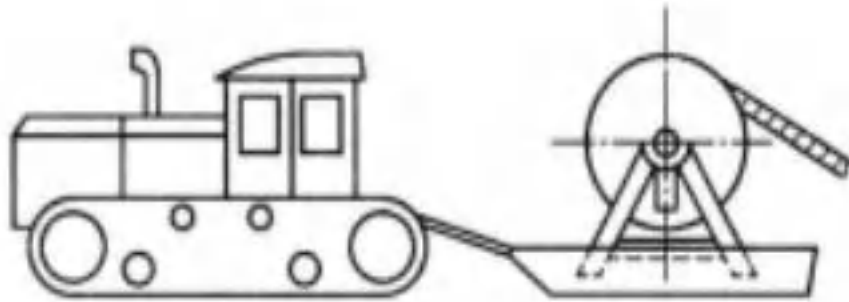


图 三 Figure 3