RuiYang Group Northest Cable Co.,LTD

Ruiyang Group Northeast Cable Co.,Ltd is a natinal high-tech company which has been engaged in R&D, production, sale & after-sales service of cable and accessories since 2010. Presently, we have many high qualified engineers and a well-educated sales team. We communicate with many foreign Engineering Project to enlarge our scale and increase investment in new products to meet the requirements of different markets. Our main business focuses on developing and producing high quality wires and cables , also accessories. We are in the leading position in the field of wires and cables.We have independently developed extra-high-tension cable series & Frost cable series and Cable Accessories products. With high technology, stable quality and perfect results, these devices have won great popularity among clients from all over the world. Furthermore, the best quality products make our company have great competitiveness in the market, promoting technology of Cables to a high speed development level.Our company insists on the "Unity, Standardization, efficiency, Development" principle. With excellent product quality, we have won the trust of our customers. We will make those who take great enthusiasm with Electric Technolohy and Power Transmission dream come true! Creating and maintaining a leading position in world science and technology in Cable field is the unshaken goal of Ruiyang Group!

Production Certification

Picture	Certification Name	Certified By	Business Scope	Available Date	Verified
	CCC	CQC	PVC insulated screened wire	2015-04-29 ~ 2020-04-29	✔
	ISO9001	Beijin Head International Certification Co.,Ltd	Production and Service of Qualification within the Scope of Wire and Cable	2016-06-15 ~ 2018-06-14	✔
	TUV	TUV Rheinland	PV1-F 1*4mm2 AC Uo/U 0.6/1KV DC 1,8 KV(conductor-conductor,non earthed systerm,circuit not under load)	2019-03-28 ~	✔
	CCC	CQC	PVC insulated PVC jacket cable	2015-04-29 ~ 2020-04-29	-
	CCC	CQC	PVC insulated PVC jacket elevator cable	2015-04-30 ~ 2020-04-29	-
	CCC	CQC	PVC insulated no jacket cable & wire	2015-04-29 ~ 2020-04-29	-

Production Equipment

Name	No	Quantity	Verified
stranding mechine	GB	1	-

Factory Information

Factory Size	30,000-50,000 square meters
Factory Country/Region	(Area D6f, North Of No. 11 Rd.) Zhongxing Street, Fushun Economic Development Zone,Fushun City,Liaoning Province,P.R. China
No. of Production Lines	3
Contract Manufacturing	OEM Service OfferedDesign Service Offered
Annual Output Value	Above US$100 Million

Annual Production Capacity

Product Name	units Produced	highestEver	unit Type	Verified
wireline&cable	200000	300000	Kilometer/Kilometers	-

Production Line

Production Line	Supervisor	NO.of Operators	NO.of In-line QC/QA	Verified
stranding	1	5	2	-

Our cables division has a very wide range of products, our competitive products are

LV and HV XLPE Insulated Power Cables,
PVC Insulated Power Cables,

Low Smoke, Zero (Low)-Halogen Flame Retardant Cables,

Coaxial Cables,

Fireproof Cables,

Aluminum Alloy Cables,
Cabtyre Cables,
Overhead Cables,
Control Cables,
Silicone Rubber Cables,
Ribbon Cables,
High and Low Temperature Corrosion Resistant Cables,

Mineral Insulated Cables,

Other special cables according to customer requirements and Cable Accessories.

Our Factory :

1.Professional production of wire and cable factory
2.Covers an area of 144000 square meters with over 500 employees
3.The annual production capacity of $ 20 billion
4. Competitive products, professional service team

5. Certification:ISO9001,OHSAS18001,ISO14001,3C,TUV ,CE and so on.

OUR FACTORY

PRODUCTION PROCESS

Wire drawing

Stranding

Crosslinking

PD Detection

Screening

Cabling

Inner Sheath

PD Detection

Inner Sheath

Packaging

Testing (1)

Testing (2)

01 >>

交联聚乙烯绝缘电力电缆
XLPE INSULATED ELECTRIC CABLE

打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

交联聚乙烯绝缘电力电缆
XLPE insulated electric cable

一、用途 Usage

电缆用于额定电压 0.6/1,1.8/3,3.6/6,6/6,6/10,8.7/10,8.7/15,12/20,21/35,26/35kV 输配电系统。

The cable is used in electric transmission and distribution system operation at rated voltage of 0.6/1,1.8/3,3.6/6,6/6,6/10,8.7/10,8.7/15,12/20,21/35,26/35kV

二、型号及名称(见表 1) Model and name(see table 1)

表 1
table 1

型　号 Model	名　称 Name
YJV YJLV	铜芯或铝芯交联聚乙烯绝缘,聚氯乙烯护套电力电缆 Cu or Al conductor,XLPE insulated,PVC sheathed electric cable
YJV22 YJLV22	铜芯或铝芯交联聚乙烯绝缘,钢带铠装聚氯乙烯护套电力电缆 Cu or Al conductor,XLPE insulated steel tape armoured PVC sheathed electric cable
YJV32.42 YJLV32.42	铜芯或铝芯交联聚乙烯绝缘,钢丝铠装聚氯乙烯护套电力电缆 Cu or Al conductor,XLPE insulated steel tape armoured PVC sheathred electric cable

三、结构尺寸、技术参数(见表 2–14) Structure size,technology parameters(see table2–14)

YJV–0.6/1kV 交联电力电缆

表 2
table 2

导线标称截面 Nominal–Cross sectional area of conductor (mm²)	绝缘厚度 Insulation thickness (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx. overall diameter of cable(mm)	电缆近似重量 Approx.weight of cable (mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	绝缘电阻 Insulation resistance90℃	电缆载流量			
										在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
				Cu	Al	Cu	Al	(kV/5min)	(MΩkm)	Cu	Al	Cu	Al
1 × 1.5	0.7	1.5	6	53	–	≤12.1	–	3.5	≥1.10	–	–	–	–
1 × 2.5	0.7	1.5	6	68	53	≤7.41	≤12.1	3.5	≥0.916	–	–	–	–
1 × 4	0.7	1.5	7	87	64	≤4.61	≤7.41	3.5	≥0.757	–	–	60	50
1 × 6	0.7	1.5	7	110	73	≤3.08	≤4.61	3.5	≥0.645	–	–	70	55
1 × 10	0.7	1.5	8	155	95	≤1.83	≤3.08	3.5	≥0.523	–	–	95	75
1 × 16	0.7	1.5	9	220	120	≤1.15	≤1.91	3.5	≥0.431	–	–	125	100
1 × 25	0.9	1.5	10	345	190	≤0.727	≤1.20	3.5	≥0.444	123	95	160	130
1 × 35	0.9	1.5	12	424	207	≤0.524	≤0.868	3.5	≥0.379	149	115	190	150
1 × 50	1.0	1.5	13	555	245	≤0.387	≤0.641	3.5	≥0.355	190	147	225	180
1 × 70	1.1	1.5	14	770	336	≤0.268	≤0.443	3.5	≥0.335	231	179	280	225
1 × 95	1.1	1.5	16	1040	455	≤0.193	≤0.320	3.5	≥0.290	285	221	335	270
1 × 120	1.2	1.5	18	1290	550	≤0.153	≤0.253	3.5	≥0.282	332	257	380	305
1 × 150	1.4	2.0	21	1590	650	≤0.124	≤0.206	3.5	≥0.294	380	294	425	340
1 × 185	1.6	2.0	23	1944	804	≤0.0991	≤0.164	3.5	≥0.303	439	390	480	375
1 × 240	1.7	2.0	25	2510	1021	≤0.0754	≤0.125	3.5	≥0.283	529	410	555	435
1 × 300	1.8	1.8	27.8	3026	1162	≤0.0601	≤0.1	3.5	≥0.260	620	485	605	475
1 × 400	2.0	2.0	31.5	3860	1476	0.047	0.078	3.5	≥0.250	720	570	685	545
2 × 1.5	0.7	1.8	10.4	116	97	≤12.1	–	3.5	≥1.10	20	–	17	–
2 × 2.5	0.7	1.8	11.2	145	113	≤7.41	≤12.1	3.5	≥0.916	33	25	46	36
2 × 4	0.7	1.8	12.2	185	135	≤4.61	≤7.41	3.5	≥0.757	43	34	59	47
2 × 6	0.7	1.8	13.2	236	161	≤3.08	≤4.61	3.5	≥0.645	55	45	75	61
2 × 10	0.7	1.8	15.8	348	221	≤1.83	≤3.08	3.5	≥0.523	76	58	100	78
2 × 16	0.7	1.8	17.8	487	286	≤1.15	≤1.91	3.5	≥0.431	97	75	130	100
2 × 25	0.9	1.8	21.2	718	401	≤0.727	≤1.20	3.5	≥0.444	130	100	165	130
2 × 35	0.9	1.8	22.4	907	473	≤0.524	≤0.868	3.5	≥0.379	160	120	200	155
2 × 50	1.0	1.8	25.4	1189	603	≤0.387	≤0.641	3.5	≥0.355	195	150	240	185
2 × 70	1.1	1.8	28.8	1642	793	≤0.268	≤0.443	3.5	≥0.335	245	190	290	225
2 × 95	1.1	2.0	32.6	2220	1041	≤0.193	≤0.32	3.5	≥0.290	305	235	355	275
2 × 120	1.2	2.1	36.2	2769	1282	≤0.153	≤0.253	3.5	≥0.282	355	275	405	395
2 × 150	1.4	2.2	40.2	3404	1570	≤0.124	≤0.206	3.5	≥0.294	405	315	450	350
2 × 185	1.6	2.3	44.4	4222	1926	≤0.0991	≤0.164	3.5	≥0.303	465	365	510	395
2 × 240	1.7	2.5	49.8	5472	2455	≤0.0754	≤0.125	3.5	≥0.283	542	424	588	465
2 × 300	1.8	2.7	55.0	6804	3018	≤0.0601	≤0.1	3.5	≥0.260	627	492	664	524
2 × 400	2.0	2.9	62.0	8654	3814	≤0.047	≤0.078	3.5	≥0.250	723	576	723	600
3 × 1.5	0.7	1.5	10	145	–	≤12.1	–	3.5	≥1.10	–	–	–	–
3 × 2.5	0.7	1.5	11	185	140	≤7.41	≤12.1	3.5	≥0.916	20	15	–	–
3 × 4	0.7	1.5	12	250	175	≤4.61	≤7.41	3.5	≥0.757	27	21	30	30
3 × 6	0.7	1.5	13	320	210	≤3.08	≤4.61	3.5	≥0.645	35	27	60	37

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx. overall diameter of cable(mm)	电缆近似重量 Approx.weight of cable (mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	绝缘电阻 Insulation resistance90℃	电缆载流量 Currernt rating			
										在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
				Cu	Al	Cu	Al	(kV/5min)	(MΩkm)	Cu	Al	Cu	Al
3 × 10	0.7	1.8	15	450	260	≤1.83	≤3.08	3.5	≥0.523	49	38	65	50
3 × 16	0.7	1.8	17	640	340	≤1.15	≤1.91	3.5	≥0.431	67	52	88	68
3 × 25	0.9	1.8	21	940	470	≤0.727	≤1.20	3.5	≥0.444	89	69	113	87
3 × 35	0.9	1.8	23	1260	600	≤0.524	≤0.868	3.5	≥0.379	106	82	136	105
3 × 50	1.0	1.8	27	1670	730	≤0.387	≤0.641	3.5	≥0.355	135	104	167	120
3 × 70	1.1	1.9	30	2280	970	≤0.268	≤0.443	3.5	≥0.335	167	129	196	152
3 × 95	1.1	2.0	34	3020	1240	≤0.193	≤0.320	3.5	≥0.290	200	155	233	180
3 × 120	1.2	2.1	38	3790	1540	≤0.153	≤0.253	3.5	≥0.282	214	181	267	207
3 × 150	1.4	2.3	42	4750	1940	≤0.124	≤0.206	3.5	≥0.294	273	211	306	237
3 × 185	1.6	2.4	45	5654	2248	≤0.0991	≤0.164	3.5	≥0.303	318	246	341	264
3 × 240	1.7	2.6	51	7243	2723	≤0.0754	≤0.125	3.5	≥0.283	380	294	400	310
3 × 300	1.8	2.8	59.1	9646	3969	≤0.0601	≤0.1	3.5	≥0.260	555	435	565	445
3 × 400	2.0	3.1	66.8	12306	5046	≤0.047	≤0.078	3.5	≥0.250	640	510	640	510
4 × 4	0.7	1.8	13	253	155	≤4.61	≤7.41	3.5	≥0.757	27	21	39	30
4 × 6	0.7	1.8	14	337	184	≤3.08	≤4.61	3.5	≥0.645	35	27	48	37
4 × 10	0.7	1.8	16	501	258	≤1.83	≤3.08	3.5	≥0.523	49	38	65	50
4 × 16	0.7	1.8	19	778	366	≤1.15	≤1.91	3.5	≥0.431	67	52	88	68
4 × 25	0.7	1.8	22	1160	540	≤0.727	≤1.20	3.5	≥0.444	89	69	113	87
4 × 35	0.9	1.8	25	1554	686	≤0.524	≤0.868	3.5	≥0.379	106	82	136	105
4 × 50	1.0	1.8	28	2148	907	≤0.387	≤0.641	3.5	≥0.355	135	104	167	129
4 × 70	1.1	2.0	32	2928	1192	≤0.268	≤0.443	3.5	≥0.335	167	129	196	152
4 × 95	1.1	2.1	37	3854	1598	≤0.193	≤0.320	3.5	≥0.290	200	135	233	180
4 × 120	1.2	2.3	42	4925	1949	≤0.153	≤0.253	3.5	≥0.282	234	181	267	207
4 × 150	1.4	2.4	46	6238	2517	≤0.124	≤0.206	3.5	≥0.294	273	211	306	237
4 × 185	1.6	2.6	51	7562	3091	≤0.0991	≤0.164	3.5	≥0.303	318	246	341	264
4 × 240	1.7	2.8	57	9836	3825	≤0.0754	≤0.125	3.5	≥0.283	380	294	400	310
4 × 400	2.0	3.3	74.4	16166	6486	≤0.047	≤0.078	3.5	≥0.250	640	510	640	510
3 × 4+1 × 2.5	0.7	1.8	13	236	147	≤4.61	≤7.41	3.5	≥0.757	27	30	50	40
3 × 6+1 × 4	0.7	1.8	14	316	187	≤3.08	≤4.61	3.5	≥0.645	35	40	60	45
3 × 10+1 × 6	0.7	1.8	16	461	234	≤1.83	≤3.08	3.5	≥0.523	49	50	80	60
3 × 16+1 × 10	0.7	1.8	18	679	322	≤1.15	≤1.91	3.5	≥0.431	67	65	100	80
3 × 25+1 × 16	0.9	1.8	22	1065	505	≤0.727	≤1.20	3.5	≥0.444	89	90	130	100
3 × 35+1 × 16	0.9	1.8	24	1360	615	≤0.524	≤0.868	3.5	≥0.379	106	110	155	120
3 × 50+1 × 25	1.0	1.8	28	1901	816	≤0.387	≤0.641	3.5	≥0.355	135	130	185	140
3 × 70+1 × 35	1.1	1.9	31	2585	1085	≤0.268	≤0.443	3.5	≥0.335	167	170	225	175
3 × 95+1 × 50	1.1	2.1	36	3518	1440	≤0.193	≤0.320	3.5	≥0.290	200	205	270	210
3 × 120+1 × 70	1.2	2.2	40	4443	1766	≤0.153	≤0.253	3.5	≥0.282	234	240	305	235
3 × 150+1 × 70	1.4	2.3	44	5326	2100	≤0.124	≤0.206	3.5	≥0.294	273	275	345	265
3 × 185+1 × 95	1.6	2.5	48	6682	2650	≤0.0991	≤0.164	3.5	≥0.303	318	320	390	301
3 × 240+1 × 120	1.7	2.7	53	8501	3291	≤0.0754	≤0.125	3.5	≥0.283	380	385	455	355
3 × 300+1 × 150	1.8	2.9	61.5	11043	4462	≤0.0601	≤0.1	3.5	≥0.260	555	435	565	445
3 × 400+1 × 185	2.0	3.1	69.3	14026	5635	≤0.047	≤0.078	3.5	≥0.250	640	510	640	510

YJLV、YJV-6/6kV 交联电力电缆

表 3
table 3

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx. overall diameter of cable(mm)	电缆近似重量 Approx.weight of cable (mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	电缆载流量 Currernt rating			
									在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
				Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
1 × 25	3.4	1.8	20	598	443	≤0.727	≤1.20	15	165	130	160	120
1 × 35	3.4	1.8	22	719	502	≤0.524	≤0.868	15	205	155	190	145
1 × 50	3.4	1.8	23	884	575	≤0.387	≤0.641	15	245	190	225	175
1 × 70	3.4	1.8	24	1097	644	≤0.268	≤0.443	15	305	235	275	215
1 × 95	3.4	1.8	26	1378	790	≤0.193	≤0.320	15	370	290	330	255
1 × 120	3.4	1.8	28	1658	916	≤0.153	≤0.253	15	430	335	375	290
1 × 150	3.4	1.9	30	1967	1038	≤0.124	≤0.206	15	490	380	425	330
1 × 185	3.4	1.9	31	2335	1190	≤0.0991	≤0.164	15	560	485	480	370
1 × 240	3.4	2.0	34	2908	1423	≤0.0754	≤0.125	15	665	515	555	435
1 × 300	3.4	2.1	36	3507	1650	≤0.0601	≤0.100	15	765	595	630	490
1 × 400	3.4	2.2	39	4503	2027	≤0.04070	≤0.0778	15	890	695	725	565
1 × 500	3.4	2.3	42	5479	2384	≤0.0366	≤0.060	15	1180	910	1150	895
3 × 25	3.4	2.2	42	895	1430	≤0.727	≤1.20	15	135	105	150	115
3 × 35	3.4	2.3	44	2293	1640	≤0.524	≤0.868	15	160	130	180	140
3 × 50	3.4	2.4	46	2812	1881	≤0.387	≤0.641	15	195	155	210	165
3 × 70	3.4	2.5	50	3508	2205	≤0.268	≤0.443	15	245	190	260	200
3 × 95	3.4	2.6	54	4402	2653	≤0.193	≤0.320	15	300	235	305	240
3 × 120	3.4	2.7	58	5319	3087	≤0.153	≤0.253	15	345	270	350	275
3 × 150	3.4	2.9	62	6309	3518	≤0.124	≤0.206	15	395	310	390	305
3 × 185	3.4	3.0	65	7319	3877	≤0.0991	≤0.164	15	455	355	445	350
3 × 240	3.4	3.1	71	9218	4753	≤0.0754	≤0.125	15	540	420	515	405
3 × 300	3.4	3.3	75	11159	5577	≤0.0601	≤0.1005	15	615	485	580	455
3 × 400	3.4	3.5	80.4	14.1	6.8	≤0.047	≤0.078	15	620	495	620	490
3 × 500	3.4	3.7	86.8	17.3	8.1	≤0.0366	≤0.0605	15	710	569	714	527

YJLV、YJV-8.7/10kV 8.7/15kV 交联电力电缆

表 4
table 4

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx. overall diameter of cable(mm)	电缆近似重量 Approx.weight of cable (mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltge A.C.	电缆载流量 Currernt rating			
									在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
				Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
1 × 25	4.5	1.8	23	680	525	≤0.727	≤1.20	22	165	130	160	120
1 × 35	4.5	1.8	24	804	587	≤0.524	≤0.868	22	205	155	190	145
1 × 50	4.5	1.8	25	984	674	≤0.387	≤0.641	22	245	160	225	175
1 × 70	4.5	1.8	27	1201	768	≤0.268	≤0.443	22	305	200	275	215
1 × 95	4.5	1.8	29	1490	902	≤0.193	≤0.320	22	370	245	330	255
1 × 120	4.5	1.9	30	1765	1022	≤0.153	≤0.253	22	430	280	375	290
1 × 150	4.5	1.9	32	2091	1162	≤0.124	≤0.206	22	490	320	425	330
1 × 185	4.5	2.0	34	3452	1307	≤0.0991	≤0.164	22	560	365	480	370
1 × 240	4.5	2.1	36	3034	1548	≤0.0754	≤0.125	22	665	435	555	435
1 × 300	4.5	2.1	39	3672	1815	≤0.0601	≤0.100	22	765	500	630	490
1 × 400	4.5	2.2	42	4646	2170	≤0.0470	≤0.0778	22	890	585	725	565
1 × 500	4.5	2.3	45	5651	2556	≤0.0366	≤0.0605	22	1180	910	1150	895
3 × 25	4.5	2.4	50	2573	2072	≤0.727	≤1.20	22	140	110	140	110
3 × 35	4.5	2.5	53	2985	2334	≤0.524	≤0.868	22	170	130	170	130
3 × 50	4.5	2.6	55	3529	2598	≤0.387	≤0.641	22	205	160	200	155
3 × 70	4.5	2.7	58	4197	2895	≤0.268	≤0.443	22	255	195	245	190
3 × 95	4.5	2.8	63	5230	3462	≤0.193	≤0.320	22	310	235	290	225
3 × 120	4.5	2.9	66	6120	3888	≤0.153	≤0.253	22	350	275	330	255
3 × 150	4.5	3.0	70	7207	4416	≤0.124	≤0.206	22	400	310	370	285
3 × 185	4.5	3.1	74	8378	4935	≤0.0991	≤0.164	22	455	355	420	325
3 × 240	4.5	3.3	79	10177	5712	≤0.0754	≤0.125	22	530	415	480	380
3 × 300	4.5	3.4	84	12159	6577	≤0.0601	≤0.100	22	605	475	545	430

YJLV、YJV-12/20kV 交联电力电缆

表 5
table 5

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx. overall diameter of cable(mm)	电缆近似重量 Approx.weight of cable (mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	电缆载流量 Currernt rating			
									在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
				Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
1 × 35	5.5	1.8	27	979	762	≤0.524	≤0.868	30	205	155	190	145
1 × 50	5.5	1.8	29	1155	846	≤0.387	≤0.641	30	245	190	225	175
1 × 70	5.5	1.9	30	1393	959	≤0.268	≤0.443	30	305	235	275	215
1 × 95	5.5	1.9	32	1681	1093	≤0.193	≤0.320	30	370	290	330	255
1 × 120	5.5	2.0	34	1979	1236	≤0.153	≤0.253	30	430	335	375	290
1 × 150	5.5	2.0	35	2301	1373	≤0.124	≤0.206	30	490	380	425	330
1 × 185	5.5	2.1	38	2718	1573	≤0.0991	≤0.164	30	560	435	480	370
1 × 240	5.5	2.1	40	3302	1817	≤0.0754	≤0.125	30	665	515	555	435
1 × 300	5.5	2.2	43	3941	2084	≤0.0601	≤0.100	30	765	595	630	490
1 × 400	5.5	2.3	45	4931	2455	≤0.0470	≤0.0778	30	890	695	725	565
1 × 500	5.5	2.4	48	5956	2861	≤0.0366	≤0.0605	30	1160	890	114	885
3 × 35	5.5	2.6	57	3348	2696	≤0.524	≤0.868	30	175	130	170	130
3 × 50	5.5	2.7	60	3904	2973	≤0.387	≤0.641	30	205	160	200	155
3 × 70	5.5	2.8	63	4626	3321	≤0.268	≤0.443	30	255	195	240	190
3 × 95	5.5	3.0	67	5593	3825	≤0.193	≤0.320	30	310	240	290	225
3 × 120	5.5	3.1	71	6495	4262	≤0.153	≤0.253	30	350	275	330	285
3 × 150	5.5	3.2	74	7637	4846	≤0.124	≤0.206	30	400	310	370	325
3 × 185	5.5	3.3	78	8803	5361	≤0.0991	≤0.164	30	455	355	415	380
3 × 240	5.5	3.4	84	10729	6263	≤0.0754	≤0.125	30	535	420	480	430
3 × 300	5.5	3.6	89	12723	7141	≤0.0601	≤0.100	30	610	475	5450	490

YJLV、YJV-21/35kV 交联电力电缆

表 6
table 6

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx. overall diameter of cable(mm)	电缆近似重量 Approx.weight of cable (mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	电缆载流量 Currernt rating			
									在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
				Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
1 × 50	9.3	2.1	37	1609	1360	≤0.387	≤0.641	53	275	190	285	175
1 × 70	9.3	2.1	38	1850	1417	≤0.268	≤0.443	53	340	235	350	215
1 × 95	9.3	2.2	40	2193	1605	≤0.193	≤0.320	53	415	285	420	255
1 × 120	9.3	2.2	42	2498	1756	≤0.153	≤0.253	53	475	330	480	290
1 × 150	9.3	2.3	44	2830	1910	≤0.124	≤0.206	53	540	375	540	325
1 × 185	9.3	2.3	45	3248	2101	≤0.0991	≤0.164	53	620	430	620	370
1 × 240	9.3	2.4	48	3881	2395	≤0.0754	≤0.125	53	730	505	725	430
1 × 300	9.3	2.5	50	4529	2672	≤0.0601	≤0.100	53	840	580	830	490
1 × 400	9.3	2.6	53	5570	3094	≤0.0470	≤0.0778	53	995	680	970	565
1 × 500	9.3	2.6	55	6690	3595	≤0.0366	≤0.0605	53	1160	790	1130	645

YJLV、 YJV-26/35kV 交联电力电缆

表 7
table 7

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx. overall diameter of cable(mm)	电缆近似重量 Approx.weight of cable (mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	电缆载流量 Currernt rating			
									在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
				Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
1 × 50	10.5	2.2	39	1758	1449	≤0.387	≤0.641	65	245	190	225	175
1 × 70	10.5	2.2	41	2038	1604	≤0.268	≤0.443	65	305	235	275	215
1 × 95	10.5	2.3	43	2355	1767	≤0.193	≤0.320	65	370	285	330	255
1 × 120	10.5	2.3	44	2666	1923	≤0.153	≤0.253	65	425	330	375	290
1 × 150	10.5	2.4	46	3031	2103	≤0.124	≤0.206	65	485	375	420	315
1 × 185	10.5	2.4	48	3427	2282	≤0.0991	≤0.164	65	555	430	475	370
1 × 240	10.5	2.5	50	4070	2584	≤0.0754	≤0.125	65	650	505	555	430
1 × 300	10.5	2.6	53	4748	2891	≤0.0601	≤0.100	65	745	580	630	492
1 × 400	10.5	2.7	56	5801	3325	≤0.0470	≤0.0778	65	870	680	720	565
1 × 500	10.5	2.8	59	6623	4076	≤0.0366	≤0.0605	65	1000	790	825	645
3 × 50	10.5	3.5	81	6728	5778	≤0.387	≤0.641	65	189	152	168	144
3 × 70	10.5	3.6	84	7581	6232	≤0.268	≤0.443	65	244	189	223	177
3 × 95	10.5	3.7	88	8630	6824	≤0.193	≤0.320	65	295	225	270	200
3 × 120	10.5	3.8	93	9688	7406	≤0.153	≤0.253	65	331	258	307	237
3 × 150	10.5	3.9	96	11017	8165	≤0.124	≤0.206	65	377	290	344	265
3 × 185	10.5	4.0	100	12390	8904	≤0.0991	≤0.164	65	–	–	–	–
3 × 240	10.5	4.2	105	14427	9863	≤0.0754	≤0.125	65	–	–	–	–

YJLV22、 YJV22-0.6/1kV 钢带铠装交联电力电缆

表 8
table 8

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	内护套厚度 Inner Sheath thickness (mm)	钢带厚度 Steel tape diameter (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx.overall diameter of cable (mm)	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	绝缘电阻 Insulation resistance90℃	电缆载流量 Currernt rating			
												在空气中 In air(A)		直埋土壤中 Direct in soil (A)	
						Cu	Al	Cu	Al	(kv/5min)	(MΩ/km)	Cu	Al	Cu	Al
3 × 1.5	0.7	1.8	2×0.3	1.5	13	273	–	≤12.1	–	3.5	≥1.10	15	–	22	–
3 × 2.5	0.7	1.8	2×0.3	1.5	14	321	275	≤7.41	≤12.1	3.5	≥0.916	19	15	29	23
3 × 4	0.7	1.8	2×0.3	1.5	15	390	315	≤4.61	≤7.41	3.5	≥0.757	26	20	38	30
3 × 6	0.7	1.8	2×0.3	1.5	16	471	360	≤3.08	≤4.61	3.5	≥0.645	32	26	47	39
3 × 10	0.7	1.8	2×0.3	1.5	18	622	433	≤1.83	≤3.08	3.5	≥0.523	46	35	65	50
3 × 16	0.7	1.8	2×0.5	2.0	22	1005	705	≤1.15	≤1.91	3.5	≥0.431	60	47	84	65
3 × 25	0.9	1.8	2×0.5	2.0	25	1371	898	≤0.727	≤1.20	3.5	≥0.444	77	60	110	84
3 × 35	0.9	1.8	2×0.5	2.0	27	1724	1061	≤0.524	≤0.868	3.5	≥0.379	95	74	130	100
3 × 50	1.0	1.8	2×0.5	2.0	30	2247	1300	≤0.387	≤0.641	3.5	≥0.355	115	90	155	120
3 × 70	1.1	2.0	2×0.5	2.5	35	3023	1697	≤0.268	≤0.443	3.5	≥0.335	145	115	195	150
3 × 95	1.1	2.1	2×0.5	2.5	39	3825	2026	≤0.193	≤0.320	3.5	≥0.290	185	140	230	185
3 × 120	1.2	2.3	2×0.5	2.5	42	4642	2370	≤0.153	≤0.253	3.5	≥0.282	211	165	260	205
3 × 150	1.4	2.4	2×0.5	3.0	48	5767	2926	≤0.124	≤0.206	3.5	≥0.294	245	191	300	230
3 × 185	1.6	2.6	2×0.5	3.0	51	6895	3391	≤00991	≤0.164	3.5	≥0.303	280	215	335	260
3 × 240	1.7	2.7	2×0.5	3.0	56	8617	4072	≤00754	≤0.125	3.5	≥0.283	335	260	390	300
4 × 4	0.7	1.8	2×0.3	1.5	16	454	354	≤4.61	≤7.41	3.5	≥757	26	20	38	30

表 8
table 8

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	内护套厚度 InnerSheath thickness (mm)	钢带厚度 Steel tape diameter (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx.overall diameter of cable (mm)	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	绝缘电阻 Insulation resistance90 ℃	电缆载流量 Currernt rating			
												在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
						Cu	Al	Cu	Al	(kV/5min)	(MΩ/km)	Cu	Al	Cu	Al
4 × 6	0.7	1.8	2 × 0.3	1.5	17	557	409	≤3.08	≤4.61	3.5	≥0.645	32	26	47	39
4 × 10	0.7	1.8	2 × 0.3	2.0	20	791	539	≤1.83	≤3.08	3.5	≥0.523	46	35	65	50
4 × 16	0.7	1.8	2 × 0.5	2.0	23	1210	810	≤1.15	≤1.91	3.5	≥0.431	60	47	84	65
4 × 25	0.9	1.8	2 × 0.5	2.0	27	1672	1041	≤0.727	≤1.20	3.5	≥0.444	77	60	110	84
4 × 35	0.9	1.8	2 × 0.5	2.0	29	2127	1243	≤0.524	≤0.868	3.5	≥0.379	95	74	130	100
4 × 50	1.0	1.9	2 × 0.5	2.0	33	2802	1539	≤0.387	≤0.641	3.5	≥0.355	115	90	155	120
4 × 70	1.1	2.1	2 × 0.5	2.5	38	3785	2017	≤0.268	≤0.443	3.5	≥0.335	145	115	195	150
4 × 95	1.1	2.3	2 × 0.5	2.5	42	4829	2430	≤0.193	≤0.320	3.5	≥0.290	185	140	230	185
4 × 120	1.2	2.4	2 × 0.5	3.0	47	6033	3003	≤0.153	≤0.253	3.5	≥0.282	211	165	260	205
4 × 150	1.4	2.6	2 × 0.5	3.0	52	7356	3568	≤0.124	≤0.206	3.5	≥0.294	245	191	300	230
4 × 185	1.6	2.7	2 × 0.5	3.0	56	8808	4134	≤0.0991	≤0.164	3.5	≥0.303	280	215	335	260
4 × 240	1.7	2.9	2 × 0.5	3.0	62	11182	5122	≤0.0754	≤0.125	3.5	≥0.283	335	260	390	300
3 × 4+1 × 2.5	0.7	1.8	2 × 0.3	1.5	16	443	336	≤4.61	≤7.41	3.5	≥0.757	26	20	38	30
3 × 6+1 × 4	0.7	1.8	2 × 0.3	1.5	17	531	402	≤3.08	≤4.61	3.5	≥0.645	32	26	47	39
3 × 10+1 × 6	0.7	1.8	2 × 0.3	2.0	20	741	521	≤1.83	≤3.08	3.5	≥0.523	46	35	65	50
3 × 16+1 × 10	0.7	1.8	2 × 0.5	2.0	23	1135	785	≤1.15	≤1.91	3.5	≥0.431	60	47	84	65
3 × 25+1 × 16	0.9	1.8	2 × 0.5	2.0	26	1556	1004	≤0.727	≤1.20	3.5	≥0.444	77	60	110	84
3 × 35+1 × 16	0.9	1.8	2 × 0.5	2.0	28	1896	1132	≤0.524	≤0.868	3.5	≥0.379	95	74	130	100
3 × 50+1 × 25	1.0	1.9	2 × 0.5	2.0	31	2518	1412	≤0.387	≤0.641	3.5	≥0.355	115	90	155	120
3 × 70+1 × 35	1.1	2.0	2 × 0.5	2.5	36	3293	1846	≤0.268	≤0.443	3.5	≥0.335	145	115	195	150
3 × 95+1 × 50	1.1	2.2	2 × 0.5	2.5	40	4349	2250	≤0.193	≤0.320	3.5	≥0.290	185	140	230	185
3 × 120+1 × 70	1.2	2.3	2 × 0.5	2.5	44	5365	2714	≤0.153	≤0.253	3.5	≥0.282	211	165	260	205
3 × 150+1 × 70	1.4	2.5	2 × 0.5	3.0	49	6468	3154	≤0.124	≤0.206	3.5	≥0.294	245	191	300	230
3 × 185+1 × 95	1.6	2.6	2 × 0.5	3.0	52	7854	3765	≤0.0991	≤0.164	3.5	≥0.303	280	215	335	260
3 × 240+1 × 120	1.7	2.8	2 × 0.5	3.5	78	9814	4512	≤0.0754	≤0.125	3.5	≥0.283	335	260	390	300

YJLV22、YJV22、 6/6kV 6/10kV 交联电力电缆

表 9
table 9

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	内护套厚度 Inner Sheath thickness (mm)	钢带厚度 Steel tape diameter (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx.overall diameter of cable (mm)	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	电缆载流量 Currernt rating			
											在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
						Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
3 × 25	3.4	1.3	2 × 0.5	2.4	47	3010	2554	≤0.727	≤1.20	15	135	105	140	110
3 × 35	3.4	1.3	2 × 0.5	2.5	50	3498	2847	≤0.524	≤0.868	15	160	130	165	130
3 × 50	3.4	1.4	2 × 0.5	2.6	53	4135	3205	≤0.387	≤0.641	15	195	155	195	150
3 × 70	3.4	1.5	2 × 0.5	2.7	56	4958	3655	≤0.268	≤0.443	15	245	190	240	185
3 × 95	3.4	1.5	2 × 0.5	2.8	61	5974	4206	≤0.193	≤0.320	15	300	235	290	225
3 × 120	3.4	1.6	2 × 0.5	2.9	64	6969	4736	≤0.153	≤0.253	15	345	270	330	255
3 × 150	3.4	1.6	2 × 0.5	3.0	69	8161	5370	≤0.124	≤0.206	15	395	305	365	285
3 × 185	3.4	1.7	2 × 0.5	3.1	72	9417	5975	≤0.0991	≤0.164	15	455	350	415	320
3 × 240	3.4	1.8	2 × 0.5	3.3	78	11340	6874	≤0.0754	≤0.125	15	540	410	480	375
3 × 300	3.4	1.9	2 × 0.8	3.5	84	14247	8665	≤0.0601	≤0.100	15	615	470	540	425

YJLV22、YJV22–8.7/10kV 8.7/15kV 交联电力电缆

表 10
table 10

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	内护套厚度 Inner Sheath thickness (mm)	钢带厚度 Steel tape diameter (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx.overall diameter of cable (mm)	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	电缆载流量 Currernt rating			
											在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
						Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
3 × 25	4.5	1.4	2 × 0.5	2.5	53	3500	3035	≤0.727	≤1.20	22	140	110	140	110
3 × 35	4.5	1.4	2 × 0.5	2.6	55	3980	3329	≤0.524	≤0.868	22	170	135	165	130
3 × 50	4.5	1.5	2 × 0.5	2.7	58	4679	3748	≤0.387	≤0.641	22	200	155	195	150
3 × 70	4.5	1.6	2 × 0.5	2.8	61	5410	4107	≤0.268	≤0.443	22	250	190	240	185
3 × 95	4.5	1.6	2 × 0.5	3.0	66	6567	4799	≤0.193	≤0.320	22	305	235	290	225
3 × 120	4.5	1.7	2 × 0.5	3.1	70	7541	5308	≤0.153	≤0.253	22	350	270	330	255
3 × 150	4.5	1.7	2 × 0.5	3.2	73	8674	5883	≤0.124	≤0.206	22	395	305	365	285
3 × 185	4.5	1.8	2 × 0.5	3.3	77	9991	6549	≤0.0991	≤0.164	22	450	350	415	320
3 × 240	4.5	1.9	2 × 0.8	3.5	84	11887	8421	≤0.0754	≤0.125	22	525	410	480	375
3 × 300	4.5	2.0	2 × 0.8	3.7	89	14974	9392	≤0.0601	≤0.100	22	595	470	540	425

YJLV22、YJV22-12/20kV 交联电力电缆

表 11
table 11

导线标称截面 NominalCross sectionalarea ofconductor (mm^2)	绝缘厚度 Insulation thickness (mm)	内护套厚度 Inner Sheath thickness (mm)	钢带厚度 Steel tape diameter (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx.overall diameter ofcable (mm)	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	电缆载流量 Currernt rating			
											在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
						Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
3 × 35	5.5	1.5	2 × 0.5	2.8	63	4840	4189	≤0.524	≤0.868	30	175	135	165	130
3 × 50	5.5	1.6	2 × 0.5	2.9	66	5463	4532	≤0.387	≤0.641	30	205	160	195	150
3 × 70	5.5	1.6	2 × 0.5	3.0	69	6346	5044	≤0.268	≤0.443	30	255	200	240	185
3 × 95	5.5	1.7	2 × 0.5	3.1	74	7457	5689	≤0.193	≤0.320	30	310	240	260	225
3 × 120	5.5	1.8	2 × 0.5	3.2	77	8459	6227	≤0.153	≤0.253	30	350	275	330	255
3 × 150	5.5	1.8	2 × 0.8	3.3	82	10555	7764	≤0.124	≤0.206	30	395	310	365	285
3 × 185	5.5	1.9	2 × 0.8	3.5	86	11925	8483	≤0.0991	≤0.164	30	450	355	415	320
3 × 40	5.5	2.0	2 × 0.8	3.7	92	13959	9494	≤0.0754	≤0.125	30	525	415	430	375
3 × 300	5.5	2.1	2 × 0.8	3.8	97	16314	10731	≤0.0601	≤0.100	30	595	470	540	420

YJLV22、YJV22-26/35kV 交联电力电缆

表 12
table 12

导线标称截面 NominalCross sectional area of conductor (mm^2)	绝缘厚度 Insulation thickness (mm)	内护套厚度 Inner Sheath thickness (mm)	钢带厚度 Steel tape diameter (mm)	护套厚度 Sheath thickness (mm)	电缆近似外径 Approx.overall diameter of cable (mm)	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance of conductor(Ω/km)		试验电压 Testing voltage A.C.	电缆载流量 Currernt rating			
											在空气中 In air(A)		直埋土壤中 Direct in soil(A)	
						Cu	Al	Cu	Al	(kV/5min)	Cu	Al	Cu	Al
3 × 50	10.5	2.0	0.8	3.7	87	9975	9025	≤0.387	≤0.641	65	193	152	181	140
3 × 70	10.5	2.1	0.8	3.8	90	10927	9597	≤0.268	≤0.443	65	239	189	223	172
3 × 95	10.5	2.1	0.8	4.0	95	12190	10384	≤0.193	≤0.320	65	290	225	270	209
3 × 120	10.5	2.2	0.8	4.1	99	13451	11169	≤0.153	≤0.253	65	331	258	307	237
3 × 150	10.5	2.3	0.8	4.2	100	14907	12055	≤0.124	≤0.206	65	373	290	339	265
3 × 185	10.5	2.3	0.8	4.3	106	16501	12947	≤0.0991	≤0.164	65	–	–	–	–
3 × 240	10.5	2.4	0.8	4.5	112	18826	14262	≤0.0754	≤0.125	65	–	–	–	–

五、技术性能 Technology property

1. 弯曲半径：
   单芯电缆允许弯曲半径为 20(d+D) ± 5%
   多芯电缆允许弯曲半径为 15(d+D) ± 5%
   D=电缆的实际外径(mm)
   d=导体的实际直径(mm)
2. 敷设温度：
   低于 0℃敷设时必须预先加温。
3. 敷设落差：
   电缆敷设不受水平落差限制。

1. Bending radius:
   Bending radius of single core cable is 20(d+D) ± 5%
   Bending radius of multi-core cableis 15(d+D) ± 5%
   D=Actual outer diameter of cable sample(mm)
   d=Actual diameter of the conductor(mm)
2. Installation temperature
   It should be heated where ambient temperature is below 0℃
leverdifference of cable installation:
3. Not restricted by the difference of level along the route.

六、不同环境温度下的载流量修正系数

Conversion factors of current rating for ambient temperature

工作温度 Operating temperature (℃)	空气温度 Air temperature									
	15	10	15	20	25	30	35	40	45	50
	1.30	1.26	1.22	1.18	1.44	1.09	1.04	1.0	0.94	0.89
	土壤温度 Soil temperature									
	5	10	15	20	25	30	35			
	1.44	1.11	1.07	1.04	1.00	0.96	0.92			

<< 02

聚氯乙烯绝缘电力电缆

PVC INSULATED ELECTRIC CABLE

打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

聚氯乙烯绝缘电力电缆
PVC insulated electric cable

一、 用途 Usage

本产品适用于交流 50Hz，额定电压 0.6/1kV 的线路中，供输配电能之用。

The cable is used as power distribution and transmission line at rated voltage 0.6/1kV which can be fixed installed.

二、使用特性

1) 电缆导体的最高额定温度为 70℃。

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 160℃。

3) 敷设电缆时的环境温度不低于 0℃，最小弯曲半径应不小于电缆外径的 10 倍。

1) The long-time working temperature of cable should not be higher than70℃.

2) When core is in short-circrit (max 5s) the temperature should not exceed 160℃.

3) While installation the ambient temperaure should not be lower than0 ℃, and the bending radius should not be less than 10 tines of outer diameter of cable.

三、型号、名称和使用范围(见表 1)Model,name and application(see table 1)

型号 Model	名 称 Name	适用范围 Main application
VV VLV	铜芯或铝芯聚氯乙烯绝缘聚氯乙烯护套电力电缆 PVC insulated PVC sheathed power cable	敷设在室内、隧道及管道中，电缆不能承受压力和机械外力作用 for laying in doors,in ducts and in tunnels,but unable to bear pulling force and pressure
VV22 VLV22	铜芯或铝芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 PVC insulated steel tape armoured PVC sheathed power cable	敷设在室内、隧道及直埋土壤中，电缆能承受一定压力和其他外力作用 for laying in doors,in tunnel and direct in ground,able to bear pulling force and pressure
VV32 VLV32	铜芯或铝芯聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 PVC insulated fine steel tape armoured PVC sheathed power cable	敷设在室内、矿井中，水中，电缆能承受相当的拉力 for laying in doors wells and under water,able to bear pulling force and pressure.
VV42 VLV42	铜芯或铝芯聚氯乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 PVC insulated steel wire armoured PVC sheathed power cable	敷设在竖井，水下等垂直场合，能承受相当的轴向拉力 for laying down wills and under water,able to bear pulling force and pressure.
ZR-VV ZR-VLV	铜芯或铝芯聚氯乙烯绝缘聚氯乙烯护套阻燃电力电缆 PVC insulated PVC sheathed flame retardant power cable	敷设在室内、隧道及管道中，电缆不能承受压力和机械外力作用 for laying in doors,in ducts and in tunnels,but unable to bear pulling force and pressure
ZR-VV22 ZR-VLV22	铜芯或铝芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套阻燃电力电缆 PVC insulated steel tape armoured PVC sheathed flame retardant power cable	敷设在室内、隧道及直埋土壤中，电缆能承受一定压力和其他外力作用 for laying in doors,in tunnel and direct in ground,able to bear pulling force and pressure
ZR-VV32 ZR-VLV32	铜芯或铝芯聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套阻燃电力电缆 PVC insulated fine steel tape armoured PVC sheathed flame retardant power cable	敷设在室内、矿井中，水中，电缆能承受相当的拉力 for laying in doors wells and under water,able to bear pulling force and pressure.
ZR-VV42 ZR-VLV42	铜芯或铝芯聚氯乙烯绝缘粗钢丝铠装聚氯乙烯护套阻燃电力电缆 PVC insulated steel wire armoured PVC sheathed flame retardant power cable	敷设在竖井，水下等垂直场合，能承受相当的轴向拉力 for laying down wills and under water,able to bear pulling force and pressure.

电缆结构尺寸 Construction

VV,VLV,ZCVV,ZCVLV

0.6/1kV PVC 绝缘 PVC 护套阻燃或非阻燃电力电缆

0.6/1kV PVC Insulated PVC Sheathed Flame Retardant and Non-flame Retardant power Cable

(1 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance		试验电压 Testing voltage A.C.
					Cu	Al	20℃ Cu	20℃ Al	
mm^2		mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	(kV/5min)
1 × 1.5	1	0.8	1.4	6.1	50.7	41.3	12.1	–	3.5
1 × 2.5	1	0.8	1.4	6.5	63.5	47.9	7.41	12.1	3.5
1 × 4	1	1.0	1.4	7.4	87.7	63.0	4.61	7.41	3.5
1 × 6	1	1.0	1.4	7.9	111.0	75.9	3.08	4.60	3.5
1 × 10	7	1.0	1.4	9.2	166.6	93.0	1.83	3.02	3.5
1 × 16	7	1.0	1.4	10.3	233.3	132.2	1.15	1.91	3.5
1 × 25	7	1.2	1.4	12.0	344.9	185.4	0.727	1.20	3.5
1 × 35	7	1.2	1.4	13.2	449.8	228.7	0.524	0.868	3.5
1 × 50	19	1.4	1.4	14.9	590.5	289.8	0.387	0.641	3.5
1 × 70	19	1.4	1.4	16.7	807.3	374.2	0.268	0.443	3.5
1 × 95	19	1.6	1.5	19.3	1102.0	501.4	0.193	0.320	3.5
1 × 120	37	1.6	1.5	20.9	1349.0	590.3	0.153	0.253	3.5
1 × 150	37	1.8	1.6	23.1	1654.0	721.3	0.124	0.206	3.5
1 × 185	37	2.0	1.7	25.6	2060.0	891.6	0.0991	0.164	3.5
1 × 240	61	2.2	1.8	28.8	2651.0	1114.0	0.0754	0.125	3.5
1 × 300	61	2.4	1.9	31.9	3323.0	1396.0	0.0601	0.100	3.5
1 × 400	61	2.6	2.0	35.5	4205.0	1742.0	0.0470	0.0778	3.5
1 × 500	61	2.8	2.1	39.7	5359.0	2128.0	0.0366	0.0605	3.5
1 × 630	91	2.8	2.2	43.7	6707.0	2605.0	0.0283	0.0469	3.5

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance		试验电压 Testing voltage A.C.
					Cu	Al	20℃ Cu	20℃ Al	
mm^2		mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	(kV/5min)
2 × 1.5	1	0.8	1.8	10.5	119	100	12.1		3.5
2 × 2.5	1	0.8	1.8	11.3	150	118	7.41	12.1	3.5
2 × 4	1	1.0	1.8	13.1	210	160	4.61	7.41	3.5
2 × 6	1	1.0	1.8	14.1	264	192	3.08	4.61	3.5
2 × 10	7	1.0	1.8	16.7	393	242	1.83	3.02	3.5
2 × 16	7	1.0	1.8	18.8	541	334	1.15	1.91	3.5
2 × 25	7	1.2	1.8	22.2	794	469	0.727	1.20	3.5
2 × 35	7	1.2	1.8	24.5	1037	585	0.524	0.868	3.5
2 × 50	19	1.4	1.8	21.8	1227	620	0.387	0.641	3.5
2 × 70	19	1.4	1.9	24.7	1650	747	0.268	0.443	3.5
2 × 95	19	1.6	2.0	29.2	2213	988	0.193	0.320	3.5
2 × 120	19	1.6	2.1	31.3	2733	1186	0.153	0.253	3.5
2 × 150	37	1.8	2.2	34.7	3396	1462	0.124	0.206	3.5
2 × 185	37	2.0	2.4	37.9	3943	1668	0.0991	0.164	3.5

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance		试验电压 Testing voltage A.C.
					Cu	Al	20℃ Cu	20℃ Al	
mm^2		mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	(kV/5min)
3 × 1.5	1	0.8	1.8	10.9	142.0	113.0	12.1		3.5
3 × 2.5	1	0.8	1.8	11.8	187.0	139.0	7.41	12.1	3.5
3 × 4	1	1.0	1.8	13.7	265.0	189.0	4.61	7.41	3.5
3 × 6	1	1.0	1.8	14.8	335.0	227.0	3.08	4.61	3.5
3 × 10	7	1.0	1.8	17.6	514.0	290.0	1.83	3.02	3.5
3 × 16	7	1.0	1.8	19.9	728.0	419.0	1.15	1.91	3.5
3 × 25	7	1.2	1.8	23.6	1084.0	596.0	0.727	1.20	3.5
3 × 35	7	1.2	1.8	26.1	1422.0	745.0	0.524	0.868	3.5
3 × 50	19	1.4	1.8	26.5	1801.0	834.0	0.378	0.641	3.5
3 × 70	19	1.4	2.0	28.8	2415.0	1061.0	0.268	0.443	3.5
3 × 95	19	1.6	2.1	33.6	3205.0	1418.0	0.193	0.320	3.5
3 × 120	19	1.6	2.2	37.1	4037.0	1716.0	0.153	0.253	3.5
3 × 150	37	1.8	2.3	41.9	5028.0	2127.0	0.125	0.206	3.5
3 × 185	37	2.0	2.5	45.9	6180.0	2602.0	0.0991	0.164	3.5
3 × 240	37	2.2	2.7	51.8	7949.0	3308.0	0.0754	0.125	3.5
3 × 300	37	2.4	2.9	55.3	9780.0	3979.0	0.0601	0.100	3.5

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance		试验电压 Testing voltage A.C.
					Cu	Al	20℃ Cu	20℃ Al	
mm^2		mm	mm	mm	kg/km	kg/km	20℃ Cu	20℃ Al	(kV/5min)
4 × 2.5	1	0.8	1.8	12.7	232.0	169.0	7.41	12.1	3.5
4 × 4	1	1.0	1.8	14.9	322.0	221.0	4.61	7.41	3.5
4 × 6	1	1.0	1.8	16.1	422.0	271.0	3.08	4.61	3.5
4 × 10	7	1.0	1.8	19.2	649.0	388.0	1.83	3.02	3.5
4 × 16	7	1.0	1.8	21.7	922.0	509.0	1.15	1.91	3.5
4 × 25	7	1.2	1.8	25.9	1373.0	722.0	0.727	1.20	3.5
4 × 35	7	1.2	1.8	28.7	1802.0	899.0	0.524	0.868	3.5
4 × 50	19	1.4	1.9	30.4	2380.0	1091.0	0.387	0.641	3.5
4 × 70	19	1.4	2.1	33.9	3202.0	1398.0	0.268	0.443	3.5
4 × 95	19	1.6	2.2	39.7	4315.0	1866.0	0.193	0.320	3.5
4 × 120	19	1.6	2.4	44.2	5359.0	2265.0	0.153	0.253	3.5
4 × 150	37	1.8	2.5	48.7	6679.0	2811.0	0.124	0.206	3.5
4 × 185	37	2.0	2.7	53.5	8190.0	3420.0	0.0991	0.164	3.5
4 × 240	37	2.2	2.9	55.4	10494.0	4305.0	0.0754	0.125	3.5
4 × 300	37	2.4	3.1	63.5	12523.0	5310.0	0.0601	0.1	3.5

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance		试验电压 Testing voltage A.C.
					Cu	Al	20℃ Cu	20℃ Al	
mm^2		mm	mm	mm	kg/km	kg/km	20℃ Cu	20℃ Al	(kV/5min)
5 × 2.5	1	0.8	1.8	13.6	272.0	193.0	7.41	12.1	3.5
5 × 4	1	1.0	1.8	16.1	394.0	268.0	4.61	7.41	3.5
5 × 6	1	1.0	1.8	17.7	509.0	324.0	3.08	4.61	3.5
5 × 10	7	1.0	1.8	21.0	792.0	461.0	1.83	3.02	3.5
5 × 16	7	1.0	1.8	23.8	1124.0	608.1	1.15	1.91	3.5
5 × 25	7	1.2	1.8	28.7	1696.0	881.0	0.727	1.20	3.5
5 × 35	7	1.2	1.9	32.0	2241.0	1113.0	0.524	0.868	3.5
5 × 50	19	1.4	2.1	37.4	3158.0	1541.0	0.387	0.641	3.5
5 × 70	19	1.4	2.2	41.7	4236.0	1973.0	0.268	0.443	3.5
5 × 95	19	1.6	2.4	48.1	5685.0	2614.0	0.193	0.320	3.5
5 × 120	19	1.6	2.5	53.0	7662.0	3183.0	0.153	0.253	3.5
5 × 150	37	1.8	2.7	58.6	8743.0	3580.0	0.124	0.206	3.5
5 × 185	37	2.0	2.9	65.1	10801.0	4767.0	0.0991	0.164	3.5
5 × 240	37	2.2	3.1	72.1	13194.0	5461.0	0.0754	0.125	3.5
5 × 300	37	2.4	3.3	82.0	17027.0	7386.0	0.0601	0.1	3.5

(3+1 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor		绝缘厚度 Insulation thickness		护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance				试验电压 Testing voltage A.C.
							Cu	Al	20℃ Cu		20℃ Al		
mm^2	相线 Phase	零线 Zero	mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	Ω.km	Ω.km	(kV/5min)
3 × 4+1 × 2.5	1	1	1.0	0.8	1.8	14.3	254.0	211.0	4.61	7.41	7.41	12.1	3.5
3 × 6+1 × 4	1	1	1.0	1.0	1.8	15.8	400.0	265.0	3.08	4.61	4.61	7.41	3.5
3 × 10+1 × 6	7	1	1.0	1.0	1.8	18.5	595.0	334.0	1.83	3.08	3.02	4.61	3.5
3 × 16+1 × 10	7	7	1.0	1.0	1.8	21.1	853.0	467.0	1.15	1.83	1.91	3.02	3.5
3 × 25+1 × 16	7	7	1.2	1.0	1.8	24.9	1267.0	671.0	0.727	1.15	1.20	1.91	3.5
3 × 35+1 × 16	7	7	1.2	1.0	1.8	27.1	1591.0	806.0	0.524	1.15	0.868	1.91	3.5
3 × 50+1 × 25	19	7	1.4	1.2	1.9	30.4	2124.0	996.0	0.387	0.727	0.641	1.20	3.5
3 × 70+1 × 35	19	7	1.4	1.2	2.0	33.9	2851.0	1271.0	0.268	0.524	0.443	0.868	3.5
3 × 95+1 × 50	19	19	1.6	1.4	2.2	39.5	3844.0	1684.0	0.193	0.387	0.320	0.641	3.5
3 × 120+1 × 70	19	19	1.6	1.4	2.3	44.0	4833.0	2060.0	0.153	0.268	0.253	0.443	3.5
3 × 150+1 × 70	37	19	1.8	1.4	2.4	48.5	5841.0	2488.0	0.124	0.268	0.206	0.443	3.5
3 × 185+1 × 95	37	19	2.0	1.6	2.6	53.3	7246.0	3056.0	0.0991	0.193	0.164	0.32	3.5
3 × 240+1 × 120	37	37	2.2	1.6	2.8	55.0	9216.0	3801.0	0.0754	0.153	0.125	0.253	3.5
3 × 300+1 × 150	37	37	2.4	1.8	3.0	63.1	11149	4807	0.0601	0.124	0.1	0.206	3.5

(3+2 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor		绝缘厚度 Insulation thickness		护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance				试验电压 Testing voltage A.C.
							Cu	Al	20℃ Cu		20℃ Al		
mm^2	相线 Phase	零线 Zero	mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	Ω.km	Ω.km	(kV/5min)
3 × 4+2 × 2.5	1	1	1.0	0.8	1.8	15.2	345.0	238.0	4.61	7.41	7.41	12.1	3.5
3 × 6+2 × 4	1	1	1.0	1.0	1.8	17.1	463.0	288.0	3.08	4.61	4.61	7.41	3.5
3 × 10+2 × 6	7	1	1.0	1.0	1.8	19.7	680.0	407.0	1.83	3.08	3.02	4.61	3.5
3 × 16+2 × 10	7	7	1.0	1.0	1.8	22.7	990.0	552.0	1.15	1.83	1.91	3.02	3.5
3 × 25+2 × 16	7	7	1.2	1.0	1.8	26.7	1468.0	773.0	0.727	1.15	1.20	1.91	3.5
3 × 35+2 × 16	7	7	1.2	1.0	1.8	29.0	1791.0	907.0	0.524	1.15	0.868	1.91	3.5
3 × 50+2 × 25	19	7	1.4	1.2	2.0	34.4	2573.0	1284.0	0.387	0.727	0.641	1.20	3.5
3 × 70+2 × 35	19	7	1.4	1.2	2.1	38.7	3464.0	1637.0	0.268	0.524	0.443	0.868	3.5
3 × 95+2 × 50	19	19	1.6	1.4	2.3	44.4	4697.0	2207.0	0.193	0.387	0.320	0.641	3.5
3 × 120+2 × 70	19	19	1.6	1.4	2.4	49.0	5935.0	2673.0	0.153	0.268	0.253	0.443	3.5
3 × 150+2 × 70	37	19	1.8	1.4	2.5	52.9	5968.0	3153.0	0.124	0.268	0.206	0.443	3.5
3 × 185+2 × 95	37	19	2.0	1.6	2.7	59.3	8554.0	3942.0	0.0991	0.193	0.164	0.32	3.5
3 × 240+2 × 120	37	37	2.2	1.6	2.9	66.6	11184.0	4978.0	0.0754	0.153	0.125	0.253	3.5
3 × 300+2 × 150	37	37	2.4	1.8	3.1	72.8	13538	5889	0.0601	0.124	0.1	0.0206	3.5

(4+1 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor		绝缘厚度 Insulation thickness		护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance				试验电压 Testing voltage A.C.
							Cu	Al	20℃ Cu		20℃ Al		
mm^2	相线 Phase	零线 Zero	mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	Ω.km	Ω.km	(kV/5min)
4 × 4+1 × 2.5	1	1	1.0	0.8	1.8	15.6	358.0	251.0	4.61	7.41	7.41	12.1	3.5
4 × 6+1 × 4	1	1	1.0	1.0	1.8	17.4	493.0	317.0	3.08	4.61	4.61	7.41	3.5
4 × 10+1 × 6	7	1	1.0	1.0	1.8	20.3	733.0	347.0	1.83	3.08	3.02	4.61	3.5
4 × 16+1 × 10	7	7	1.0	1.0	1.8	23.3	1118.0	588.0	1.15	1.83	1.91	3.02	3.5
4 × 25+1 × 16	7	7	1.2	1.0	1.8	27.6	1662.0	527.0	0.727	1.15	1.20	1.91	3.5
4 × 35+1 × 16	7	7	1.2	1.0	1.8	30.3	2046.0	1021.0	0.524	1.15	0.868	1.91	3.5
4 × 50+1 × 25	19	7	1.4	1.2	2.0	35.8	2820.0	1395.0	0.387	0.727	0.641	1.20	3.5
4 × 70+1 × 35	19	7	1.4	1.2	2.1	39.9	3782.0	1787.0	0.268	0.524	0.443	0.868	3.5
4 × 95+1 × 50	19	19	1.6	1.4	2.3	46.0	5088.0	2365.0	0.193	0.387	0.320	0.641	3.5
4 × 120+1 × 70	19	19	1.6	1.4	2.5	51.0	6394.0	2911.0	0.153	0.268	0.253	0.443	3.5
4 × 150+1 × 70	37	19	1.8	1.4	2.6	55.4	7725.0	3482.0	0.124	0.268	0.206	0.443	3.5
4 × 185+1 × 95	37	19	2.0	1.6	2.8	61.9	9894.0	4607.0	0.0991	0.193	0.164	0.32	3.5
4 × 240+1 × 120	37	37	2.2	1.6	3.0	69.7	12306.0	5466.0	0.0754	0.153	0.125	0.253	3.5
4 × 300+1 × 150	37	37	2.4	1.8	3.2	72.0	14652	6258	0.0601	0.124	0.1	0.206	3.5

VV22, VLV22, ZCVV22, ZCVLV22

0.6/1kV PVC 绝缘钢带铠装 PVC 护套阻燃或非阻燃电力电缆

0.6/1kV PVC Insulated steel Armoured PVC Sheathed Flame Retardant and Non-flame Retardant power Cable

(1 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	钢带厚度 Steel strip thickness	外护套厚度 Outer sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance		试验电压 Testing voltage A.C.
						Cu	Al	20℃ Cu	20℃ Cu	
mm^2		mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	(kV/5min)
1 × 10	7	1.0	2 × 0.5	1.4	13.6	348	265	1.83	3.02	3.5
1 × 16	7	1.0	2 × 0.5	1.4	14.6	432.0	331.0	1.15	1.91	3.5
1 × 25	7	1.2	2 × 0.5	1.4	16.4	574.0	415.0	0.727	1.20	3.5
1 × 35	7	1.2	2 × 0.5	1.5	17.5	699.0	478.0	0.524	0.868	3.5
1 × 50	19	1.4	2 × 0.5	1.5	19.3	870.0	569.0	0.387	0.641	3.5
1 × 70	19	1.4	2 × 0.5	1.6	21.1	1118.0	685.0	0.268	0.443	3.5
1 × 95	19	1.6	2 × 0.5	1.6	23.4	1444.0	844.0	0.193	0.320	3.5
1 × 120	37	1.6	2 × 0.5	1.7	25.0	1719.0	960.0	0.153	0.253	3.5
1 × 150	37	1.8	2 × 0.5	1.7	27.0	2046.0	113.0	0.124	0.206	3.5
1 × 185	37	2.0	2 × 0.5	1.8	30.7	2672.0	1503.0	0.0991	0.164	3.5
1 × 240	61	2.2	2 × 0.5	1.9	33.3	3353.0	1816.0	0.754	0.125	3.5
1 × 300	61	2.4	2 × 0.5	2.0	36.4	4072.0	2145.0	0.0601	0.100	3.5
1 × 400	61	2.6	2 × 0.5	2.1	40.1	5033.0	2570.0	0.0470	0.0778	3.5
1 × 500	61	2.8	2 × 0.5	2.2	44.1	6277.0	3099.0	0.0366	0.0605	3.5
1 × 630	91	2.8	2 × 0.5	2.3	48.7	7746.0	3674.0	0.0283	0.0469	3.5

(2 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	钢带厚度 Steel tape thick	外护套厚度 Sheath thick	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance		试验电压 Testing voltage A.C.
						Cu	Al	20℃ Cu	20℃ Cu	
mm^2		mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	(kV/5min)
2 × 4	1	1.0	2 × 0.2	1.8	13.1	210	160	4.61	7.41	3.5
2 × 6	1	1.0	2 × 0.2	1.8	14.1	264	192	3.08	4.61	3.5
2 ×10	7	1.0	2 × 0.2	1.8	16.7	393	242	1.83	3.02	3.5
2 ×16	7	1.0	2 × 0.2	1.8	18.8	541	334	1.15	1.91	3.5
2 × 25	7	1.2	2 × 0.2	1.8	22.2	794	469	0.27	1.20	3.5
2 ×35	7	1.2	2 × 0.2	1.8	24.5	1037	585	0.524	0.868	3.5
2 ×50	19	1.4	2 × 0.2	1.8	21.8	1227	610	0.387	0.641	3.5
2 ×70	19	1.4	2 × 0.2	1.9	24.7	1650	747	0.268	0.443	3.5
2 × 95	19	1.6	2 × 0.5	2.1	29.2	2213	988	0.193	0.320	3.5
2 × 120	19	1.6	2 × 0.5	2.2	31.3	2733	1186	0.153	0.253	3.5
2 ×150	37	1.8	2 × 0.5	2.4	34.7	3396	1462	0.124	0.206	3.5
2 ×185	37	2.0	2 × 0.5	2.5	39.2	4112	1726	0.0991	0.164	3.5
2 ×240	37	2.2	2 × 0.5	2.7	59.1	6923	3849	0.0754	0.125	3.5
2 ×300	37	2.4	2 × 0.5	2.8	65.0	8452	4595	0.0601	0.100	3.5

(3 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	钢带厚度 Steel tape thick	外护套厚度 Sheath thick	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻		试验电压 Testing voltage A.C.
						Cu	Al	20℃ Cu	20℃ Cu	
mm^2		mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	(kV/5min)
3 × 4	1	1.0	2 × 0.2	1.8	17.3	489	414	4.61	7.41	3.5
3 × 6	1	1.0	2 × 0.2	1.8	18.4	577	472	3.08	4.61	3.5
3 ×10	7	1.0	2 × 0.2	1.8	21.2	800	559	1.83	3.02	3.5
3 ×16	7	1.0	2 × 0.2	1.8	23.5	1050	740	1.15	1.91	3.5
3 × 25	7	1.2	2 × 0.2	1.8	27.2	1465	976	0.127	1.20	3.5
3 × 35	7	1.2	2 × 0.2	1.8	30.7	2149	1372	0.524	0.868	3.5
3 × 50	19	1.4	2 × 0.2	1.9	31.3	2453	1486	0.387	0.641	3.5
3 × 70	19	1.4	2 × 0.2	2.0	33.6	3116	1763	0.268	0.443	3.5
3 × 95	19	1.6	2 × 0.5	2.2	38.3	4053	2216	0.193	0.320	3.5
3 × 120	19	1.6	2 × 0.5	2.3	41.9	4930	2609	0.153	0.253	3.5
3 × 150	37	1.8	2 × 0.5	2.5	47.1	6075	3174	0.124	0.206	3.5
3 × 185	37	2.0	2 × 0.5	2.6	50.9	7299	3721	0.0991	0.164	3.5
3 × 240	37	2.2	2 × 0.5	2.8	57.0	9213	4590	0.0754	0.125	3.5
3 × 300	37	2.4	2 × 0.5	3.0	61.1	11185	5438	0.0601	0.100	3.5

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	钢带厚度 Steel tape thick	外护套厚度 Sheath thick	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻	
						Cu	Al	20℃ Cu	20℃ A
mm^2	mm	mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km
5 × 2.5	1	0.8	2 × 0.2	1.8	17.3	488	409	7.41	12.1
5 × 4	1	1.0	2 × 0.2	1.8	19.7	644	518	4.61	7.41
5 × 6	7	1.0	2 × 0.2	1.8	21.3	790	605	3.08	4.61
5 × 10	7	1.0	2 × 0.2	1.8	24.6	1110	779	1.83	3.02
5 × 16	7	1.0	2 × 0.2	1.8	27.4	1485	970	1.15	1.91
5 × 25	7	1.2	2 × 0.2	1.8	33.3	2339	1525	0.727	1.20
5 × 35	7	1.2	2 × 0.2	2.0	36.6	2953	1822	0.524	0.868
5 × 50	19	1.4	2 × 0.5	2.2	41.6	3975	2392	0.387	0.641
5 × 70	19	1.6	2 × 0.5	2.3	45.5	5125	2909	0.268	0.443
5 × 95	19	1.6	2 × 0.5	2.5	52.1	6798	3790	0.193	0.320
5 × 120	19	1.6	2 × 0.5	2.6	57.3	8217	4418	0.153	0.253
5 × 150	37	1.8	2 × 0.5	2.8	63.1	10030	5280	0.124	0.206
5 × 185	37	2.0	2 × 0.5	3.0	69.9	12275	6418	0.0991	0.164
5 × 240	37	2.2	2 × 0.5	3.2	77.1	15077	7343	0.0754	0.125
5 × 300	37	2.4	2 × 0.5	3.2	86.5	18214	8764	0.0601	0.100

(4 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor	绝缘厚度 Insulation thickness	钢带厚度 Steel tape thick	外护套厚度 Sheath thick	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻		试验电压 Testing voltage A.C.
						Cu	Al	20℃ Cu	20℃ Al	
mm^2		mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	(kV/5min)
4 × 4	1	1.0	2 × 0.2	1.8	18.5	565	464	4.61	7.41	3.5
4 × 6	1	1.0	2 × 0.2	1.8	19.7	685	533	3.08	4.61	3.5
4 ×10	7	1.0	2 × 0.2	1.8	22.8	960	699	1.83	3.02	3.5
4 ×16	7	1.0	2 × 0.2	1.8	25.3	1273	851	1.15	1.91	3.5
4 × 25	7	1.2	2 × 0.2	1.8	30.5	1998	1347	0.27	1.20	3.5
4 ×35	7	1.2	2 × 0.2	1.9	33.5	2505	1602	0.524	0.868	3.5
4 ×50	19	1.4	2 × 0.2	2.0	35.2	3122	1832	0.387	0.641	3.5
4 ×70	19	1.4	2 × 0.5	2.2	38.7	4025	2220	0.268	0.443	3.5
4 × 95	19	1.6	2 × 0.5	2.4	44.7	5291	2842	0.193	0.320	3.5
4 × 120	19	1.6	2 × 0.5	2.5	49.4	6464	3370	0.153	0.253	3.5
4 × 150	37	1.8	2 × 0.5	2.6	53.7	7866	3998	0.124	0.206	3.5
4 × 185	37	2.0	2 × 0.5	2.8	58.9	9542	4772	0.0991	0.164	3.5
4 × 240	37	2.2	2 × 0.5	3.0	61.0	11916	5727	0.0754	0.125	3.5
4 × 300	37	2.4	2 × 0.5	3.2	67.0	14118	6558	0.0470	0.0778	3.5

(3+1 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor		绝缘厚度 Insulation thickness		钢带厚度 Steel tape thick	护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance				试验电压 Testing voltage A.C.
								Cu	Al	20℃ Cu		20℃ Al		
mm^2	相线 Phase	零线 Zero	mm	mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	Ω.km	Ω.km	(kV/5min)
3 × 4+1 × 2.5	1	1	1.0	0.8	2 × 0.2	1.8	17.9	538.0	446.0	4.61	7.41	7.41	12.1	3.5
3 × 6+1 × 4	1	1	1.0	1.0	2 × 0.2	1.8	19.5	657.0	524.0	3.08	4.61	4.61	7.41	3.5
3 × 10+1 × 6	7	1	1.0	1.0	2 × 0.2	1.8	22.1	894.0	619.0	1.83	3.08	3.02	4.61	3.5
3 × 16+1 × 10	7	7	1.0	1.0	2 × 0.2	1.8	24.7	1194.0	804.0	1.15	1.83	1.91	3.02	3.5
3 × 25+1 × 16	7	7	1.2	1.0	2 × 0.2	1.8	28.5	1668.0	1072.0	0.727	1.15	1.20	1.91	3.5
3 × 35+1 × 16	7	7	1.2	1.0	2 × 0.2	1.8	31.7	2243.0	1458.0	0.524	1.15	0.868	1.91	3.5
3 × 50+1 × 25	19	7	1.4	1.2	2 × 0.2	1.9	35.0	2852.0	1723.0	0.387	0.727	0.641	1.20	3.5
3 × 70 +1 × 35	19	7	1.4	1.2	2 × 0.5	2.1	38.5	3657.0	2077.0	0.268	0.524	0.443	0.868	3.5
3 × 95+1 × 50	19	19	1.6	1.4	2 × 0.5	2.3	44.3	4796.0	2636.0	0.193	0.387	0.320	0.641	3.5
3 × 120+1 × 70	19	19	1.6	1.4	2 × 0.5	2.4	49.0	5912.0	3139.0	0.153	0.268	0.253	0.443	3.5
3 × 150+1 × 70	37	19	1.8	1.4	2 × 0.5	2.5	53.5	7025.0	3673.0	0.124	0.268	0.206	0.443	3.5
3 × 185+1 × 95	37	19	2.0	1.6	2 × 0.5	2.7	58.9	8598.0	4408.0	0.0991	0.1930	0.164	0.320	3.5
3 × 240+1 × 120	37	37	2.2	1.6	2 × 0.5	2.9	60.6	10631.0	5216.0	0.0754	0.1530	0.125	0.253	3.5
3 × 300+1 × 150	37	37	2.4	1.8	2 × 0.5	3.1	65.6	12913.0	6145.0	0.0601	0.1240	0.100	0.206	3.5

(3+2 cores)

导线标称截面 Nominal Cross sectional area of conductor	导体中单线根数 Single quantity of Conductor		绝缘厚度 Insulation thickness		钢带厚度 Steel tape thick	护套厚度 Sheath thickness	电缆近似外径 Approx.overall diameter of cable	电缆近似重量 Approx.weight of cable(mm)		导线直流电阻 D.C resistance				试验电压 Testing voltage A.C.
								Cu	Al	20℃ Cu		20℃ Al		
mm^2	相线 Phase	零线 Zero	mm	mm	mm	mm	mm	kg/km	kg/km	Ω.km	Ω.km	Ω.km	Ω.km	(kV/5min)
3 × 4+2 × 2.5	1	1	1.0	0.8	2 × 0.2	1.8	18.8	580	491	4.61	7.41	7.41	12.1	3.5
3 × 6+2 × 4	1	1	1.0	1.0	2 × 0.2	1.8	20.7	728	570	3.08	4.61	4.61	7.41	3.5
3 × 10+2 × 6	7	1	1.0	1.0	2 × 0.2	1.8	23.3	973	702	1.83	3.08	3.02	4.61	3.5
3 × 16+2 × 10	7	7	1.0	1.0	2 × 0.2	1.8	26.3	1323	853	1.15	1.83	1.91	3.02	3.5
3 × 25+2 × 16	7	7	1.2	1.0	2 × 0.2	1.8	31.5	2053	1287	0.727	1.15	1.20	1.91	3.5
3 × 35+2 × 16	7	7	1.2	1.0	2 × 0.2	1.9	33.6	2406	1402	0.524	1.15	0.868	1.91	3.5
3 × 50 +2 × 25	19	7	1.4	1.2	2 × 0.2	2.0	38.4	3371	2080	0.387	0.727	0.641	1.20	3.5
3 × 70+2 × 35	19	7	1.4	1.2	2 × 0.5	2.2	42.6	4350	2542	0.268	0.524	0.443	0.868	3.5
3 × 95+2 × 50	19	19	1.6	1.4	2 × 0.5	2.4	48.5	5736	2348	0.193	0.387	0.320	0.641	3.5
3 × 120+2 × 70	19	19	1.6	1.4	2 × 0.5	2.5	53.4	7126	3897	0.153	0.268	0.253	0.443	3.5
3 × 150+2 × 70	37	19	1.8	1.4	2 × 0.5	2.6	57.2	8249	4438	0.124	0.268	0.206	0.443	3.5
3 × 185+2 × 95	37	19	2.0	1.6	2 × 0.5	2.8	63.9	10254	5441	0.0991	0.1930	0.164	0.320	3.5
3 × 240+2 × 120	37	37	2.2	1.6	2 × 0.5	3.0	71.4	12888	6689	0.0754	0.1530	0.125	0.253	3.5
3 × 300+2 × 150	37	37	2.4	1.8	2 × 0.5	3.2	79.3	15483	7948	0.0601	0.1240	0.0100	0.206	3.5

03 >>

低烟无(低)卤阻燃、耐火电线电缆

LOW-SMOKE NO(LOW)-HALOGEN FLAME RETARDATORY FIRE RESISTANCE WIRE & CABLE

打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

低烟无(低)卤阻燃、耐火电线电缆

LOW-SMOKE NO(LOW)-HALOGEN FLAME RETARDATORY FIRE RESISTANCE WIRE & CABLE

一、产品简介 Brief product introduction

低烟无(低)卤电线电缆在火焰燃烧情况下产生极少量烟雾,释放的气体不含卤(低卤)元素,无毒(低毒)。当火灾发生时,可大大减少对仪器、设备和人体的危害,因而被广泛应用于高层建筑、医院、大型图书馆、体育馆、防灾指挥调高楼、车站和民用机场、旅客候车室、重点文物保护场所以及地铁、地下商场或人口密集的公共场所。

本公司开发生产的额定电压 35KV 及以下塑料绝缘电缆电线，其使用性能不仅符合 GB/T12706-2008、GB/T5023-2008 和 GB 9330-88、DJ08-93-2002 规定要求.并且已形成系列,即阻燃型、耐火型,特别是低烟无卤(低卤)性能符合国家标准 GB/T 17650-1~21998、GB/T 17651.1~2-1998,经国家一级科技鉴定,该类产品达到同类产品的国内先进水平。

Low-smoke free-halogen flame-retardancy wire cables can produces little smoke and inno cuousgas without halogen or with little halogen when combustion.It can extremely reduce the damage to the instruments,equipment and body as the fire occurred.So,it was widely used in the crowded public concourses such as high-rise building,large-sized library,gymnasium,commanding & controlling building for guard against blast,station,civil airfield,passenger waiting room,emphases cultural relic,subway,underground shop,etc.

The using property of the rated voltage under 35KV plastics insulated cable and wire developed by our company,comply with the require-ment of GB/T 12706-2008,GB 5023-2008 and GB9330-88,DJ08-93-2002.Meanwhile,its low-smoke and free-halogen property comply withthe standard of GB/T 19650-12-1998,GB/T 17651.1~2-1998.By the national technique inquiry,this type of products reach to domestic advancedlevel.Low-smoke free-halogen flame-retardancy wire cables.

二、产品的型号、名称见表 1 The type and its specitication see Table 1

表 1 table 1

型　号 Model	名　称 Name	阻燃级别 Flame ratardancy grade
DDZ-VV DDZ-VLY DDZ-VY DDZ-VLY	低烟低卤聚氯乙烯绝缘低烟低卤聚氯乙烯/聚乙烯护套阻燃电力电缆 Low-smoke low-halogen PVC insulated low-smoke low-halogen PVC/polyethylene sheathed flame-retardancy power cables	A、B、C
DDZ-VV22 DDZ-VLV22 DDZ-VV23 DDZ-VLV23	低烟低卤聚氯乙烯绝缘钢带铠装低烟低卤聚氯乙烯/聚乙烯护套阻燃电力电缆 Low-somke low-halogen PVC insulated steel tape amored low-smoke low-halogenPVC/polyethylene sheathed flame-retardancy power cables	
DDZ-VV32 DDZ-VLV32 DDZ-VV33 DDZ-VLV33 DDZ-VV42 DDZ-VLV42 DDZ-VV43 DDZ-VLV43	低烟低卤聚氯乙烯绝缘钢丝铠装低烟低卤聚氯乙烯/聚乙烯护套阻燃电力电缆 Low-somke low-halogen PVC insulated steel thread armored low-smoke low-halogen PVC/polyethylene sheathed flame-retardancy power cables	
DDZ-YJ(F)V DDZ-YJ(F)LV	(硅烷)(辐照)交联聚乙烯绝缘低烟低卤聚氯乙烯护套阻燃电力电缆 (Irradiated)XLPE insulated low-smoke low-halogen PVC sheathed flame-retardancy power cabkes	A、B、C
DDZ-YJ(F)V22 DDZ-YJ(F)LV22	(硅烷)(辐照)交联聚乙烯绝缘钢带铠装低烟低卤聚氯乙烯护套阻燃电力电缆 (Irradiated)XLPE insulated steel tape armored low-smoke low-halogen PVC sheathed flame-retardancy power cables	
DDZ-YJ(F)V32 DDZ-YJ(F)LV32 DDZ-YJ(F)V42 DDZOYJ(F)LV43	(硅烷)(辐照)交联聚乙烯绝缘钢丝铠装低烟低卤聚氯乙烯护套阻燃电力电缆 (Irradiated)XLPE insulated steel thread armored low-smoke low-halogen PVC sheathed flame-retardancy power cables	

续表 1 table 1

型 号 Model	名 称 Name	阻燃级别 Flame ratardancygrade
DDZ-KVV DDZ-KYJ(F)V	低烟低卤聚氯乙烯/(硅烷)(辐照)交联聚乙烯绝缘低卤聚氯乙烯护套阻燃控制电缆 Low-smoke low-halogen PVC/(Irradiated)XLPE insulated lov-smoke low-halogen PVC sheathed rlame-retardancy control cables	A、B、C
DDZ-KVV22 DDZ-KYJ(F)V22	低烟低卤聚氯乙烯/(硅烷)(辐照)交联聚乙烯绝缘钢带铠装低烟低卤聚氯乙烯护套阻燃控制电缆 Low-smoke low-halogen PVC/(Irradiated)XLPE insulated steel rape armored low-smoke low-halogen PVC sheathed flame-retardancy control cables	
DDZ-KYJ(F)VP	低烟低卤聚氯乙烯/(硅烷)(辐照)交联聚乙烯绝缘铜丝纺织屏蔽低烟低卤聚氯乙烯护套阻燃控制电缆 Low-smoke low-halogen PVC/(Irradiated)XLPE insulated copper thread mesh screened low-smoke low-halogen PVC sheathed flame-retardancy control cables	
DDZ-KVVP2 DDZ-KYJ(F)VP2	低烟低卤聚乙烯/(硅烷)(辐照)交联聚乙烯绝缘钢带屏蔽低烟低卤聚氯乙烯护套阻燃控制电缆 Low-smoke low-halogen PVC(Irradiated)XLPE insulated steel tape screened low-smoke low-halogen PVC sheathed flame-retardancy control cables	
DDZ-KVV32 DDZ-KYJ(F)V32	低烟低卤聚氯乙稀/(硅烷)(辐照)交联聚乙烯绝缘铜丝铠装低烟低卤聚氯乙烯护套阻燃控制电缆 Low-smoke low-halogen PVC/(Irradiated)XLPE insulated steel thread armored low-smoke low-halogen PVC sheathed flame-retardancy control cables	
DDZ-BV DDZ-BLV	低烟低卤聚氯乙烯绝缘阻燃电线 Low-smoke low-halogen PVC insulated flame-retardancy electric wire	B、C、D
DDZ-BVV DDZ-BLVV	低烟低卤聚氯乙烯绝缘和护套阻燃电线 Low-smoke low-halogen PVCinsulated sheathed flame-retardancy electric wire	
LDDZ-BVR	低烟低卤聚氯乙烯绝缘阻燃软电线 Low-smoke low-halogen PVC insulated flame-retardancy flexible electric wire	
WDZ-YJ(F)E WDZ-YJ(F)LE WDZ-YJ(F)Y WDZ-YJ(F)LY	(硅烷)(辐照)交联聚乙稀绝缘低烟无卤阻燃聚稀烃护套电力电缆 (Irradiated)XLPE insulated low-smoke free-halogen flame-retardancy polyolefin sheathed power cables	A、B、C
WDZ-YJ(F)E23 WDZ-YJ(F)LE23 WDZ-YJ(F)Y23 WDZ-YJ(F)LY23	(硅烷)(辐照)交联聚乙烯绝缘钢带铠装低烟无卤阻燃聚烯烃护套电力电缆 (Irradiated)XLPE insulated steel tape armored low-smoke free-halogen flame-retardancy polyolefin sheathed power cables	
WDZ-YJ(F)E33 WDZ-YJ(F)LE33 WDZ-YJ(F)Y33 WDZ-YJ(F)LY33 WDZ-YJ(F)E43 WDZ-YJ(F)LE43 WDZ-YJ(F)Y43 WDZ-YJ(F)LY43	(硅烷)(辐照)交联聚乙稀绝缘钢丝铠装低烟无卤阻燃聚烯烃护套电力电缆 (Irradiated)XLPE insulated steel thread armored low-smoke free-halogen flame-retardancy polyolefin sheathed power cables	
WDZ-KYJ(F)E WDZ-KYJ(F)Y	(硅烷)(辐照)交联聚乙烯绝缘低烟无卤阻燃聚烯烃护套控制电缆 (Irradiated)XLPE insulated low-smoke free-halogen flame-retardancy polyolefin sheathed control cables	
WDZ-KYJ(F)E23 WDZ-KYJ(F)Y23	(硅烷)(辐照)交联聚乙烯绝缘钢带铠装低烟低卤阻燃聚烯轻护套控制电缆 (Irradiated)XLPE insulated steel tape armored low-smoke free-halogen flame-retardancy polyolefin sheathed control cables	A、B、C
WDZ-KYJ(F)EP WDZ-KYJ(F)YP	(硅烷)(辐照)交联聚乙烯绝缘铜丝编织屏蔽低烟无卤阻燃聚烯烃护套控制电缆 (Irradiated)XLPE insulated copper thread mesh screened low-smoke free-halogen flame-retardancy polyolefin sheathed control cables	
WDZ-KYJ(F)EP2 WDZ-KYJ(F)YP2	(硅烷)(辐照)交联聚乙烯绝缘铜带屏蔽低烟无卤阻燃聚烯烃护套控制电缆 (Irradiated)XLPE insulated copper tape screened low-smoke free-halogen flame-retardancy polyolefin sheathed control cables	

续表 3 table 3

型　号 Model	名　称 Name	阻燃级别 Flame ratadarncygrade
WDZ-KYJ(F)E33 WDZ-KYJ(F)Y33	(硅烷)(辐照)交联聚乙烯绝缘钢丝铠装低烟无卤阻燃聚烯烃护套控制电缆 (Irradiated) XLPE insulated steel thread armored low-smoke free-halogen flame-retardancy polyolefin sheathed control cables	B、C、D
WDZ-BYJ(F) WDZ-BLYJ(F) WDZ-BY WDZ-BLY	(硅烷)(辐照)交联型/非交联型低烟无卤阻燃聚烯烃绝缘电线 (Irradiated) cross-linked type/non-cross-linked type low-smoke free-halogen flame-retardancy polyolefin insulated electric wires	
WDZ-BYJ(F)E WDZ-BLYJ(F)E WDZ-BYE WDZ-BLYE	(硅烷)(辐照)交联型/非交联型低烟无卤阻燃聚烯烃绝缘低烟无卤阻燃聚烯烃护套电线 (Irradiated) cross-linked type/non-cross-linked type low-smoke free-halogen flame-retardancy polyolefin insulated low-smoke free-halogen flame-retardancy polyolefin sheathed electric wires	
WDZ-BYJ(F)R WDZ-BYR	(硅烷)(辐照)交联型/非交联型低烟无卤阻燃聚烯烃绝缘软电线 (Irradiated) cross-linked type/non-cross-linked type low-smoke free-halogen flame-retardancy polyolefin insulated flexible electric wores	
WDZN-YJ(F)E WDZN-YJ(F)Y	铜芯(硅烷)(辐照)交联聚乙烯绝缘低烟无卤阻燃聚烯烃护套耐火电力电缆 Copper core(Irradiated) XLPE insulated armored low-smoke free-halogen flame-retardancy polyolefin sheathed fire resistance power cables	A、B、C
WDZN-YJ(F)E23 WDZN-YJ(F)Y23	铜芯(硅烷)(辐照)交联聚乙烯绝缘钢带铠装低烟无卤阻燃聚烯烃护套耐火电力电缆 Copper core(Irradiated) XLPE insulated steel tape armored low-smoke free-halogen flame-retardancy polyolefin sheathed fire resistance power cables	

WDZN-YJ(F)E23 WDZN-YJ(F)Y33 WDZN-YJ(F)E43 WDZN-YJ(F)Y43	铜芯(硅烷)(辐照)交联聚乙烯绝缘钢丝铠装低烟无卤阻燃聚烯烃护套耐火电力电缆 Copper core(Irradiated) XLPE insulated steel thread armored low-smoke free-halogen flame-retardancy polyolefin sheathed fire resistance power cables	A、B、C
WDZN-KYJ(F)E WDZN-KYJ(F)Y	(硅烷)(辐照)交联聚乙烯绝缘低烟无卤阻燃聚烯烃护套耐火控制电缆 (Irradiated) XLPE insulated low-smoke free-halogen flame-retardancy polyolefin sheathed fire resistance control cables	
WDZN-KYJ(F)E23 WDZN-KYJ(F)Y23	(硅烷)(辐照)交联聚乙烯绝缘钢带铠装低烟无卤阻燃聚烯烃护套耐火控制电缆 (Irradiated) XLPE insulated low-smoke free-halogen flame-retardancy polyolefin sheathed fire resistance control cables	
WDZN-KYJ(F)EP WDZN-KYJ(F)YP	(硅烷)(辐照)交联聚乙烯绝缘铜丝编织屏蔽低烟无卤阻燃聚烯烃护套耐火控制电缆 (Irradiated) XLPE insulated copper thread mesh screened low-smoke free-halogen flame-retardancy polyolefin sheathed fire resistance control cables	
WDZN-KYJ(F)EP2 WDZN-KYJ(F)YP2	(硅烷)(辐照)交联聚乙烯绝缘铜带屏蔽低烟无卤阻燃聚烯烃护套耐火控制电缆 (Irradiated) XLPE insulated copper tape screened low-smoke free-halogen flame-retardancy polyolefin sheathed fire resistance control cables	
WDZN-KYJ(F)E33 WDZN-KYJ(F)Y33	(硅烷)(辐照)交联聚乙烯绝缘钢丝铠装低烟无卤阻燃聚烯烃护套耐火控制电缆 (Irradiated) XLPE insulated steel thread armored low-smoke free-halogen flame-retardancy polyolefin sheathed fire resistance control cables	

04 >>

合金电缆
ALLOY CABLE

打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

非铠装电缆 UNARMOURED CABLE

0.6/1KV 单芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
10	4.00	0.7	1.5	10.0	115	3.08	62	76
16	5.00	0.7	1.0	10.9	140	1.91	81	100
25	6.00	0.9	1.0	12.4	210	1.20	114	128
35	7.00	0.9	1.0	13.5	225	0.868	138	147
50	8.30	1.0	1.4	13.1	265	0.641	166	176
70	9.90	1.1	1.4	14.8	355	0.443	209	219
95	11.40	1.1	1.5	16.6	475	0.320	266	261
120	12.90	1.2	1.5	18.3	570	0.253	309	314
150	14.30	1.4	1.6	20.3	670	0.206	328	342
185	15.90	1.6	1.6	22.2	820	0.164	364	370
240	18.20	1.7	1.7	25.0	1040	0.125	418	423
300	20.40	1.8	1.8	27.6	1255	0.100	466	471
400	23.60	2.0	2.0	31.6	1475	0.0778	532	539

0.6/1KV 3 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
10	4.00	0.7	1.5	16.6	280	3.08	62	69
16	5.00	0.7	1.8	18.1	360	1.91	68	81
25	6.00	0.9	1.8	21.0	490	1.20	92	101
35	7.00	0.9	1.8	23.2	620	0.868	119	129
50	8.30	1.0	1.8	26.4	750	0.641	155	163
70	9.90	1.1	2.0	31.0	990	0.443	181	187
95	11.40	1.1	2.1	35.2	1260	0.320	233	240
120	12.90	1.2	2.2	38.9	1560	0.253	282	292
150	14.30	1.4	2.4	43.6	1960	0.206	328	342
185	15.90	1.6	2.5	48.1	2265	0.164	364	370
240	18.20	1.7	2.7	53.7	2740	0.125	418	423
300	20.40	1.8	2.9	59.3	3235	0.100	465	471
400	23.60	2.0	3.2	67.2	3610	0.0778	532	539

0.6/1KV 3+1 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
3×16+1×10	5.00	0.7	1.5	18.5	425	1.91	79	81
3×25+1×16	6.00	0.9	1.8	22.2	585	1.20	93	101
3×35+1×16	7.00	0.9	1.8	24.0	700	0.868	121	129
3×50+1×25	8.30	1.0	1.9	28.9	865	0.641	155	164
3×70+1×35	9.90	1.1	2.1	33.6	1140	0.443	181	187
3×95+1×50	11.40	1.1	2.2	37.9	1490	0.320	233	240
3×120+1×70	12.90	1.2	2.4	42.5	1840	0.253	282	291
3×150+1×70	14.30	1.4	2.5	46.9	2215	0.206	328	341
3×185+1×95	15.90	1.6	2.6	50.2	2715	0.164	362	369
3×240+1×120	18.20	1.7	2.8	55.5	3425	0.125	418	423
3×300+1×150	20.40	1.8	3.0	61.4	4420	0.100	466	470
3×400+1×185	23.60	2.0	3.2	69.4	5610	0.0778	532	539

0.6/1KV 3+2 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
3×16+2×10	5.00	0.7	1.8	22.68	531	1.91	75	79
3×25+2×16	6.00	0.9	1.8	23.70	727	1.20	88	98
3×35+2×16	7.00	0.9	1.8	25.80	842	0.868	114	124
3×50+2×25	8.30	1.0	2.0	30.70	1169	0.641	149	157
3×70+2×35	9.90	1.1	2.2	34.80	1533	0.443	174	181
3×95+2×50	11.40	1.1	2.3	40.00	1708	0.320	221	228
3×120+2×70	12.90	1.2	2.4	44.80	2127	0.253	272	278
3×150+2×70	14.30	1.4	2.6	48.10	2533	0.206	314	326
3×185+2×95	15.90	1.6	2.7	52.80	3117	0.164	347	352
3×240+2×120	18.20	1.7	2.9	58.50	4174	0.125	399	404
3×300+2×150	20.40	1.8	3.1	64.80	5100	0.100	444	448
3×400+2×185	23.60	2.0	3.4	73.10	6466	0.0778	508	514

0.6/1KV 4 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
10	4.00	0.7	1.5	16.9	347	3.08	60	67
16	5.00	0.7	1.8	19.7	448	1.91	76	79
25	6.00	0.9	1.8	23.1	614	1.20	88	98
35	7.00	0.9	1.8	25.5	759	0.868	114	124
50	8.30	1.0	2.0	31.0	968	0.641	149	157
70	9.90	1.1	2.2	36.1	1290	0.443	174	181
95	11.40	1.1	2.3	40.1	1645	0.320	221	231
120	12.90	1.2	2.4	44.5	2035	0.253	272	277
150	14.30	1.4	2.6	49.2	2520	0.206	314	326
185	15.90	1.6	2.7	53.5	3064	0.164	348	352
240	18.20	1.7	2.9	59.2	2120	0.125	399	404
300	20.40	1.8	3.1	65.4	5240	0.100	444	449
400	23.60	2.0	3.4	74.8	6465	0.0778	508	513

0.6/1KV 4+1 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
4×16+1×10	5.00	0.7	1.5	18.5	395	1.91	75	79
4×25+1×16	6.00	0.9	1.8	24.5	605	1.20	88	98
4×35+1×16	7.00	0.9	1.8	26.7	840	0.868	114	124
4×50+1×25	8.30	1.0	2.0	32.4	1160	0.641	149	157
4×70+1×35	9.90	1.1	2.3	37.2	1480	0.443	174	181
4×95+1×50	11.40	1.1	2.3	41.7	2250	0.320	221	228
4×120+1×70	12.90	1.2	2.5	46.8	2285	0.253	272	278
4×150+1×70	14.30	1.4	2.7	51.9	3210	0.206	314	326
4×185+1×95	15.90	1.6	2.8	55.8	3860	0.164	347	352
4×240+1×120	18.20	1.7	3.0	61.8	5020	0.125	399	404
4×300+1×150	20.40	1.8	3.2	68.4	5695	0.100	444	448
4×400+1×185	23.60	2.0	3.5	77.5	7200	0.0778	508	514

3.6/6KV 单芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
25	6.00	2.5	1.8	18.8	475	1.200	125	135
35	7.00	2.5	1.8	19.8	520	0.868	150	160
50	8.30	2.5	1.8	21.1	605	0.641	180	195
70	10.0	2.5	1.8	22.8	705	0.443	220	240
95	11.6	2.5	1.8	24.4	826	0.320	260	295
120	13.0	2.5	1.8	25.7	935	0.253	295	340
150	14.6	2.5	1.8	27.4	1060	0.206	335	385
185	16.2	2.5	1.9	29.1	1210	0.164	375	440
240	18.4	2.6	2.0	31.7	1440	0.125	440	520
300	20.60	2.8	2.1	34.5	1770	0.100	495	600
400	23.60	3.0	2.2	38.1	2165	0.0778	570	700
500	26.50	3.2	2.3	41.7	2560	0.0605	755	815

3.6/6KV 3 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	套护厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
25	6.00	2.5	2.2	36.9	1434	1.200	93	97
35	7.00	2.5	2.3	39.3	1644	0.868	112	117
50	8.30	2.5	2.4	42.3	1856	0.641	150	157
70	10.00	2.5	2.5	46.2	2245	0.443	175	183
95	11.60	2.5	2.6	49.7	2700	0.320	230	240
120	13.00	2.5	2.7	53.0	3085	0.253	252	263
150	14.60	2.5	2.8	56.7	3455	0.206	283	290
185	16.20	2.5	3.0	60.6	4080	0.164	303	310
240	18.40	2.6	3.1	65.9	4875	0.125	340	365
300	20.60	2.8	3.3	71.9	5705	0.100	440	415
400	23.60	3.0	3.3	77.0	6540	0.0778	450	460
500	26.50	3.2	3.3	79.0	7370	0.0605	502	505

6/6、6/10KV 单芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
25	6.00	3.4	1.8	20.6	547	1.200	125	135
35	7.00	3.4	1.8	21.6	605	0.868	150	160
50	8.30	3.4	1.8	22.9	680	0.641	180	195
70	10.00	3.4	1.8	24.6	785	0.443	220	240
95	11.60	3.4	1.8	26.1	905	0.320	260	295
120	13.00	3.4	1.9	27.8	1020	0.253	295	320
150	14.60	3.4	1.9	29.3	1150	0.206	350	370
185	16.20	3.4	2.0	31.1	1300	0.164	385	395
240	18.40	3.4	2.1	33.6	1600	0.125	440	450
300	20.60	3.4	2.1	35.8	1845	0.100	495	500
400	23.60	3.4	2.3	39.2	2222	0.0778	570	600
500	26.50	3.4	2.4	42.3	2595	0.0605	755	815

6/6、6/10KV 3 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
25	6.00	3.4	2.3	40.9	1678	1.200	100	105
35	7.00	3.4	2.4	43.3	1848	0.868	128	133
50	8.30	3.4	2.5	46.3	2160	0.641	158	163
70	10.00	3.4	2.6	50.1	2575	0.443	193	200
95	11.60	3.4	2.7	53.8	2995	0.320	230	237
120	13.00	3.4	2.8	57.0	3350	0.253	275	282
150	14.60	3.4	3.0	60.8	3910	0.206	313	320
185	16.20	3.4	3.1	64.5	4470	0.164	357	363
240	18.40	3.4	3.3	69.6	5200	0.125	423	429
300	20.60	3.4	3.4	74.5	6190	0.100	475	480
400	23.60	3.4	3.4	80.0	7189	0.0778	527	533
500	26.50	3.4	3.5	82.0	8170	0.0605	583	590

8.7/15KV 单芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
25	6.00	4.5	1.8	22.8	637	1.200	125	135
35	7.00	4.5	1.8	23.8	698	0.868	150	160
50	8.30	4.5	1.8	25.0	777	0.641	180	195
70	10.0	4.5	1.8	26.8	886	0.443	220	240
95	11.6	4.5	1.9	28.5	216	0.320	260	295
120	13.0	4.5	2.0	30.2	1136	0.253	295	320
150	14.6	4.5	2.0	31.7	1270	0.206	335	380
185	16.2	4.5	2.1	33.6	1500	0.164	375	395
240	18.4	4.5	2.1	35.8	1739	0.125	440	458
300	20.6	4.5	2.2	38.1	1991	0.100	495	520
400	23.60	4.5	2.3	41.3	2370	0.0778	570	610
500	26.50	4.5	2.4	44.4	2390	0.0605	655	815

8.7/10、8.7/15KV 3 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
25	6.00	4.5	2.5	46.2	2120	1.200	100	105
35	7.00	4.5	2.6	48.5	2320	0.868	127	133
50	8.30	4.5	2.7	51.5	2550	0.641	155	163
70	10.00	4.5	2.8	55.4	2930	0.443	193	200
95	11.60	4.5	2.9	59.1	3365	0.320	230	237
120	13.00	4.5	3.0	62.3	3860	0.253	275	282
150	14.60	4.5	3.1	65.9	4365	0.206	313	320
185	16.20	4.5	3.3	69.8	4890	0.164	355	363
240	18.40	4.5	3.4	74.7	5865	0.125	423	427
300	20.60	4.5	3.6	79.9	6670	0.100	475	482
400	23.60	4.5	3.8	86.8	7475	0.0778	525	532
500	26.50	4.5	3.8	93.0	8285	0.0605	583	590

12/200KV 单芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
35	7.00	5.5	1.8	27.0	789	0.868	120	150
50	8.30	5.5	1.8	29.0	871	0.641	180	195
70	10.00	5.5	1.9	30.0	985	0.443	220	240
95	11.60	5.5	1.9	32.0	1120	0.320	260	295
120	13.00	5.5	2.0	34.0	1244	0.253	295	340
150	14.60	5.5	2.0	35.0	1456	0.206	335	385
185	16.20	5.5	2.1	37.0	1623	0.164	375	440
240	18.40	5.5	2.1	39.0	1868	0.125	440	520
300	20.60	5.5	2.2	42.0	2126	0.100	495	600
400	23.60	5.5	2.3	45.0	2518	0.0778	570	700
500	26.50	5.5	2.4	46.0	2910	0.0605	755	815

12/20KV 3 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
35	7.00	5.5	2.7	56.0	2590	0.868	115	125
50	8.30	5.5	2.8	59.0	2880	0.641	135	145
70	10.00	5.5	2.9	63.0	3400	0.443	170	175
95	11.60	5.5	3.0	67.0	3910	0.320	205	215
120	13.00	5.5	3.1	70.0	4290	0.253	230	240
150	14.60	5.5	3.2	73.0	4755	0.206	260	265
185	16.20	5.5	3.3	77.0	5350	0.164	300	305
240	18.40	5.5	3.5	82.0	6300	0.125	350	350
300	20.60	5.5	5.5	87.0	7130	0.100	395	395
400	23.60	5.5	5.5	92.0	7960	0.0778	440	440
500	26.50	5.5	5.5	97.0	8790	0.0605	485	485

18/20、18/30KV 单芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
50	8.30	8.0	2.0	35.0	1130	0.641	180	195
70	10.0	8.0	2.0	37.0	1330	0.443	221	241
95	11.6	8.0	2.1	38.0	1482	0.320	261	281
120	13.6	8.0	2.1	40.0	1620	0.253	290	310
150	14.6	8.0	2.2	42.0	1772	0.206	330	350
185	16.2	8.0	2.2	43.0	1952	0.164	376	410
240	18.4	8.0	2.3	46.0	2207	0.125	436	450
300	20.6	8.0	2.4	48.0	2490	0.100	496	520
400	23.60	8.0	2.5	51.0	3010	0.0778	571	580
500	26.50	8.0	2.5	53.0	3532	0.0605	651	716

18/20KV 3 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
50	8.30	8.0	3.1	70.3	4210	0.641	136	146
70	10.0	8.0	3.3	74.1	4749	0.443	171	176
95	11.6	8.0	3.4	77.8	5298	0.320	207	216
120	13.6	8.0	3.5	81.0	5792	0.253	233	242
150	14.6	8.0	3.6	84.7	6403	0.206	261	266
185	16.2	8.0	3.7	88.3	7027	0.164	302	305
240	18.4	8.0	3.9	93.5	8032	0.125	351	351
300	20.6	8.0	4.0	98.4	8981	0.100	396	397
400	23.60	8.0	4.1	104.1	9221	0.0778	441	442
500	26.50	8.0	4.2	110.9	10398	0.0605	486	487

21/35KV 单芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
50	8.30	9.3	2.2	36.3	1356	0.641	181	196
70	10.0	9.3	2.2	37.9	1491	0.443	222	241
95	11.6	9.3	2.3	39.8	1650	0.320	262	291
120	13.6	9.3	2.3	41.1	1793	0.253	332	336
150	14.6	9.3	2.4	43.0	1951	0.206	350	381
185	16.2	9.3	2.4	44.5	2137	0.164	398	436
240	18.4	9.3	2.5	46.9	2408	0.125	460	512
300	20.6	9.3	2.6	49.4	2694	0.100	530	586
400	23.60	9.3	2.7	52.5	3232	0.0778	600	686
500	26.50	9.3	2.7	56.0	3770	0.0605	700	796

21/35KV 3 芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
50	8.30	9.3	3.3	76.9	4918	0.641	173	182
70	10.0	9.3	3.4	80.6	5452	0.443	218	222
95	11.6	9.3	3.6	84.4	6072	0.320	262	267
120	13.6	9.3	3.7	87.6	6596	0.253	301	302
150	14.6	9.3	3.8	91.3	7238	0.206	341	342
185	16.2	9.3	3.9	94.9	7895	0.164	389	393
240	18.4	9.3	4.1	100.1	8947	0.125	471	472
300	20.6	9.3	4.2	105.1	9940	0.100	526	527
400	23.60	9.3	4.3	115.7	10310	0.0778	629	679
500	26.50	9.3	4.4	122.4	11760	0.0605	733	734

26/35KV 单芯交联聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
50	8.30	10.5	2.3	39.7	1503	0.641	183	198
70	10.0	10.5	2.3	41.3	1647	0.443	223	243
95	11.6	10.5	2.4	43.2	1812	0.320	263	288
120	13.6	10.5	2.4	44.5	1960	0.253	298	330
150	14.6	10.5	2.5	46.4	2122	0.206	333	383
185	16.2	10.5	2.5	48.0	2311	0.164	378	438
240	18.4	10.5	2.6	50.3	2592	0.125	438	480
300	20.6	10.5	2.7	52.7	2998	0.100	498	500
400	23.60	10.5	2.8	55.9	2441	0.0778	573	588
500	26.50	10.5	2.8	60.0	2881	0.0605	653	798

0.6/1KV 单芯聚氯乙烯绝缘聚乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	套护厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
10	4.00	1.0	1.8	11.4	135	3.08	56	60
16	5.00	1.0	1.8	12.4	155	1.91	68	73
25	6.00	1.2	1.8	14.0	213	1.20	95	101
35	7.00	1.2	1.8	15.0	255	0.868	113	120
50	8.30	1.4	1.4	13.1	331	0.641	159	170
70	9.90	1.4	1.4	14.8	410	0.443	188	200
95	11.40	1.6	1.5	16.6	524	0.320	260	277
120	12.90	1.6	1.5	18.3	611	0.253	294	314
150	14.30	1.8	1.6	20.3	743	0.206	335	358
185	15.90	2.0	1.6	22.2	882	0.164	372	397
240	18.20	2.2	1.7	25.0	1103	0.125	475	507
300	20.40	2.4	1.8	27.6	1304	0.100	540	577
400	23.60	2.6	2.0	31.6	1743	0.0778	629	671

0.6/1KV 3 芯聚乙烯绝缘聚氯乙烯护套合金电力电缆

导体标称截面 mm^2	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
10	4.00	1.0	1.8	18.6	341	3.08	54	57
16	5.00	1.0	1.8	18.1	425	1.91	66	69
25	6.00	1.2	1.8	21.0	581	1.20	87	95
35	7.00	1.2	1.8	23.2	710	0.868	102	112
50	8.30	1.4	1.8	26.4	873	0.641	144	157
70	9.90	1.4	1.9	31.0	1112	0.443	170	185
95	11.40	1.6	2.1	35.2	1490	0.320	234	255
120	12.90	1.6	2.2	38.9	1766	0.253	264	288
150	14.30	1.8	2.3	43.6	2180	0.206	300	328
185	15.90	2.0	2.5	48.1	2644	0.164	333	364
240	18.20	2.2	2.7	53.7	3370	0.125	426	464
300	20.40	2.4	2.9	59.3	4040	0.100	474	527
400	23.60	2.6	3.1	67.2	4852	0.0778	560	613

0.6/1KV 3+1 芯聚氯乙烯绝缘聚乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
3×16+1×10	5.00	1.0	1.8	21.87	495	1.91	66	69
3×25+1×16	6.00	1.2	1.8	22.2	674	1.20	87	95
3×35+1×16	7.00	1.2	1.8	24.0	799	0.868	102	112
3×50+1×25	8.30	1.4	1.9	28.9	1032	0.641	144	157
3×70+1×35	9.90	1.4	2.0	33.6	1308	0.443	170	185
3×95+1×50	11.40	1.6	2.1	37.9	1730	0.320	234	255
3×120+1×70	12.90	1.6	2.3	42.5	2094	0.253	264	288
3×150+1×70	14.30	1.8	2.4	46.9	2511	0.206	300	328
3×185+1×95	15.90	2.0	2.5	50.2	3057	0.164	334	364
3×240+1×120	18.20	2.2	2.7	55.5	3856	0.125	426	464
3×300+1×150	20.40	2.4	2.9	61.4	4817	0.100	483	527
3×400+1×185	23.60	2.6	3.1	69.4	5030	0.0778	560	613

0.6/1KV 3+2 芯聚氯乙烯绝缘聚乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
3×16+2×10	5.00	1.0	1.8	21.50	618	1.91	62	64
3×25+2×16	6.00	1.2	1.8	23.70	835	1.20	81	88
3×35+2×16	7.00	1.2	1.9	25.80	973	0.868	95	104
3×50+2×25	8.30	1.4	2.1	30.70	1353	0.641	133	145
3×70+2×35	9.90	1.4	2.2	34.80	1733	0.443	157	170
3×95+2×50	11.40	1.6	2.4	40.00	2001	0.320	215	234
3×120+2×70	12.90	1.6	2.5	44.80	2407	0.253	242	263
3×150+2×70	14.30	1.8	2.7	48.10	2869	0.206	275	300
3×185+2×95	15.90	2.0	2.9	52.80	3545	0.164	305	333
3×240+2×120	18.20	2.2	3.1	58.50	4274	0.125	389	424
3×300+2×150	20.40	2.4	3.3	64.80	5017	0.100	441	481
3×400+2×185	23.60	2.6	3.5	73.10	6561	0.0778	511	559

0.6/1KV 4 芯聚氯乙烯绝缘聚乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
10	4.00	1.0	1.8	21.12	417	3.08	53	55
16	5.00	1.0	1.8	19.7	509	1.91	62	64
25	6.00	1.2	1.8	23.1	707	1.20	81	88
35	7.00	1.2	1.8	25.5	863	0.868	95	104
50	8.30	1.4	1.9	31.0	1138	0.641	133	145
70	9.90	1.4	2.1	36.1	1472	0.443	167	170
95	11.40	1.6	2.2	40.1	1928	0.320	214	234
120	12.90	1.6	2.3	44.5	2298	0.253	242	264
150	14.30	1.8	2.5	49.2	2860	0.206	275	300
185	15.90	2.0	2.7	53.5	3461	0.164	305	333
240	18.20	2.2	2.9	59.2	4245	0.125	389	424
300	20.40	2.4	3.1	65.4	4827	0.100	441	481
400	23.60	2.6	3.3	74.8	5654	0.0778	511	559

0.6/1KV 4+1 芯聚氯乙烯绝缘聚乙烯护套合金电力电缆

导体标称截面 mm²	导体直径 mm	绝缘厚度 mm	护套厚度 mm	电缆近似外径 mm	电缆近似重量 kg/km	20° C 时导体直流电阻≤ Ω/km	电缆载流量	
							在空气中	直埋土壤中
							A	A
4×16+1×10	5.00	1.0	1.8	25.06	629	1.91	62	64
4×25+1×16	6.00	1.2	1.8	24.5	880	1.20	81	88
4×35+1×16	7.00	1.2	1.8	26.7	1005	0.868	95	104
4×50+1×25	8.30	1.4	2.0	32.4	1423	0.641	133	145
4×70+1×35	9.90	1.4	2.1	37.2	1810	0.443	157	170
4×95+1×50	11.40	1.6	2.3	41.7	2085	0.320	215	234
4×120+1×70	12.90	1.6	2.5	46.8	2557	0.253	242	264
4×150+1×70	14.30	1.8	2.6	51.9	3060	0.206	275	300
4×185+1×95	15.90	2.0	2.8	55.8	3815	0.164	305	333
4×240+1×120	18.20	2.2	3.0	61.8	4819	0.125	389	424
4×300+1×150	20.40	2.4	3.2	68.4	5887	0.100	441	481
4×400+1×185	23.60	2.6	3.6	77.5	7961	0.0778	511	559

铜缆与合金电缆选型对比表

铜缆线芯截面 mm²	90℃铜芯电缆载流量 有孔桥架敷(A)	90℃铜芯电缆载流量 穿管埋地(A)	稀土高铁铝合金 电缆线芯截面 mm²	90℃铝合金 电缆载流量 有孔桥架敷(A)	90℃铝合金 电缆载流量 穿管埋地(A)
16	105	84	25	102	83
25	135	109	35	128	102
35	164	128	50	152	118
50	200	152	70	195	146
70	253	185	120	270	193
95	303	216	150	309	215
120	352	246	185	353	242
150	307	279	240	417	280
185	462	310	300	484	314

<< 05

架空电缆
AERIAL CABLE

打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

10kV 钢芯铝交联聚乙烯绝缘架空电缆
10kV steel core aluminium XLPE insulated aerial cable

一、用途

本产品适用于交流额定电压 U（Um）为 10（12）KV 的架空电力线路。
The product is used in aerial electric circuit at AC rated voltagae U(Um)=10(12)KV.

二、使用条件

1) 电缆导体的最高长期允许工作温度为 90℃
2) 敷设温度不低于-20℃。
3) 短路时（最长持续时间不超过 5 秒）导体的最高温度应不大于 250℃。
1) The long time working temperature of cable should not be higher than 90℃.
2) While installation the ambient temperature should not be lower than -20℃.
3) When core is in short circuit (max 5s) the temperature should not exceed 250℃.

三、型号规格(见表 1) Model and specification (see table 1)

表 1 table 1

型 号 Model	截面(铝/钢)mm^2 Section aluminium/steel	名 称 Name	主要用途 Main usage
JKLGYJ-10	10/2-500/65	10kV 钢芯铝交联聚乙烯绝缘架空电缆 10kV steel core aluminium XLPE insulation aerial cable	适用于 10KV 架空电力线路固定敷设。电缆架设时,应考虑电缆和树木保持一定距离,电缆运行时,允许电缆和树木频繁接触。 It is applicable to fix and lay down 10KV overhead power line. To extend cables, it shall be taken into consideration to keep a certain distane between cable and tree. And it is permitted to have frequent contacts between cable and tree while the cable is in operation.

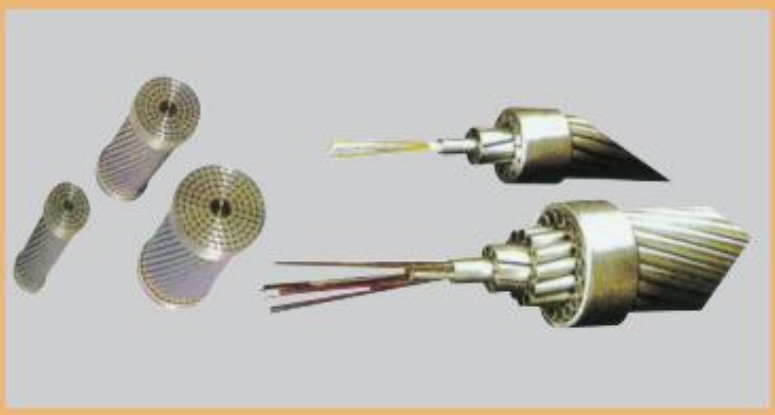
四、结构尺寸、技术性能(见表 2) Structure size and tcchnology property (see table 2)

表 2 table 2

标称截面铝/钢 Nominal sectional aluminium/steel (mm²)	结构(根数/直径) Strucrure pair no./diameter (mm)		紧压外径参数 Out diameter reference (mm)	内屏蔽厚度 Inner shield thickness (mm)	绝缘厚度 Thickness (mm)	电缆外径参考 Out diameter (mm)	导体最大电阻 20℃ Conductor max resistance at 20℃(Ω/km)	计算拉断力(不小于)N Calculated breaking ≥	电缆参考重量 Reference weight (kg/km)
	铝 Aluminium	钢 Steel							
10/2	6/1.50	1/1.50	4.28	1.0	3.4	13.1	0.7060	4120	159
16/3	6/1.85	1/1.85	5.27	1.0	3.4	14.1	1.7790	6130	194
25/4	6/2.32	1/2.32	6.60	1.0	3.4	15.4	1.1310	9290	270
35/6	6/2.72	1/2.72	7.75	1.0	3.4	16.6	0.8230	12630	304
50/8	6/3.20	1/3.20	9.12	1.0	3.4	17.9	0.5496	16870	375
50/30	12/2.32	7/2.32	11.02	1.0	3.4	19.8	0.5692	42620	577
70/10	6/3.80	1/3.80	10.83	1.0	3.4	19.6	0.4217	23390	477
70/40	12/2.72	7/2.72	12.92	1.0	3.4	21.7	0.4141	58300	741
95/15	26/2.15	7/2.15	12.93	1.0	3.4	21.7	0.3058	35000	611

铝绞线及钢芯铝绞线

AL CONDUCTOR STEEL-REINFORCED



打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

RuiYang Group Northest Cable Co.,LTD

铝绞线及钢芯铝绞线
AL CONDUCTOR STEEL-REINFORCED

一、产品简介 Brief product introduction

本产品适用于架空电力线路。

The product is used in the field of aerial power line.

二、产品标准 Product standard

本产品执行与国际电工委员会 IEC207-1966 及 IEC209-1966 的规定相一致的 GB/T1179-2008 标准。

Manufacturing standard:The standard as GB/T1179-2008 it is equal to IEC207-1966 and IEC209-1966.

三、型号及名称(见表 1) Model and name(see table 1)

表 1
table 1

型 号 Type	名称 Description
LJ	铝绞线 Aluminium stranded conductors(ASC)
LGJ	钢芯铝绞线 Aluminium stranded conductors steel-reinforced(ACSR)
LGJF	防腐钢芯铝绞线 Corrosion-proof aluminium stranded conductors steel-reinforced
LJX	稀土铝绞线 Rare-earth aluminium alloy stranded conductors
LGJX	稀土钢芯铝绞线 Rare-earth aluminium alloy atranded conductors steel-reinfarced

四、产品的结构简图 Construction of the cable

1. 铝绞线、烯土铝绞线(见图 1-2)Aluminium stranded conductors,Rare-earth aluminium alloy stranded conductors(see Fig.1-2)

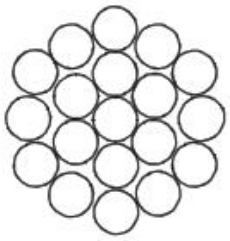


图 1 19(1+6+12)AL
Fig.1 19(1+6+12)AL

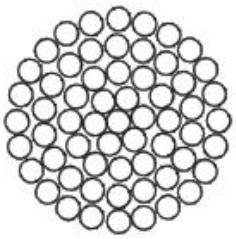


图 2 61(1+6+12+18+24)AL
Fig.2 61(1+6+12+18+24)AL

2. 钢芯铝绞线、稀土钢芯铝绞线(见图 3-6)
Aluminium conductor steel reinforced(ACSR),Rare-earth Aluminium alloy stranded conduclors steel reinforced(see Fig.3-6)

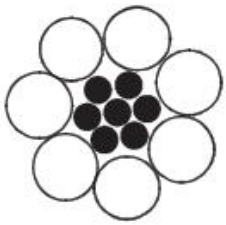


图 1 7AL./7St
Fig.1 7AL./7St

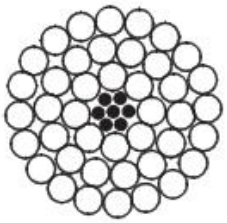


图 3 42AL./7St
Fig.3 42AL./7St

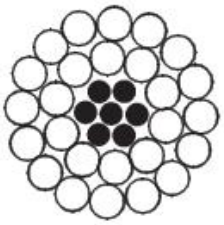


图 2 26AL./7St
Fig.2 26AL./7St

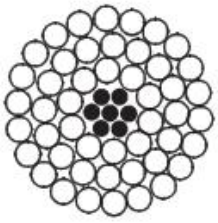


图 4 54AL./7St
Fig.4 54AL./7St

钢芯铝绞线(GB/T1179-2008)、稀土钢芯铝绞(QJ/ZL02.29-95)JL、JL/G 型
Rare-earth Aluminium alloy stranded conductors steel reinforced (QJ/L02.29-95)JL、JL/G model

表 3
table 3

标称截面 Nominal cross-sectional area of conductor Aluminium/steel (mm^2)	结构(根数/直径) Structure (No./diameter) (mm)		外径 Outer diameter (mm^2)	20℃时直流电阻不大于 D.C.resistance at 20℃(W/km)	计算拉断力 Calculated breaking load N	计算重量 Calculated weight (kg/km)	交货长度(不小于) Delivery length≥	连续载流量 Continuous ampacity (A)
	铝 Aluminium	钢 Steel						
10/2	6/1.50	1/1.50	4.50	2.706	4120	42.9	3000	87
16/3	6/1.85	1/1.85	5.55	1.799	6130	65.2	3000	110
25/4	6/2.32	1/2.32	6.96	1.131	9290	102.6	3000	125
35/6	6/2.72	1/2.72	8.16	0.8230	12630	141.0	3000	145
50/8	6/3.20	1/3.20	9.60	0.5946	16870	195.1	2000	212
50/30	12/2.32	7/2.32	11.60	0.5692	42620	372.0	3000	250
70/10	6/3.80	1/3.80	11.40	0.4217	23390	275.2	2000	255
70/40	12/2.72	7/2.72	13.60	0.4141	58300	511.3	2000	340
95/15	26/2.15	7/1.67	13.61	0.3058	35000	380.8	2000	350
95/20	7/4.16	7/1.85	13.87	0.3019	37200	408.9	2000	360
95/55	12/3.20	7/3.20	16.00	0.2992	78110	707.7	2000	420
120/7	18/2.90	1/2.90	14.50	0.2422	27570	379.0	2000	380
120/20	26/2.32	7/1.85	15.07	0.2496	41000	466.8	2000	390
120/25	7/4.72	7/2.10	15.74	0.2345	47880	526.6	2000	400
120/70	12/3.60	7/3.60	18.00	0.2364	98370	895.6	2000	505
150/8	18/3.20	1/3.20	16.00	0.1989	32860	461.4	2000	442
150/20	24/2.78	7/1.85	16.67	0.1980	46630	549.4	2000	450
150/25	26/2.70	7/2.10	17.10	0.1939	54110	601.0	2000	470
150/35	30/2.5	7/2.50	17.50	0.1962	65020	676.2	2000	500
185/10	18/3.60	1/3.60	18.00	0.1572	40880	584.0	2000	497
185/25	24/3.15	7/2.10	18.90	0.1542	59420	706.1	2000	525
185/30	26/2.98	7/2.32	18.88	0.1592	64320	732.6	2000	525

五、规格尺寸、主要性能 Specification size and main property

铝绞线、稀土铝绞线（GB/T1179-2008）JL、JL /G 型

Aluminium stranded conductors and Tare-earth aluminium stranded conductors(GB/T1179-2008)LJ、JL/G model

表 2
table 2

标称截面 Nominal cross-sectional area of conductor (mm^2)	结构（根数/直径） Structure (No./diameter) (mm)	外径 Outer diameter (mm^2)	20℃时直流电阻不大于 D.C.resistance at 20℃(W/km)	计算拉断力 Calculated breaking load N	计算重量 Calculated weight (kg/km)	交货长度（不小于） Delivery length≥	连续载流量 Continuous ampacity (A)
16	7/1.70	5.10	1.8020	2840	43.5	4000	111
25	7/2.15	6.45	1.1270	4355	69.6	3000	147
35	7/2.50	7.50	0.8332	5760	94.1	2000	180
50	7/3.00	9.00	0.5786	7930	135.5	1500	227
70	7/3.60	10.80	0.4108	10590	195.1	1250	284
95	19/2.54	12.48	0.3009	14450	260.5	1000	338
120	19/2.85	14.25	0.2373	19420	333.5	1500	390
150	19/3.15	15.75	0.1943	23310	407.4	1250	454
185	19/3.50	17.50	0.1574	28440	503.0	1000	518
210	19/3.75	18.75	0.1371	32260	577.4	1000	575
240	19/4.00	20.00	0.1205	36260	656.9	1000	610
300	37/3.20	22.40	0.09689	46850	820.4	1000	707
400	37/3.70	25.90	0.07247	61150	1097.0	1000	851
500	37/4.16	29.12	0.05733	76370	1387.0	1000	982
630	61/3.63	32.67	0.04577	91940	1744.0	800	1140
800	61/4.10	36.90	0.03588	115900	2225.0	800	1340

续表 3
table 3

标称截面铝/钢 Nominal cross-sectional area of conductor Aluminium/steel (mm^2)	结构(根数/直径) Structure (No./diameter) (mm)		外径 Outer diameter (mm^2)	20℃时直流电阻不大于 D.C.resistance at 20℃(W/km)	计算拉断力 Calculated breaking load N	计算重量 Calculated weight (kg/km)	交货长度(不小于) Delivery length≥	连续载流量 Continuous ampacity (A)
	铝 Aluminium	钢 Steel						
185/45	30/2.80	7/2.80	19.60	0.1564	80190	848.2	2000	522
210/10	18/3.80	1/3.80	19.00	0.1411	45140	650.7	2000	523
210/25	24/3.33	7/2.22	19.98	0.1380	65990	789.1	2000	560
210/35	26/3.22	7/2.50	20.38	0.1363	74250	853.9	2000	590
210/50	30/2.98	7/2.98	20.86	0.1381	90830	906.8	2000	600
240/30	24/3.60	7/2.40	21.60	0.1181	75620	922.2	2000	610
240/40	26/3.42	7/2.66	21.66	0.1209	83370	964.3	2000	610
240/55	30/3.20	7/3.20	22.40	0.1189	102100	1108	2000	640
300/15	40/3.00	7/1.67	23.01	0.09724	68060	939.8	2000	650
300/20	45/2.93	7/1.95	23.43	0.09520	75680	1002	2000	655
300/25	48/2.85	7/7.22	23.76	0.09433	83410	1058	2000	690
300/40	24/3.99	7/2.66	23.94	0.09614	92220	1133	2000	705
300/50	26/3.83	7/2.98	24.26	0.09636	103400	1210	2000	725
300/70	30/3.60	7/3.60	25.20	0.09463	128000	1402	2000	740
400/20	42/3.51	7/1.95	26.91	0.07104	88850	1286	1500	800
400/25	45/3.33	7/2.22	26.64	0.07370	95940	1295	1500	800
400/35	48/3.22	7/2.50	26.82	0.07389	103900	1349	1500	810
400/50	54/3.07	7/3.07	27.63	0.07232	123400	1511	1500	815
400/65	26/4.22	7/3.44	28.00	0.07236	135200	1611	1500	850
400/95	30/4.16	19/2.50	29.14	0.07087	171300	1860	1500	873
500/35	45/3.75	7/2.50	30.00	0.05812	119500	1642	1500	920
500/45	48/3.60	7/2.80	30.00	0.05912	128100	1688	1500	920
500/65	54/3.44	7/3.44	30.96	0.05760	154000	1897	1500	935
630/45	45/4.20	7/2.80	33.60	0.04633	148700	2060	1200	1025
630/55	48/4.12	7/3.20	34.32	0.04514	164400	2209	1200	1060
630/80	54/3.87	19/2.32	34.82	0.04551	192900	2388	1200	1120
800/55	45/4.80	7/3.20	38.40	0.03547	191500	2690	1000	1220
800/70	48/4.63	7/3.60	38.58	0.03574	207000	2791	1000	1223
800/100	54/4.33	19/2.60	38.98	0.03635	241100	2991	1000	1240

注：防腐型的计算重量,应在规定值中增加防腐涂料的重量,其增值为:钢芯涂防腐料者增加 20%,内部铝钢各层间涂防腐涂料者增加 5%。

Note: The calculating weight of preservation type shall be the one added by the value stipulated to the weight of preservation coatings. And its increasing value is that steel copper coated by preservation material adds 2% and each layer among inner aluminium steel coated by preservation material adds 5%.

<<07

矿物绝缘电缆

NSTRUCTION FOR MINERAL INSULATE CABLE

打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

RuiYang Group Northest Cable Co.,LTD

矿物绝缘电缆
Instruction For Mineral Insulate Cable

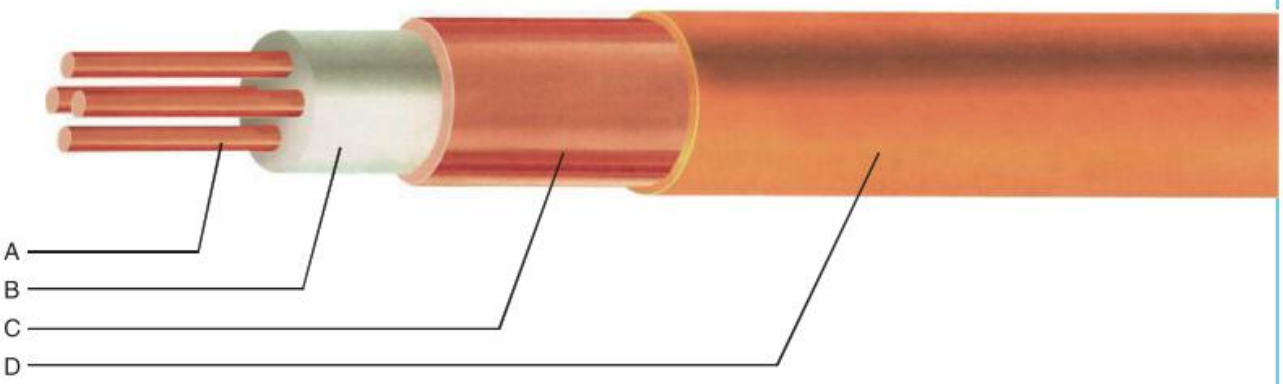
一、矿物绝缘电缆简述 Instruction for mineral insulate cable (MI Cable)

矿物绝缘电缆国内又称防火电缆或氧化镁电缆，国外简称 MI 电缆。该电缆最早于 1895 年瑞士人研制开发，矿物绝缘电缆又称防火电缆或铜芯铜护套氧化镁绝缘电缆，国外称 MI 电缆。该电缆最早于 1895 年瑞士人研究开发，并取得专利，1934 年法国率先将该技术转化为生产。矿物绝缘电缆的出现对传统电缆的创新，特别是在一些重要场所和关键电气线路中发挥的重要作用，使塑料电缆望尘莫及。因而英国、澳大利亚、加拿大等工业发达国均相继开始生产矿物绝缘电缆，但仍主要仅用于军事及重要的工业设施。而中国涉及较迟，直至 1968 年才开始由上海电缆研究所对该产品进行研制开发。由于该产品用材和结构的特性，使得其具有传统电缆所无法比拟的电气性能、机械性能、耐环境性能和环保性能。随着该产品的不断推广人们对安全要求越来越高，矿物绝缘电缆越来越为人们所认同，现已广泛应用于基础工业及民用建设中。

Mineral insulated cable is also called fireproof cable or copper-conductor copper sheathed magnesia insulated cable in china, known as MI cable abroad abroad. In 1985 , Swiss researched and developed this cable and received the patent. In 1934, this new technology was converted into the production for the first time in France. The emergence of MI cable demonstrates the innovation of traditional cable, especially, its effect in the some important areas and electric circuits, it leaves the plastic cable in the dust. According, U.K., Australia and Canada began to produce the MI cable gradually, but, the cable was applied to building industry and key industrial facilities at that time. And, China was relatively late to involve in the field of this cable, until Shanghai Cable Research Institute was engaged in the research and development of this product in 1968. Due to the particularity of product material and structure, it has high electric property, mechanical performance environment resistance and environmental protection that the continuous promotion of this product, people require higher demands for the safety, it is recognized by more and more people, and now, it has been widely applied to the basic industry and civil construction.

二、矿物绝缘电缆结构图 MI cable structure diagram

A 铜导体 Copper conductor
B 矿物绝缘材料(氧化镁) Mineral unsulated(magnesia)
C 铜护套 Copper sheath
D 防腐保护外护套(可选用) Anticorrosion outer sheath(opaional)



矿物绝缘电缆以高导电率的铜导体、矿物(氧化镁)绝缘、无缝铜管护套为基本结构组成,当电缆用于对铜有腐蚀的场合时,最外层可加一层塑料外套(可选择)。

MI cable is composed of high-conductivity copper conductor, mineral (magnesium-oxide) insulator and seamless copper tube sheath, if the cable is used in the locations where the copper will be eroded, it may be added with plastic sheath(optional) at the outermost layer.

裸电缆连续工作温度可达 250℃,在 950℃~1000℃时可持续供电 3 小时,短时间或非常时期可接近铜的熔点 1083℃工作(氧化镁熔点为 2800℃)。

The continuous working temperature of bare cable reaches 250℃, it can supply the power for 3hours continuously at 950℃~1000℃, in addition, it can work at copper melting point of1083℃in short time or unusual time (melting point of magnesia:2800℃)

三、电缆主要性能 Main performance of cable

3.1 耐火性能 Fire-resistive performance

电缆不但自身无法燃烧,更不会引起火源。即使有外在火焰的烧烤,电缆仍能正常工作。而且只要火焰温度低于铜的熔点温度,火情消除后,电缆无需更换,仍可继续使用。更换材料耐火更佳,可在油气环境下使用。

Never does the cable burn by itself, or does it cause the source of fire. Even in fire condition, it can still work normally. And, as long as the flame temperature is lower than the meting point of copper, the cable can be used continuously without change after the fire is removed. It would have better fire-resistive performance if the sheath and conductor material are changed, it can be used in oil gas environment.

3.2 过载保护能力强 Strong overload protection

线路过载时,塑料电缆会因过电流或过电压而引发绝缘发热老化或击穿;而对于矿物绝缘电缆,只要发热达不到铜的熔点温度,电缆不会受损。即使瞬间击穿,击穿点处氧化镁遇高温也不会形成碳化物,过载消除后,电缆性能不会产生变化,仍可继续正常使用。

When the circuit has the over load, the plastic cable will come across the aging of insulation or breakdown for heat due to the over current or over voltage; while, MI cable has no loss only the heating temperature is not higher than the copper melting point. Even if the instantaneous breakdown occurs, the magnesia at the breakdown point still is magnesia after being melted at a high temperature. After the over load is removed, the cable has no change in performance, it can work normally and continuously.

3.3 载流量大 Large current carrying capacity

由于电缆绝缘材质及结构的特殊性,使得矿物绝缘电缆具有较大的载流能力。传输相同的电流量,若选用矿物绝缘电缆可比塑料类电缆减小 1 到 2 个截面等级或更大。

The cable adopts the seamless copper tube as the sheath, it is very compact among the conductor, insulation and sheath, so, the cable not only has the function of resisting the water, dampness, oil, chemical substance, etc, also can prevent the spreading of combustible oil vapor, gas and flame.

3.6 屏蔽习惯能优越 Excellent shielding property

电缆铜护套是最佳的屏蔽保护层，即可防止电缆本身对其他线缆的干扰，又可阻止外界电磁场对自身的干扰。

The cable copper sheath is the best shield, it not only can prevent other cables being interfered by this cable, but also can prevent this cable being by external electromagnetic field.

3.7 抗辐射能力强。 Strong radiation resistance

由于电缆组成材料为无机物，因而在经受核辐射后，电缆的电气及机械性能不会产生任何变化。

As the material of cable is inorganic, the electric and mechanical performance of cable can not be changed after suffering from the nuclear radiation

3.8 使用寿命长 Long service life

由于电缆由无机材料组成，因而不会老化，其使用期限最低达百年以上。

The cable is made of inorganic material, therefore, it is not aged, its service life reaches hundreds of years at least.

3.9 外径小、重量轻 Small outer diameter and light weight

和同载流量塑料电缆相比，矿物绝缘电缆外径，重量要减少很多，即可减小占用空间，又便于安装。

Compared with the plastic cable of same current-carrying capacity, the outer diameter of MI cable and the weight of that are reduced much, in terms of these, the cable can reduce the occupied space and is easily installed.

3.10 环保、安全 Environmental protection and safety

电缆组成材料均为无机物，不含有任何有机物。因而电缆即使处于 1000℃以上加热中，也不会产生丝毫的烟雾，更无卤素及毒性气体。该电缆是能真正实现绿色环保，无"二次灾害"的安全型产品。

The material of cable is inorganic, without any organic matter. Therefore, even if the cable is heated with 1000℃ above, it can't produce halogen, smoke, or poisonous gas. This cable can really realize the green environmental protection, it is the safety product without secondary damage.

3.11 机械强度高 High mechanical strength

电缆结构致密、坚固耐用，可承受外力的挤压、撞击、弯曲、压扁等，在电缆压扁至原来电缆外径的 1/3~2/3 时，仍可继续安全的正常使用。

Due to compact, firm and durable structure, it an withstand the external extrusion, collision, bend or bruising, although the cable is changed by 1/3~2/3 of the original shape due to crushing, it still can be used normally.

3.12 弯曲性能 Bending performance

电缆经充分退火后，具有一般塑料电缆所无法相比的可弯曲性。最小弯曲半径仅为电缆外径的 2~6 倍，如果需重复、多次弯曲时，需要用喷灯加热弯曲部分，避免电缆破裂。

After the cable is annealed fully, its high flexural property is incomparable for plastic cable, the min bending radius is two to six times smaller than cable outer diameter. What's more, if it required to be bent repeatedly, please use blow lamp for not bending parts, preventing cracking of cable.

3.13 良好的接地 Perfect earthing

对于矿物绝缘来说，不需要独立的接地导线，因为电缆的铜护套已起到接地导线的作用，并可提供极好的低接地电阻，与有机电缆相比，它可以节省一根地线。

MI cable need not the individual earthing conductor, because the copper sheath of cable has take the effect of earthing conductor, and provides extremely good low earthing resistance. Comparing with the organic cables, it saves an earth wire.

四、电缆抗火灾能力 Fire resistance

4.1 电缆在火焰中应有条件 Essential conditions of cable in the flame

无论是在工厂还是建筑物中，电气线路的安全性至关重要。据国家有关部门统计，在火灾起因中，由于电气引起的火灾占 30%以上。因而要求电缆不但要有抗外在火焰破坏的能力，而且要有自身不会产生和传播火源的特性，防止老化。由于矿物绝缘电缆构成材料均为无机物，绝缘体氧化镁不会老化，有它构成的线路，也不会导致火情的发生和传播。如一旦由其它原因引起火灾，该线缆在火

烧中不仅能受熊熊大火的考验，还会受到其它坠物的不断冲击和消防龙头水的喷淋。此时，电缆在不产生烟雾和毒性气体的同时，还能保证消防设备的正常起动、火情扑灭及人员的撤离，是评价该线路抗火灾能力的关键。

Whether in the factory or in the building, the security of electric circuit is of paramount importance. According to the statistics from some relevant departments, more than 30% of fires are caused by the electric cause, and more than 30% of which are caused by cable. Accordingly, on one hand, the cable must have the ability to resist the destroy from external flame, on the other hand, the cable must have the character that it should not produce or transmit fire source, and should be able to anti aging. Since the material of MI cable is inorganic, the insulator magnesia would not age, the circuit consisted by MI cable would not cause or transmit fire. Once the fire is caused for other reasons, the cable should be able to withstand the test of fire and poisonous gas, the cable can guarantee the normal start of fire fighting equipment, extinction of fire, and evacuation of personnel that is the key to evaluate the fire resistance of circuit.

4.2 耐火性能的试验方法 Fire-resistive performance test method

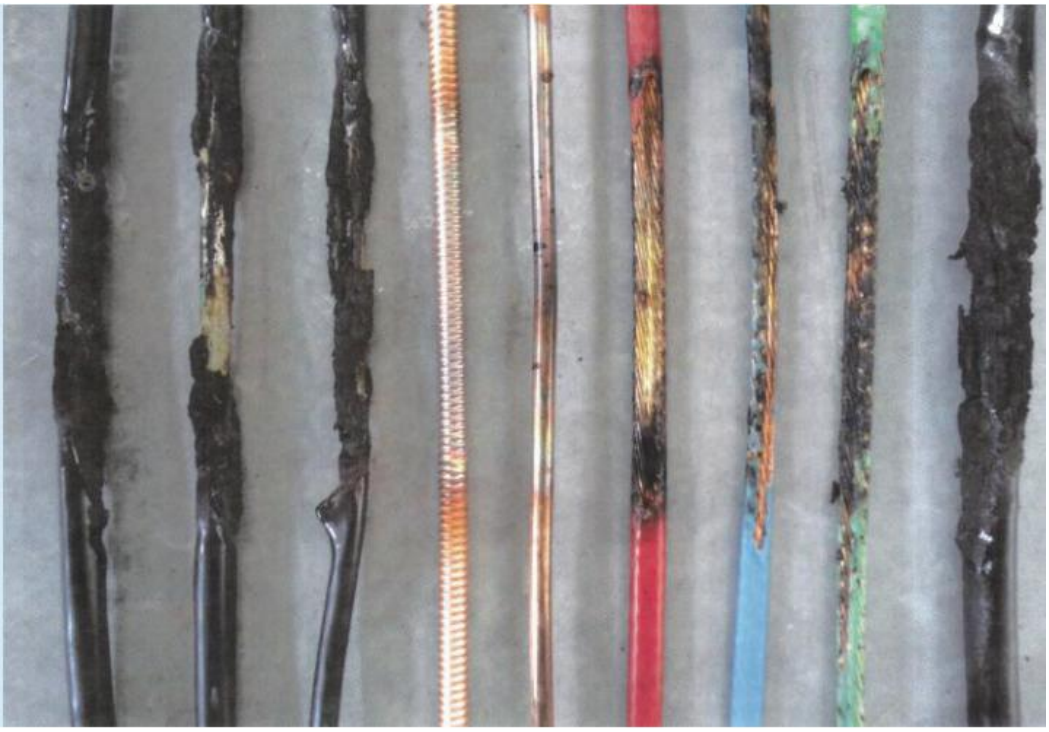
试验项目 Test item	GB/T19216	BS6387	IEC331
耐火试验 Fire-resistive test	750℃ 90min	A 级(Class A)650℃ 180min B 级(Class B)750℃ 180min C 级(Class C)950℃ 180min S 级(Class S)950℃ 20min	750℃ 180min
喷淋试验 Water spray test	无 without	W 级(Class W)650℃ 15min	无 without
冲击试验 Impact test	无 without	X 级(Class X)650℃ 15min Y 级(Class Y)750℃ 15min Z 级(Class Z)950℃ 15min	无 without

耐火试验 Fire-resistive test　　喷淋试验 Water spray test　　冲击试验 Impact test

补充：包括英国 BS6387 标准在内实验要求均不严格，BS6387 要求 3 种试验分别在三个新试样上分别进行与火灾实际情况不符，英国地铁公司电缆火灾安全试验要求，所有试验在一根试样上完成，试验条件更加苛刻，950℃3 小时，每十分钟用钢棒冲击一次，用水喷淋 15 分钟(钢棒仍在冲击)然后试样在冲击点处进行 180°弯曲，再进一步进行机械冲击，最后试样浸水进行额定电压的试验，这种要求只有矿物绝缘电缆才能满足要求。

Supplement: all the test requirements including S6387 requires that 3 types of tests to be carried out on three new samples respectively, which is inconformity with the actual fire condition, cable fire safety test of British Underground Corporation requires that all the tests should be carried out on one sample, the test conditions are more rigorous, 950℃ for 3 hours, use steel bar to impact once every 10min, spry with water for 15min (steel bar keeps striking), then bend the sample for 180℃ at the struck point, make further mechanical shock, at last, dip the sample in water, and implement test of rated voltage, only mineral insulated cable is able to satisfy this kind of requirements.

加温到 300℃～950℃时
耐火试验比较图
Fire-resistive test



4.3 电缆防火能力 Fire-proof capability

从前述内容看，只有英国地铁公司的电缆火灾安全性能的要求，才是电缆在火灾中经受的真正的耐火性考验。因为电缆在火烤中并非不受外界的干扰，它会受到消防水、火烧脱落物及其它重物的不断冲击，而且是在同一线路上。而有机(塑料)电缆耐火性能是靠导体和绝缘将分别形成硬壳及碳壳。碳壳一遇消防水将导电，云母硬壳遇水或其他重物的冲击将脱落。公安部四川消防研究所及英国消防研究所对矿物绝缘电缆及塑料类耐火电缆进行了模拟实体活在对比试验，试验证明，能够满足英国地铁公司耐火安全要求的只有矿物绝缘电缆。

According to the forementioned contents, only the fire safety performance requirements for cables issued by British Underground Corporation can help the cable undergo the real fire-resistive test. It is impossible that the same cable has no outside interference, it will be impacted constantly by the fire fighting water, falling material or other heavy objects. And, the realization of the fire resistance of organic (plastic)material depends pm the mica tape between the conductor and insulator, once the plastic fire-resistance cable is burned, the mica and insulator will form the hard shell an carbon shell respectively. Hereinto, the carbon shell will conduct the electricity immediately if sprayed by the fire fighting water, and the mica hard shell will come off if sprayed by the water or impacted by the heavy objects. Sichuan Fire Research Institute of Ministry of Public Security and UK Fire Research Institute cable, the test proved that only the mineral insulated cable meets the requirements specified by British Underground Corporation on fire-resistive performance.

五、电缆抗过载能力 Overload resistance

试验条件：试验均选用具有相同额定载流量规格的不同类别电缆，所有试验电缆并联，试验电缆同时联接到可调压路。

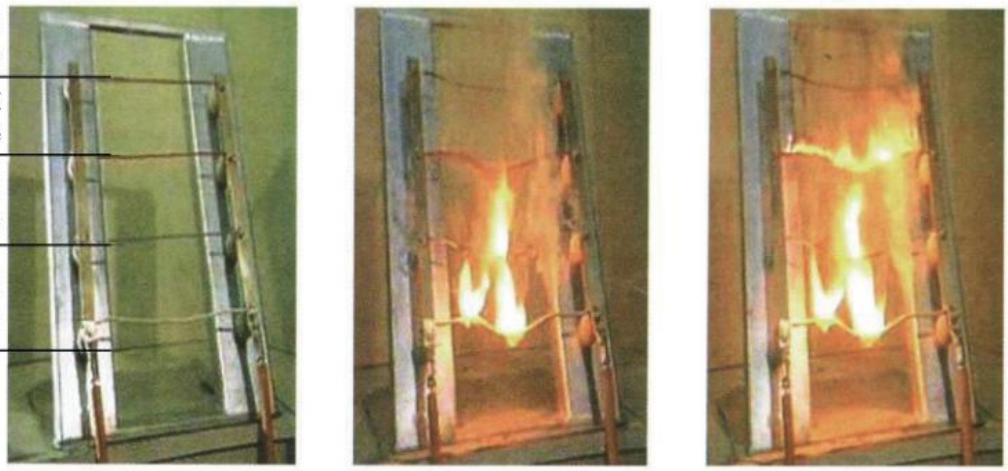
Test condition: The test adopts the cables that have the same rated current carrying capacity but different categories, all tested cables are connected in parallel, and connected to the adjustable transformer simultaneously.

试验方法：逐渐加大电流变压器的输出电压，从而改变通过被实验电缆的电流，直至电流过载后观察电缆的状况。

Test method: Increase the output voltage of current transformer gradually, to change the current passing the tested cable, and then, watch the cable status after the current overload occurs.

试验结论：由下面试验效果图，可以看出在对电缆加载过电流后，试验中部分电缆因电能转换为热能，而使电自身产生火源。从试验结果也可得出，只有矿物绝缘电缆不会因为过载而出现电气故障，更不会出现火情。

Test conclusion: As shown in following test efficiency diagram, we can know that after the over-current is applied to the cable, some tested cables produce the fire source by itself because its electric energy is converted into the thermal energy. Meanwhile, the test result shows that even if over load occurs, MI cable hasn't the electric fault or doesn't cause the fire.



电缆过载试验 Cable overload test

六、电缆价格性能比 Cable price/performance ratio

6.1 性能比较 Comparison of performance

比较性能 Comparing the performance		矿物绝缘电缆 BTTZ 型 Mineral Insulated Cable BTTZ type	普通阻燃耐火电缆 Common flame-retardant and fire resistive ZN-YJV type	无卤低烟耐火电缆 WDZN-YJY 型 LSZH fire resistive cable WDZN-YJY type
电缆规格 Cable spec.		4×120	4×150+1×70	4×150+1×70
敷设条件 Layout conditions		可明敷、不用桥架或穿管	需封闭架桥或穿管保护 Need enclosed tray or pipeline protection	需封闭架桥或穿管保护 Need enclosed tray or pipeline protection
使用寿命 Service life		100 年以上	20~40 年 20~40 years	20~40 年 20~40 years
阻燃性能 Flame-retardant performance		无法燃烧	C 类阻燃 CAT-C flame retardance	可达 A 类阻燃 CAT-A flame retardance
耐火能力 Fire resistive capability	耐火性能 Fire-resistive performance	950℃180min	750℃90min 且电缆价格将有较大提高 Cable may be burned at 750℃for 90 min ,its price will be increased greatly.	
	喷淋试验 Water spraying test	达到试验要求 Meeting the test requirements	不能通过该项试验 Fail to pass this test	
	机械冲击 Mechanical impact	达到试验要求 Meeting the test requirements	不能通过该项试验 Fail to pass this test	
耐温性能 Temperature resistance performance		正常为 250℃最高可达 1000℃ Normal: 250℃; max: 1000℃	最高为 90℃短路时仅为 250℃ Max: 90℃ short circuit: 250℃	
环保性能 Environmental protection performance		无烟、无卤、无毒 No smoke, halogen or poison	燃烧中产生大量烟雾、毒气 Producing a great number of smoke and poisonous gas in burning	燃烧中有少量烟雾及毒性气体 Producing little smoke and poisonous gas in burning
占用空间 Occupying the space		Φ4mm	Φ55mm	Φ65mm

6.2 价格比较

在同样使用环境下进行价格比较：

电缆均传输相同的载流量：矿物绝缘电缆铜护套替代接地线芯

6.2 Comparison of the price

Comparing the price in the same service environment

Both cables transmit the same current carrying capacity; the copper sheath of MI cable takes the place of earthing core.

比较项目 Comparison of the item	矿物绝缘电缆 BTTZ 型 Mineral Insulated Cable BTTZ type	普通阻燃耐火电缆 ZN-YJV 型 Common flame-retardant and fire resistive cable ZN-YJV type	无卤低烟耐火电缆 WDZN-YJV 型 LSZH fire resistive cable WDZN-YJV type
电缆规格 Cable spec.	4x120	4x150+1x70	4x150+1x70
载流量 ACurrent carrying capacity	380	360	365
每米价格百分比 Price per meter (percentage)	100%	95%	102%

6.3 比较结论

a.电缆寿命长，可避免因塑料电缆使用寿命年限给工程造成的二次投资。

6.3 Conclusion

a.With long service life, it can avoid the secondary investment for project for the service life of plastic cable.

b.电缆外径小，比塑料电缆节约很大的布线空间，更便于设计、安装。

b. With small outer diameter, it can save large of wiring space compare with the plastic cable, easily designed and installed.

c.电缆敷设方式简单，可以明敷不用穿管，可再为工程节约造价。

c. With simple layout , it can be exposed laid out without in pipe-line , so it save construction price for the project.

d.电缆耐高温而且防爆、耐腐、防水、防磁、耐机械损伤（包括动物啮咬）、不会老化、载流量大、过载能力强等，其中任一项性能的效果均远优于塑料电缆。

d. With performances of high temperature resistant, flame-retardant, explosion-proof, corrosion resistant, explosion-proof, corrosion resistant, waterproof, anti-magnet, mechanical damage resistance (including the animal biting), anti aging ,large current carrying capacity, high overload capacity, etc, any one item is far better than the plastic cable.

e.该电缆是真正的绿色、安全产品

与目前最为“环保”的无卤低烟塑料电缆相比，矿物绝缘电缆不但在性能及机械性能方面有较大提高，而且真正实现了无卤、无烟、无毒，彻底消除了无卤低烟塑料电缆中残留的毒素。

e.This cable is the real green and safe product.

Compare with LSZH plastic cable that is the most environmental-protection at present, MI cable not only is improved greatly in the electric performance and mechanical performance ,but also can realize the halogen free , no smoke and no toxicity ,it completely eliminates the residual toxin in the LSZH plastic cables.

f.该电缆已不再是主要用于消防系统

由于其优越的性能价格比而成为替代无卤低烟电缆、耐火电缆、阻燃电缆、母线槽（容量为 3000A 及以下）等产品的发展方向。

f.This cable is not the main fire control system any more.

Owning to the excellent performance /price ratio, it will take the place of LSZH cable , fire-resistive cable, bus slot (3,000A and below) gradually.

g.该产品的性能价格比远优于其他任何一种电缆。

g.The performance/price ratio of product surpasses any kind of cables.

七、电缆设计、订货型号及表示方法 Cable design, ordering model and expression methods

等级 Class	型号 Model	名称 Name	截面 Section(mm^2)	芯数 Core	额定电压 Rated voltage(v)
轻型 Light-duty	BTTQ	轻型铜芯铜护套矿物绝缘电缆 Light-duty copper sheathed mineral insulated cable with copper conductor	1.0-4.0	2-7	500 (500/500)
	BTTVQ	轻型铜芯铜护套防腐外套矿物绝缘电缆 Light-duty copper sheathed mineral insulated cable with copper conductor and anticorrosion sheath			
	BTTYQ	轻型铜芯铜护套无卤低烟外套矿物绝缘电缆 Light-duty copper sheathed mineral insulated cable with copper conductor and non-halogen low-smoke sheath			
重型 Heavy-duty	BTTZ	重型铜芯铜护套矿物绝缘电缆 Heavy-duty copper sheathed mineral insulated cable with copper conductor	1-400	1-19	750 (750/750)
	BTTVZ	重型铜芯铜护套防腐外套矿物绝缘电缆 Heavy-duty copper sheathed mineral insulated cable with copper conductor and anticorrosion sheath			
	BTTYZ	重型铜芯铜护套无卤低烟外套矿物绝缘电缆 Heavy-duty copper sheathed mineral insulated cable with copper conductor and non-halogen low-smoke sheath			

注:1.截面为 25mm2 以上的电缆均由单芯电缆组成,具体规格表示方法详见附表 1。

Note:1.Cable whose sectional areas are 25mm2 above are made up of single-core cables,refer to table 1 for detailed expression methods of specification.

表示方法:

例一:截面为 1.5mm2,3 芯轻型铜芯铜护套矿物绝缘电缆

表示为:BTTQ 3x1.5

例二:截面为 300mm2,4 芯重型铜芯铜护套矿物绝缘电缆

表示为:BTTZ 4x(1x300)

例三:截面为 35mm2,4 芯重型铜芯铜护套防腐外套矿物绝缘电缆

表示为:BTTVZ 4x(1x35)

Expression methods

eg.1:Sectional area is 1.5 mm2,3-core light-duty copper sheathed mineral insulated cable with copper conductor, can be expressed as BTTQ 3x1.5

eg.2: Sectional area is 300mm2, 4-core heavy-duty copper sheathed mineral insulated cable with copper conductor, can be expressed as BTTZ 4x(1x300)

eg.3: Sectional area is 35mm2, 4-core heavy-duty copper sheathed mineral insulated cable with copper conductor and anticorrosion sheath, can be expressed as BTTVZ 4x(1x35)

八、应用、设计注意事项 Notices for application and design

1.设计应用时,矿物绝缘电缆与普通塑料电缆相比,布线方式更简单,占用空间更小,敷设方式更多样,只是型号不同而已。

1.When comparing with the general plastic cables, the MI cable is simpler in layout, occupies less space, has more layout methods, and they are different in model expression.

2.电缆明敷在建筑物空间,并有美观要求的场所时,应设计成裸的,也可根据场合要求外套选用不同颜色的塑料或无卤低烟料。

2.When the cables are exposed laid out in buildings where should be beautiful in appearance, it should be designed into bare type, also plastics of different colors or LSZH material is available for sheath according to the location.

3.有氨及氨气或其他对铜有腐蚀作用的环境下,应设计成有塑料外护套的电缆。

3. It should be designed into the one with the plastic outer sheath when it is intended for environment with ammonia and ammonia gas or other matters that would erode copper.

4.带有塑料外套的电缆可同其他塑料类电缆共同敷设在同一桥架、电缆沟、电缆隧道或人能触及的场所,但该裸电缆应单独敷设,否则会对其他塑料等有机电缆造成影响。

4. The cable with plastic sheath can be laid out with other plastic cables in the same bridge tray , cable duct, cable tunnel or other touchable occasions, but this bare cable should be laid out separately, otherwise, it would affect other plastic or other organic cables.

5. 电缆无需穿金属管,单芯电缆不允许单独穿管,特殊场合必须穿金属管的线路,单芯电缆必须每组回路拼紧后再穿管,而且应设计成有塑料外护套的电缆。

5. The cable need not to be set in metal pipe, single-core cable is not allowed to be set in pipe alone, when it must be set in metal pipe for special occasions, the each circuit group of single-conductor cables should be arranged together compactly before being set in the pipe, and should be designed into the one with the plastic outer sheath.

6.由于该电缆载流能力大,建议提高一个截面等级设计选用,35mm2 及以上可提高二个截面等级使用。

6.As the cable has high current carrying capacity, it is advised to upgrade a sectional area class for designing and using, and that of exceeding and including 35mm2 can be used by upgrading two sectional area classes.

7.由于该电缆铜护套可以作接地线用,建议以四芯矿物绝缘电缆用于三相五线制线路。

7. As the copper sheath of cable can be used as ground wire, it is advised to use four-core MI cable for three-phase five-wire systems.

8.当考虑到整个线路需要减少采用中间联接时,可将截面为 25 mm2 及以下的多芯电缆,设计成单芯电缆(根数等于多芯电缆的芯数),或将大规格单芯电缆设计成小规格单芯电缆双拼或多拼联接,这样都可以使电缆长度成倍增加。

8. When considering that the whole line should employ less intermediate connection, just design the multi-core cables whose sectional area is 25mm2 and below into single-core cables (cable number equals to the core number of multi-core cable), or design the large-specification single-core cable into small-specification single-core cable in doubled or more connection, so the cable length can be exponentially increased.

9.当某线路路径较长,而在整个线路中有需用矿物绝缘电缆的部位,也有用普通塑料电缆的部位时,则可通过转接箱予以转换。

9. When a transmission route is rather long, and it requires both MI cable and general plastic cable, then transmitting box can be used for transition.

10.电缆可用分支箱分支矿物绝缘电缆。

10.Cable branching box can be use to branch the mineral insulated cables.

九、“分支”型矿物绝缘电缆“Branch” type MI cable

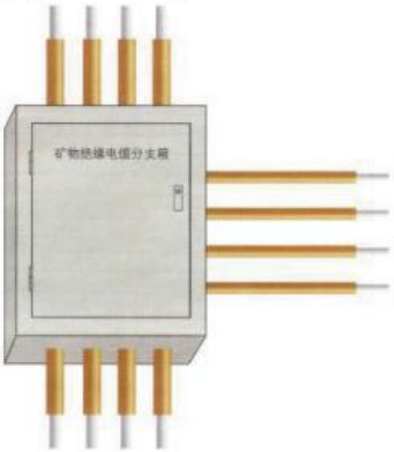
10.1 分支箱

“分支”型矿物绝缘电缆由主干线、分支线和分支箱组成,其施工方便、安装简单,且分支点可根据工程现场需要作适当调整,而无需定位测量和安装。其在工厂及建筑工程中的广泛应用,不但可提高电气安全性,而且使工程造价大为降低。分支箱可进行"T"联接和“十”字联接,在主动力线路中替代母线槽,可节约造价。在水平线路敷设中采用分支型,则可以转换电缆走向。

10.1 Branch box

“Branch” type MI cable is composed of trunk line, branch line and branch box, it is construction, simple in installation, and the

branch point can be adjusted appropriately according to the on-site condition, need not location survey or installation. Its wide application in factory engineering and constructional works not only improves the electrical safety, but also cuts down the construction cost considerably. Branch box is able to make "T" shaped connection and "十" shape connection, replacing the bus duct in main power line can cut down the cost. In horizontal layout, the cable's wiring direction can be changed by employing the branch type cable.



型号规格表示方法示例:

三相五线制供电系统中,铜护套作为地线,四根电缆截面为 300 mm^2,支线截面为 16 mm^2,支线路数为 7 个,表示为:FZ-BTTZ 4(1X300)+7X(4X16)

Example for model and specification expression:

FZ-BTTZ 4(1x300)+7x(4x16)

In three-phase five-wire power supply system, copper sheath is used as earth wire, sectional area of four pieces of cable is 300 mm^2, branch line is 16 mm^2, branch line number is 7, it can be expressed as: FZ-BTTZ 4(1x300)+7x(4x16)

十、主要应用场所 Main application occasions

A.公共建筑 Public buildings

公共娱乐场所 Public entertainment places

高层建筑 High-rise buildings

宾馆饭店 Hotels

医院、学校、机关 Hospitals, schools, government units

百货商场、仓库 Department stores, warehouses

国家纪念馆和历史性建筑物 Nation memorials and buildings of historic interest

银行、邮电大楼 Banks, postal buildings

图书馆、博物馆、展览馆 Libraries, museums, exhibition halls

机场航站楼、车站、港口 Airport terminal buildings, stations, ports

电力调度楼、电信大楼 Power dispatching buildings, telecommunication buildings

B.高温场合 High-temperature situations

冶金工业 Metallurgical industry

焦炭行业 Coke industry

船舶工业 Shipbuilding industry

钢铁工业 Iron and steel industry

玻璃工业 Glass industry

其他高温场合的输配电线路 Transmission and distribution lines in other high-temperature situations

C.危险场所 Hazardous locations

石油化工工业 Petrochemical industry

炼油厂、加油站及油库 Refinery, filling station and oil house

制漆和颜料工业 Paint making and pigment industry

化学工业 Chemical industry

核电站 Nuclear power station

海上石油平台 Offshore oil platform

天然气、煤气输送和压缩站 Natural gas, gas transportation and compression plant

医药工业 Medical industry

矿业、造纸业 Mining, paper industry

军事工业 Military industry

D.地下场所 Underground buildings

地铁 Underground railways

地下仓库 Underground warehouses

隧道 Tunnels

地下广场 Underground squares

说明:附表 1-附表 8 中的载流量均摘自 IEC364-5-523《建筑物电气装置 第五篇：电气设备的选择和安装 第 523 节：布线系统载流量》。

Remark: current-carrying capacities in attached table 1-attached table 8 are excerpted from IEC364-5-523 Electrical installations of buildings-Part 5:Selection and erection of electrical equipment-Section 523: Current-carrying capacities in wiring systems.

附表 1 500V 及 750V 级铜芯铜护套矿物绝缘电缆主要工程数据

Attached table 1 Main engineering data of copper-conductor copper sheathed mineral insulated cables of class 500V and 750V

导体芯数和标称截面 Core number of conductor and nominal sectional area		电缆外径 Overall diaemeter of cable		铜护套电阻 20℃ Resistance of copper sheath 20℃	成品电缆最大长度(仅供参考) Max length of finished cables(only for reference)		近似重量 Approximate weight	
		裸电缆 Bare cable	防腐外套电缆 Cable with anticorrosion outer sheath				裸电缆 Bare cable	防腐外套电缆 Cable with anticorrosion outer sheath
mm^2		mm	mm	Ω/km	m		kg/km	kg/km
轻载电缆 Light-duty cable	2×1.0	5.1	6.7	3.95	150	该数据为电缆最大生产长度,交货时以实际生产长度为准 This data is the max pro- duction length of cable, please take the actual length as standard for delivery	104	125
	2×1.5	5.7	7.3	3.35	150		130	153
	2×2.5	6.6	8.2	2.53	150		179	205
	2×4.0	7.7	9.7	1.96	150		248	282
	3×1.0	5.8	7.4	3.15	150		135	159
	3×1.5	6.4	8.0	2.67	150		168	193
	3×2.5	7.3	10.1	2.23	150		224	258
	4×1.0	6.3	7.9	2.71	150		161	187
	4×1.5	7.0	9.0	2.33	150		203	230
	4×2.5	8.1	10.1	1.85	150		278	314
	7×1.0	7.6	9.6	2.06	250		172	207
	7×1.5	8.4	10.4	1.78	200		294	331
	7×2.5	9.7	11.7	1.36	160		413	455

导体芯数和标称截面 Core number of conductor and nominal sectional area		电缆外径 Overall diameter of cable		铜护套电阻 20℃ Resistance of copper sheath 20℃	成品电缆最大长度(仅供参考) Max length of finished cables(only for reference)		近似重量 Approximate weight	
		裸电缆 Bare cable	防腐外套电缆 Cable with anticorrosion outer sheath				裸电缆 Bare cable	防腐外套电缆 Cable with anticorrosion outer sheath
mm^2		mm	mm	Ω/km	m		kg/km	kg/km
轻载电缆 Light-duty cable	1×1.5	4.9	6.5	4.13	500	该数据为电缆最大生产长度,交货时以实际生产长度为准 This data is the max pro- duction length of cable, please take the actual length as	88	108
	1×2.5	5.3	6.9	3.17	500		114	135
	1×4.0	5.9	7.5	3.09	500		140	162
	1×6.0	6.4	8.0	2.67	500		172	198
	1×10	7.3	9.3	2.23	450		235	258
	1×16	8.3	10.3	1.81	350		319	356
	1×25	9.6	11.6	1.40	260		451	439
	1×35	10.7	12.7	1.17	220		573	619
	1×50	12.1	14.1	0.959	180		764	816
	1×70	13.7	15.7	0.767	170		1018	1076
	1×95	15.4	17.8	0.646	140		1298	1386
	1×120	16.8	19.2	0.556	120		1576	1674
	1×150	18.4	20.8	0.479	100		1890	1997
	1×185	20.4	23.2	0.412	80		2323	2468
	1×240	23.3	26.1	0.341	60		3031	3197
	1×300	26.0	--	0.280	45		3832	--
	1×400	30.0	--	0.223	35		5228	--
	2×1.5	7.9	9.9	1.90	250		212	243
	2×2.5	8.7	10.7	1.63	200		260	298

2×4.0	9.8	11.8	1.35	185	standard for delivery	342	385
2×6.0	10.9	12.9	1.13	160		427	474
2×10	12.7	14.7	0.887	140		582	636
2×16	14.7	16.7	0.695	110		845	907
2×25	17.01	19.5	0.546	80		113	1238
3×1.5	8.3	10.3	1.75	220		242	274
3×2.5	9.3	11.3	1.47	190		311	352
3×4.0	10.4	12.4	1.23	165		399	444
3×6.0	11.5	13.5	1.03	150		507	556
3×10	13.6	15.6	0.783	130		728	786
3×16	15.6	18.0	0.622	110		980	1069

导体芯数和标称截面 Core number of conductor and nominal sectional area		电缆外径 Overall diaemeter of cable		铜护套电阻 20℃ Resistance of copper sheath 20℃	成品电缆最大长度(仅供参考) Max length of finished cables(only for reference)		近似重量 Approximate weight	
		裸电缆 Bare cable	防腐外套电缆 Cable with anticorrosion outer sheath				裸电缆 Bare cable	防腐外套电缆 Cable with anticorrosion outer sheath
mm^2		mm	mm	Ω/km	m		kg/km	kg/km
轻载电缆 Light-duty cable	3×25	18.2	20.6	0.500	75	该数据为电缆最大生产长度,交货时以实际生产长度为准 This data is the max pro- duction length of cable, please take the actual length as standard for delivery	1370	1476
	4×1.5	9.1	11.1	1.510	185		298	333
	4×2.5	10.1	12.1	1.290	175		367	411
	4×4.0	11.4	13.4	1.040	150		472	521
	4×6.0	12.7	14.7	0.887	170		623	677
	4×10	14.8	16.8	0.690	110		861	923
	4×16	17.3	19.7	0.533	95		1275	1376
	4×25	20.1	22.9	0.423	80		1766	1909
	7×1.5	10.8	12.8	1.15	150		409	455
	7×2.5	12.1	14.1	0.959	120		562	614
	12×1.5	14.1	15.6	0.744	160		706	774
	12×2.5	15.6	17.6	0.630	150		907	997
	19×1.5	16.6	18.6	0.570	110		982	1077

附表 2　500V 及 750V 级铜芯铜护套矿物绝缘裸或防腐外护套电缆，允许人接触的铜护套温度：70℃/环境温度：30℃（沿墙、楼板、线槽、穿管）

Attached table 2 Copper-conductor copper sheathed mineral insulated bare cable or cable with anticorrosion sheath of class 500V and 750V, touchable temperature of copper sheath: 70℃/ambient temperature:30℃(along the walls,floors,line ducts, pipes)

导体标称截面积 Nominal sectional area of conductor mm^2		载流量 A Current carrying capacity A		
		两根导体（单项）两芯或单芯电缆 Two pieces of conductor (single-phase) two-core or single-core cable	三根导体（三相）Three pieces of conductor (three-phase)	
			多芯或单芯电缆三角形排列 Multi-core or single-core cable Triangle arrangement	单芯电缆平列 Single-core cable Side-by-side arrangement
		1	2	3
(轻载)500V Light-duty 500V	1.5	23	19	21
	2.5	31	26	29
	4	40	35	38
(重载)750VHeavy-duty 750V	1.5	25	21	23
	2.5	34	28	31
	4	45	37	41
	6	57	48	52
	10	77	65	70

导体标称截面积 Nominal sectional area of conductor mm^2		载流量 A Current carrying capacity A		
		两根导体（单项）两芯或单芯电缆 Two pieces of conductor (single-phase) two-core or single-core cable	三根导体（三相）Three pieces of conductor (three-phase)	
			多芯或单芯电缆三角形排列 Multi-core or single-core cable Triangle arrangement	单芯电缆平列 Single-core cable Side-by-side arrangement
		1	2	3
(重载)750VHeavy-duty 750V	16	102	86	92
	25	133	112	120
	35	163	137	147
	50	202	169	181
	70	247	207	221
	95	296	249	264
	120	340	286	303
	150	388	328	346
	185	440	371	392
	240	514	434	457

注：1.对于单芯电缆，回路中各电缆的铜护套在两端连接在一起。

2.对于易触及的裸电缆，表列数值应乘以 0.9。

Notes:1.For single-core cables,copper sheaths are connected on the two ends.

2.For touchable bare cables,the listed data should be multiplied by 0.9.

附表 3　500V 及 750V 级铜芯铜护套矿物绝缘裸电缆，不允许人接触的铜护套温度：150℃/环境温度：30℃（沿墙、楼板、线槽、穿管）

Attached table 3 Copper-conductor copper sheathed mineral insulated bare cable of class 500V and 750V, untouchable temperature of copper sheath: 105℃/ambient temperature:30℃(along the walls,floors,line ducts, pipes)

导体标称截面积 Nominal sectional area of conductor mm²		载流量 A Current carrying capacity A		
		两根导体（单项）两芯或单芯电缆 Two pieces of conductor (single-phase) two-core or single-core cable	三根导体（三相）Three pieces of conductor (three-phase)	
			多芯或单芯电缆三角形排列 Multi-core or single-core cable Triangle arrangement	单芯电缆平列 Single-core cable Side-by-side arrangement
		1	2	3
(轻载)500V Light-duty 500V	1.5	28	24	27
	2.5	38	33	36
	4	51	44	47
(重载)750VHeavy-duty 750V	1.5	31	26	30
	2.5	42	35	41
	4	55	47	53
	6	70	59	67
	10	96	81	91

导体标称截面积 Nominal sectional area of conductor mm²		载流量 A Current carrying capacity A		
		两根导体(单项)两芯或单芯电缆 Two pieces of conductor (single-phase) two-core or single-core cable	三根导体(三相)Three pieces of conductor (three-phase)	
			多芯或单芯电缆三角形排列 Multi-core or single-core cable Triangle arrangement	单芯电缆平列 Single-core cable Side-by-side arrangement
		1	2	3
(重载)750V Heavy-duty 750V	16	127	107	119
	25	166	140	154
	35	203	171	187
	50	251	212	230
	70	307	260	280
	95	369	312	334
	120	424	359	383
	150	485	410	435
	185	550	465	492
	240	643	544	572

注:1.对于单芯电缆,回路中各电缆的铜护套在两端连接在一起。

2. 成组电缆不需要乘校正系数。

Notes:1.For single-core cables,copper sheaths are connected on the two ends.

2. Group cables need not to be multiplied by correction coefficient.

附表 4　500V 及 750V 级铜芯铜护套矿物绝缘裸或防腐外护套电缆，允许人接触的铜护套温度:70℃/环境温度:30℃(自由空气)

Attached table 4 Copper-conductor copper sheathed mineral insulated bare cable or cable with anticorrosion sheath of class 500V and 750V, touchable temperature of copper sheath: 70℃/ambient temperature:30℃(Free air)

导体标称截面积 Nominal sectional area of conductor mm²		载流量 A Current carrying capacity A				
		两根导体(单项)两芯或单芯电缆 Two pieces of conductor (single-phase)two-core or single-core cable	三根导体(三相)Three pieces of conductor (three-phase)			
			多芯或单芯电缆三角形排列 Multi-core or single-core cable Triangle arrangement	单芯电缆平列 Single-core cable Side-by-side arrangement	单芯电缆垂直有间隙 Single-core cable Vertical with clearance	单芯电缆水平有间隙 Single-core cable Horizontal with clearance
		1	2	3	4	5
(轻载)500V Light-duty 500V	1.5	25	21	23	26	29
	2.5	33	28	31	34	39
	4	44	37	41	45	51
(重载)750V Heavy-duty 750V	1.5	26	22	26	28	32
	2.5	36	30	34	37	43
	4	47	40	45	49	56

导体标称截面积 Nominal sectional area of conductor mm^2		载流量 A Current carrying capacity A				
		两根导体(单项)两芯或单芯电缆 Two pieces of conductor (single-phase)two-core or single-core cable	三根导体(三相)Three pieces of conductor (three-phase)			
			多芯或单芯电缆三角形排列 Multi-core or single-core cable Triangle arrangement	单芯电缆平列 Single-core cable Side-by-side arrangement	单芯电缆垂直有间隙 Single-core cable Vertical with clearance	单芯电缆水平有间隙 Single-core cable Horizontal with clearance
		1	2	3	4	5
(重载)750V Heavy-duty 750V	6	60	51	57	62	71
	10	82	69	77	84	95
	16	109	92	102	110	125
	25	142	120	132	142	162
	35	174	147	161	173	197
	50	215	182	198	213	242
	70	264	223	241	259	294
	95	317	267	289	309	351
	120	364	308	331	353	402
	150	416	352	377	400	454
	185	472	399	426	446	507
	240	552	466	496	497	565

注:1.对于单芯电缆,回路中各电缆的铜护套在两端连接在一起。

2.对于易触及的裸电缆,表列数值应乘以 0.9。

Notes:1.For single-core cables,copper sheaths are connected on the two ends.

2.For touchable bare cables,the listed data should be multiplied by 0.9.

附表 5 500V 及 750V 级铜芯铜护套矿物绝缘裸电缆,不允许人接触的铜护套温度:105℃/环境温度:30℃(自由空气)

Attached table 5 Copper-conductor copper sheathed mineral insulated bare cable of class 500V and 750V, untouchable temperature of copper sheath: 105℃/ambient temperature:30℃(Free air)

导体标称截面积 Nominal sectional area of conductor mm^2		载流量 A Current carrying capacity A				
		两根导体(单项)两芯或单芯电缆 Two pieces of conductor (single-phase)two-core or single-core cable	三根导体(三相)Three pieces of conductor (three-phase)			
			多芯或单芯电缆三角形排列 Multi-core or single-core cable Triangle arrangement	单芯电缆平列 Single-core cable Side-by-side arrangement	单芯电缆垂直有间隙 Single-core cable Vertical with clearance	单芯电缆水平有间隙 Single-core cable Horizontal with clearance
		1	2	3	4	5
(轻载)500V Light-duty 500V	1.5	31	26	29	33	37
	2.5	41	35	39	43	49
	4	54	46	51	56	64

导体标称截面积 Nominal sectional area of conductor mm²		载流量 A Current carrying capacity A				
		两根导体(单项)两芯或单芯电缆 Two pieces of conductor (single-phase)two-core or single-core cable	三根导体(三相)Three pieces of conductor (three-phase)			
			多芯或单芯电缆三角形排列 Multi-core or single-core cable Triangle arrangement	单芯电缆平列 Single-core cable Side-by-side arrangement	单芯电缆垂直有间隙 Single-core cable Vertical with clearance	单芯电缆水平有间隙 Single-core cable Horizontal with clearance
		1	2	3	4	5
(重载)750VHeavy-duty 750V	1.5	33	28	32	35	40
	2.5	45	38	43	47	54
	4	60	50	56	61	70
	6	76	64	71	78	89
	10	104	87	96	105	120
	16	137	115	127	137	157
	25	179	150	164	178	204
	35	220	184	200	216	248
	50	272	228	247	266	304
	70	333	279	300	323	370
	95	400	335	359	385	441
	120	460	385	411	441	505
	150	526	441	469	498	565
	185	596	500	530	557	629
	240	697	584	617	624	704

注:1.对于单芯电缆,回路中各电缆的铜护套在两端连接在一起。

2.成组电缆不需要乘校正系数。

Notes:1.For single-core cables,copper sheaths are connected on the two ends.

2.Group cables need not to be multiplied by correction coefficient.

附表 6 500V 及 750V 级铜芯铜护套矿物绝缘电缆空气中(环境温度不等于 30℃时)的校正系数,应用于空气中敷设的电缆的载流量

Attached table 6 Correction coefficient of copper-conductor copper sheathed mineral insulated cable of class 500V and 750V in the air(ambient temperature not equal to 30℃),can be applied to the current-carrying of cables laid out in the air.

环境温度℃ Environment temperatire℃	防腐护套裸电缆, 允许人接触 70℃ Bare cable with anticorrosion sheath, touchable 70℃	裸电缆 不允许人接触 105℃ Bare cable Untouchable 105℃
10	1.26	1.14
15	1.20	1.11
20	1.14	1.07

环境温度℃ Environment temperatire℃	防腐护套裸电缆， 允许人接触 70℃ Bare cable with anticorrosion sheath, touchable 70℃	裸电缆 不允许人接触 105℃ Bare cable Untouchable 105℃
25	1.07	1.04
35	0.93	0.96
40	0.85	0.92
45	0.87	0.88
50	0.67	0.84
55	0.57	0.80
60	0.45	0.75
65	—	0.70
70	—	0.65
75	—	0.60
80	—	0.54
85	—	0.47
90	—	0.40
95	—	0.32

附表 7　500V 及 750V 级铜芯铜护套矿物绝缘电缆多回路或多根芯电缆成组校正系数，在应用于线管中或线槽中的电缆以及明敷电缆束时参照额定值

Attached table 7 When is applied to cables in line pipes or line ducts as well as exposed laying cable bunch,refer to the rated value for the group correction coefficient of multi circuits of copper-conductor copper sheathed mineral insulated cable of class 500V and 750V or multi-core cable.

项 Item	电缆的排列 Arrangement of cable	校正系数 Correction coefficient											
		回路或多芯电缆的数量 Quantity of circuit or multi-core cable											
		1	2	3	4	5	6	7	8	9	12	16	20
1	成束明敷暗敷或封闭在线管或线槽内 Exposed laying in bunch or enclosed in line pipe or line duct	1.00	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.45	0.41	0.38
2	单层敷设在墙上、楼板或无孔托盘上 Lay out single layer on wall, floor or hole-free tray	1.00	0.85	0.79	0.73	0.75	0.72	0.72	0.71	0.70	0.70	0.70	0.70

项 Item	电缆的排列 Arrangement of cable	校正系数 Correction coefficient											
		回路或多芯电缆的数量 Quantity of circuit or multi-core cable											
		1	2	3	4	5	6	7	8	9	12	16	20
3	单层直接敷设在木制楼板上 Lay out single layer on wooden floor directly	0.95	0.81	0.72	0.68	0.66	0.64	0.63	0.62	0.61	0.61	0.61	0.61
4	单层敷设在垂直或水平的托盘上 Lay out single layer on vertical or horizontal tray	1.0	0.88	0.82	0.77	0.75	0.73	0.73	0.72	0.72	0.72	0.72	0.72
5	单层敷设在梯形支撑或夹板等 Lay out single layer on ladder type support or plywood	1.0	0.87	0.82	0.80	0.80	0.79	0.79	0.78	0.78	0.78	0.78	0.78

注:1.表列系数适用于相同负载的均匀成组电缆。

2.相邻电缆之间的水平间隙大于二倍电缆总直径时,不需要乘降低系数。

Notes:1.The listed coefficients are suitable for uniform group cables that are same in load.

2.When horizontal clearance between two adjacent cables is larger than two times of overall diameter of cable,it need not to be multiplied by the reduction coefficient.

塑铜、铝线(布电线)

PLASTIC COPPER-ALUMINIUM WIRE(CLOTH WIRE)

打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

聚氯乙烯绝缘电缆(JB8734-2012)
PVC insulated wire(JB8734-2012)

一、用途 Usage

本产品适用于交流额定电压 450/750V 及以下的动力装置的固定敷设。
This product is fit for ac rated voltage 450/750V.

二、工作温度

BV-105 型不超过 105℃,其他不超过 70℃,敷设温度不低于 0℃。
BV-105 model not more than 105℃.others not more than 70℃ installation temperature not lower than 0℃.

三、型号、名称 (见表 1) Model and name: (see tble 1)

表 1
table 1

型 号 Model	名 称 Name
BV	铜芯聚氯乙烯绝缘电线 Copper core PVC insulation power line
BLV	铝芯聚氯乙烯绝缘电线Aluminium core PVC insulation power line
BVR	铜芯聚氯乙烯绝缘软电线Copper core PVC insulation flexible power line
BVV	铜芯聚氯乙烯绝缘聚氯乙烯护套圆形电线Copper core PVC insulation PVC sheath round power line
BVVB	铜芯聚氯乙烯绝缘聚氯乙烯护套平形电线Copper core PVC insulation PVC sheath parellel power line
BLVVB	铝芯聚氯乙烯绝缘聚氯乙烯护套平形电线Copper core PVC insulation PVC sheath parellel power line
BV-105	铜芯耐热 105℃聚氯乙烯绝缘电线Copper core heat-resistance 105℃ PVC insulation power line

四、规格尺寸及技术参数（见表2-6）。Specification，size and technological parameter (see table2-6)

BV 300/500V

表 2
table 2

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)	20℃导体电阻≤(Ω/km) Conductor resistance at 20℃≤(Ω/km)
0.5	1/0.80	2.4	8.5	36.0
0.75(A)	1/0.97	2.6	11.1	24.5
0.75(B)	7/0.37	2.8	12.0	24.5
1.0(A)	1/1.13	2.8	13.9	18.1
1.0(B)	7/0.43	3.0	15.0	18.1

BV BLV(BV-105)450/750V

表 3
table 3

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight(kg/km)		20℃导体电阻≤(Ω/km) Conductor resistance at 20℃≤(Ω/km)	
			铜 copper	铝 aluminum	铝 aluminum	铜 copper
1.5(A)	1/1.38	3.3	20.3	–	–	12.1
1.5(B)	7/0.52	3.5	21.6	–	–	12.1
2.5(A)	1/1.78	3.9	31.6	17	11.8	7.41
2.5(B)	7/0.68	4.2	34.8	–	–	7.41
4(A)	1/2.55	4.4	47.1	22	7.39	4.61
4(B)	7/0.85	4.8	50.3	–	–	–

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight(kg/km)		20℃导体电阻≤(Ω/km) Conductor resistance at 20℃≤(Ω/km)	
			铜 copper	铝 aluminum	铝 aluminum	铜 copper
6(A)	7/2.78	4.8	50.3	29	4.91	3.08
6(B)	7/1.04	5.4	71.2	–	–	3.08
10	7/1.35	7.0	119	62	3.08	1.83
16	7/1.70	8.0	179	78	1.91	1.15
25	7/2.14	10.0	281	118	1.20	0.727
35	7/2.52	11.5	381	156	0.868	0.524
50	19/1.78	13.0	521	215	0.641	0.387
70	19/2.14	15.0	734	282	0.443	0.268
95	19/2.52	17.5	962	385	0.320	0.193
120	37/2.03	19.0	1180	431	0.253	0.153
150	37/2.25	21.0	1470	539	0.206	0.124
185	37/2.52	23.5	1810	666	0.164	0.0991
240	61/2.25	26.5	2350	857	0.125	0.0754
300	61/2.52	29.5	2930	1070	0.100	0.0601
400	61/2.85	33.0	3870	1390	0.0778	0.0470

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter(mm²)		参考重量 Reference weight(kg/km)		20℃导体电阻≤(Ω/km) Conductor resistance at 20℃≤(Ω/km)	
		铝 aluminum	铜 copper	铜 copper	铝 aluminum	铜 copper	铝 aluminum
2 × 0.75	2 × 1/0.97	–	4.6 × 7.0	43.7	24.5	–	–
2 × 1.0	2 × 1/1.13	–	4.8 × 7.4	51.0	18.1	–	–
2 × 1.5	2 × 1/1.38	–	5.4 × 8.4	65.9	12.1	–	–
2 × 2.5	2 × 1/1.78	6.2 × 9.8	6.0 × 9.8	95.7	64.9	7.41	11.8
2 × 4	2 × 1/2.25	6.8 × 11.0	7.2 × 11.5	146.0	80.7	4.61	7.39
2 × 6	2 × 7/1.04	7.4 × 12.0	8.0 × 13.0	200.0	104	3.08	4.91
2 × 10	2 × 7/1.35	9.6 × 16.0	9.6 × 16.0	323.0	177	1.83	3.08
2 × 0.75	2 × 1/0.97	–	4.6 × 9.4	62.6	–	24.5	–
2 × 1.0	2 × 1/1.13	–	4.8 × 9.8	74.3	–	18.10	–
2 × 1.5	2 × 1/1.38	–	5.4 × 11.5	95.6	–	12.10	–
2 × 2.5	2 × 1/1.78	6.2 × 13.5	6.2 × 13.5	140	93.9	7.41	11.8
2 × 4	2 × 1/2.25	7.0 × 15.0	7.4 × 16.5	220	123	7.41	7.39
2 × 6	2 × 7/1.04	7.4 × 17.0	8.0 × 18.0	295	153	4.61	4.91
2 × 10	2 × 7/1.35	9.6 × 22.5	9.6 × 22.5	485	261	1.83	3.08

BVV450/750V

表 5
table 5

标称截面 Nominal section (mm²)	线芯结构 structure of core 芯×根数/线径 core×number/diameter (mm)	外径最大值 Maximum value of outer diameter (mm²)	参考重量 Reference weight(kg/km)
1 × 0.75	1 × 1/0.97	4.3	23

标称截面 Nominal section （mm^2）	线芯结构 structure of core 芯×根数/线径 core×number/diameter(mm)	外径最大值 Maximum value of outer diameter （mm^2）	参考重量 Reference weight(kg/km)
1 × 1.0	1 × 1/1.3	4.5	26.4
1 × 1.5(A)	1 × 1/1.38	4.9	34.6
1 × 1.5(B)	1 × 7/0.52	5.2	36.5
1 × 2.5(A)	1 × 1/1.78	5.8	46.4
1 × 4(A)	1 × 1/2.25	6.4	65.9
1 × 4(B)	1 × 7/0.85	6.8	73.7
1 × 6(A)	1 × 1/2.76	7.0	91.6
1 × 10	1 × 7/1.35	8.8	152.0
2 × 1.5(A)	2 × 1/1.38	9.8	109
2 × 1.5(B)	2 × 7/0.52	10.5	123
2 × 2.5(A)	2 × 1/1.78	11.5	157
2 × 2.5(B)	2 × 7/0.68	12.0	172
2 × 4(A)	2 × 1/2.25	12.5	205
2 × 4(B)	2 × 7/0.85	13.0	222
2 × 6(A)	2 × 1/2.76	13.5	265
2 × 6(B)	2 × 7/1.04	14.5	286
2 × 10	2 × 7/1.35	18.0	471
3 × 1.5(A)	3 × 1/1.38	10.5	136
3 × 1.5(B)	3 × 7/0.52	11.0	146
3 × 2.5(A)	3 × 1/1.78	12.0	190
3 × 2.5(B)	3 × 7/0.68	12.5	207
3 × 4(A)	3 × 1/2.25	13.0	252
3 × 4(B)	3 × 7/0.85	14.0	272
3 × 6(A)	3 × 1/2.76	14.5	344
3 × 10	3 × 7/1.35	19.0	574
4 × 1.5(A)	4 × 1/1.38	11.5	164
4 × 1.5(B)	4 × 7/0.52	12.0	174
4 × 2.5(B)	4 × 7/0.68	13.5	252
4 × 4(A)	4 × 1/2.25	14.5	321
4 × 4(B)	4 × 7/0.85	15.5	346
4 × 6(A)	4 × 1/2.76	16.0	439
4 × 6(B)	4 × 7/1.04	17.5	470
5 × 1.5(A)	5 × 1/1.38	12.0	192
5 × 1.5(B)	5 × 7/0.52	12.5	205
5 × 2.5(A)	5 × 1/1.78	14.0	272
5 × 2.5(B)	5 × 7/0.68	14.5	292
5 × 4(A)	5 × 1/2.25	16.0	379
5 × 4(B)	5 × 7/0.85	17.0	418
5 × 6(A)	5 × 1/2.76	17.5	518
5 × 6(B)	5 × 7/1.04	18.5	550

BVR 450/750V

表 6 table 6

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)	20℃导体电阻 ≤(Ω/km) Conductor resistance at 20℃≤(Ω/km)
2.5	19/0.41	4.2	34.7	7.41
4	19/0.52	4.8	51.4	4.61
6	19/0.64	5.6	73.6	3.08
10	49/0.52	7.6	129	1.83
16	49/0.64	8.8	186	1.15
25	98/0.58	11.0	306	0.727
358	133/0.58	12.5	403	0.524
50	133/0.68	14.5	553	0.387
70	189/0.68	16.5	764	0.268

四、技术性能

1）成品绝缘线和成品电线，放在 20±5℃的室温水中至少 1h 后，能经受表 7 规定的交流电压试验。

2）电线具有良好的电气绝缘性能、力学性能和不延性能，质量可靠，方便耐用。

3）成品电线的绝缘或护套表面应有生产厂名、型号和电压的连续标志。

1）Finished insulation core and finishcd power linc are put into the water at the temperaure 20±5℃ for an hour.they should be able to experience the AC voltage testing.

2）Outer power line is good at insulation propetry.machines property and non-inflammability with reliable quality and convenient durability.

3）Finished power line should have products name,model and voltage signs.

表 7

试验名称 Testing name	试验项目 Testing item		试验值 Testing value	
			电线额定电压 Rated voltage of wire	
			300/500V	450/750V
成品绝缘线芯电压试验 Finished insulation wire voltage testing	试验电压(V):按绝缘厚度 testing voltage:in accordance with insulation thickness	0.6mm 及以下 0.6mm amd below	1500	
		0.6mm 及以上 0.6mm amd below	2000	
	电压施加时间不小于(min) Voltage bring to bear on time not less than		5	
成品电线电压试验 Finished product wire voltage testing	试验电压 Testing voltage		2000	
	电压施加时间不小于 Voltage bring to bear on time not less than		5	

聚氯乙烯绝缘电线(GB/T5023.3–2008)
PVC insulation flexible wire(GB/T5023.3–2008)

一、用途 Usage

本产品适用于交流额定电压 450/750V 及以下的家用电器、小型电动工具、仪器仪表及动力照明用装置连接。

The product is fit for ac rated voltage450/750V and below of domestic electrical appliances of smaller size electric tools,instruments,various meters and motorized lighting installations.

二、使用条件

长期允许工作温度：RV–105 型不超过 105℃；其他型号不超过 70℃。

Working temperature:not more than 105℃ for Rv–105 model.the other no more than 70℃.

三、型号、名称见表 1 Model and name:see table 1

表 1
table 1

型　号 Model	名　称 Name
RV	铜芯聚氯乙烯绝缘连接软电线Copper core PVC insulation jointed flexible line
RVB	铜芯聚氯乙烯绝缘平形连接软电线Copper core PVC insulation paralled jonted flexible line
RVS	铜芯聚氯乙烯绝缘绞形连接软电线Copper core PVC insulation twisted joint flexible line
RVV	铜芯聚氯乙烯绝缘氯乙烯护套圆形连接软电线Copper core PVC insulation sheath paralled joint flexible line
RVVB	铜芯聚氯乙烯绝缘氯乙烯护套平形连接软电线Copper core PVC insulation sheath paralled joint flexible line
RV–105	铜芯耐热 105℃聚氯乙烯绝缘连接软电线Copper core heat–resistance 105℃ PVC insulation joint flexible line

RV 300/500V

表 2
table 2

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)
0.3	16/0.15	2.3	6.4
0.4	23/0.15	2.5	8.1
0.5	16/0.2	2.6	9.1
0.75	24/0.2	2.8	12.2
1.0	32/0.2	3.0	15.1

RV 450/750V

表 3
table 3

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)
1.5	30/0.25	3.5	21.4
2.5	49/0.25	4.2	24.5
4	56/0.20	4.8	51.8
6	84/0.30	6.4	74.1
10	84/0.30	8.0	12.4

RVB 300/300V

表 4
table 4

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)
2 × 0.3	2 × 16/0.15	3.5	21.4
2 × 0.4	2 × 23/0.15	4.2	24.5
2 × 0.5	2 × 28/0.15	4.8	51.8
2 × 0.75	2 × 42/0.15	6.4	74.1
2 × 1.0	2 × 32/0.20	8.0	12.4

RVS 300/300V

表 5
table 5

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)
2 × 0.3	2 × 16/0.15	4.3	12.8
2 × 0.4	2 × 23/0.15	4.6	16.2
2 × 0.5	2 × 28/0.15	5.8	22.9
2 × 0.75	2 × 42/0.15	6.2	29.6

RVV 300/500V

表 6
table 6

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)
2 × 0.75	2 × 24/0.20	7.6	50
2 × 1.0	2 × 32/0.20	7.8	57.8
2 × 1.5	2 × 30/0.25	8.8	74.7
2 × 2.5	2 × 49/0.25	11.0	120
3 × 0.75	3 × 24/0.20	8.0	63.1
3 × 1.0	3 × 32/0.20	8.4	74.0
3 × 1.5	3 × 30/0.25	9.6	102.0
3 × 2.5	3 × 49/0.25	11.5	162.0
4 × 0.75	4 × 24/0.20	8.6	78.5
4 × 1.0	4 × 32/0.20	9.2	97.2
4 × 1.5	4 × 30/0.25	11.0	133.0
4 × 2.5	4 × 49/0.25	12.5	204.0
5 × 0.75	5 × 24/0.20	9.4	96.9
5 × 1.0	5 × 32/0.20	11.0	115
5 × 1.5	5 × 30/0.25	12.0	158
5 × 2.5	5 × 49/0.25	14.0	249

RVVB 300/300V

表 7
table 7

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)
2 × 0.5	2 × 16/0.2	3.0 × 6.0	27.7
2 × 0.75	2 × 24/0.2	3.9 × 6.4	34.5

RV-105 450/750V

表 8
table 8

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)
0.5	16/0.2	2.4	10.2
0.75	24/0.2	3.0	13.5
1.0	32/0.2	3.2	16.4
1.5	30/0.25	3.5	21.4
2.5	49/0.25	4.2	34.5
4	56/0.30	4.8	51.8
6	84/0.30	6.4	74.1

聚氯乙烯绝缘屏蔽电线(GB/T5023.5-2008)
PVC insulation shielded wire(GB/T5023.5-2008)

一、用途 Usage

本产品适用于交流额定电压 300/300V 及以下电器、仪表、电子设备及自动化装置; 本产品采用的标准与国际电工委员会 IEC227(1979) 标准的规定相一致。

This product is suitable for ac rated voltage 300/300V electric appliances, instrumens and meters, electro-equipments and automatic installations. dur standard for this product is based on the standard by international electric commission IEC 227 (1979) and is exactly the same.

table 1

型　号 Model	名　称 Name
AVP	铜芯聚氯乙烯绝缘屏蔽电线Copper core PVC insulation shielded wire
AVP-105	铜芯耐热 105℃聚氯乙烯绝缘屏蔽电线 Heat-resistant 105℃ PVC insulation shielded wire
RVP	铜芯聚氯乙烯绝缘屏蔽软电线Copper core PVC insulation shielded flexible wire
RVP-105	铜芯耐热 105℃聚氯乙烯绝缘屏蔽软电线 Heat-resistant 105℃ PVC insulation shielded flexible wire
RVVP	铜芯聚氯乙烯绝缘屏蔽聚氯乙烯护套软电线PVC insulation shielded PVC sheath flexible wire
RVVP1	铜芯聚氯乙烯绝缘缠绕屏蔽聚氯乙烯护套软电线PVC insulation entangled shielded PVC sheath flexible wire

AVP、AVP-105 300/300V

表 2
table 2

标称截面 Nominal section (mm^2)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm^2)	参考重量 Reference weight (kg/km)	20℃导体电阻 ≤(Ω/km) Conductor resistance at20℃ ≤(Ω/km)
0.20	1/0.50	2.0	7.3	92.3
0.30	1/0.60	2.1	8.8	64.1
0.40	1/0.70	2.2	10.0	47.1

RVP、RVP-105 300/300V

表 3
table 3

标称截面 Nominal section (mm^2)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm^2)	参考重量 Reference weight (kg/km)	20℃导体电阻 ≤(Ω/km) Conductorresistanceat20℃ ≤(Ω/km)
0.20	12/0.15	2.1	8.3	92.3
0.30	16/0.15	2.4	10.5	69.2
0.40	23/0.15	2.8	15.9	48.2
0.50	16/0.20	2.9	16.8	39.0
0.75	24/0.20	3.1	20.9	26.0
1.0	32/0.20	3.5	26.5	19.5
1.5	30/0.25	3.9	32.4	13.3
2.5	49/0.25	4.5	48.2	7.98

RVP、RVP-105 300/300V 二芯椭圆型
RVP、RVP-105 300/300V 2-core ellipse model

表 4
table 4

标称截面 Nominal section (mm^2)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm^2)	参考重量 Reference weight (kg/km)	20℃导体电阻 ≤(Ω/km) Conductorresistanceat20℃ ≤(Ω/km)
2 × 0.20	2 × 12/0.15	2.4 × 4.0	14.7	92.3
2 × 0.30	2 × 16/0.15	2.7 × 4.8	19.7	69.2
2 × 0.40	2 × 23/0.15	3.1 × 5.2	28.1	48.2
2 × 0.50	2 × 16/0.20	3.2 × 5.4	29.9	39.0
2 × 0.75	2 × 24/0.20	3.4 × 5.8	37.5	26.0
2 × 1.00	2 × 32/0.20	3.8 × 6.6	48.6	19.5
2 × 1.50	3 × 30/0.25	4.2 × 7.2	59.9	13.3

RVVP、RVVP$_1$ 300/300V 二芯

RVVP、RVVP$_1$ 300/300V2-core

表 5
table 5

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)	20℃导体电阻 ≤(Ω/km) Conductorresistanceat20℃≤(Ω/km)
2 × 0.20	2 × 12/0.15	5.4	33.2	92.3
2 × 0.30	2 × 16/0.15	6.2	49.3	69.2
2 × 0.40	2 × 23/0.15	6.6	57.0	48.2
2 × 0.50	2 × 16/0.20	6.8	59.2	39.0
2 × 0.75	2 × 24/0.20	7.2	70.7	26.0
2 × 1.00	2 × 32/0.20	8.0	86.7	19.5
2 × 1.50	3 × 30/0.25	9.0	110.4	13.3

RVVP、RVVP$_1$ 300/300V 二芯

RVVP、RVVP$_1$ 300/300V2-core

表 6
table 6

标称截面 Nominal section (mm²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)	20℃导体电阻 ≤(Ω/km) Conductorresistanceat20℃≤(Ω/km)
3 × 0.20	3 × 12/0.15	6.0	38.6	92.3
3 × 0.30	3 × 16/0.15	6.6	48.6	69.2
3 × 0.40	3 × 23/0.15	6.8	56.7	48.2
3 × 0.50	3 × 16/0.20	7.0	60.7	39.0
3 × 0.75	3 × 24/0.20	7.6	73.6	26.0
3 × 1.0	3 × 32/0.20	8.8	100	19.5
3 × 1.5	3 × 30/0.25	9.8	131	13.3
4 × 0.20	4 × 12/0.15	6.2	45.9	92.3
4 × 0.30	4 × 16/0.15	7.0	57.5	69.2
4 × 0.40	4 × 23/0.15	7.4	67.9	48.2
5 × 0.20	5 × 12/0.15	6.6	52.7	92.3
5 × 0.30	5 × 16/0.15	7.6	66.6	69.2
5 × 0.40	5 × 23/0.15	8.0	78.8	48.2
6 × 0.20	6 × 12/0.15	7.2	59.6	92.3
6 × 0.30	6 × 16/0.15	8.0	76.6	69.2
6 × 0.40	6 × 23/0.15	9.0	98.3	48.2
7 × 0.20	7 × 12/0.15	7.2	64.2	92.3
7 × 0.30	7 × 16/0.15	8.0	82.3	69.2
7 × 0.40	7 × 23/0.15	9.0	106.0	48.2
10 × 0.20	10 × 12/0.15	9.0	94.3	92.3
10 × 0.30	10 × 16/0.15	10.5	132.0	69.2
10 × 0.40	10 × 23/0.15	11.5	157.0	48.2
12 × 0.20	12 × 12/0.15	9.2	105	92.3
12 × 0.30	12 × 16/0.15	11.0	147	69.2
12 × 0.40	12 × 23/0.15	11.5	175	48.2

五、交货要求 Delivery requirements

1. 根据双方的协议以任意长度交货。

2. 电缆应整齐卷绕在交货盘上，端头应密封良好，露出电缆盘外面的长度应满足测试要求，一只交货盘上只允许卷绕同一型号规格的电缆。

3. 当双方无协议时，可按下表要求交货。

1. The length of cables should be in accordance with mutual agreements.

2. Cables deliverty should be coiled orderly. Cable tip should be closely. wrapped and seald. Exposed cable tip for Ac testing should be long enough to meet the needs.The coiled cable must be in the same model and the same specification.

3. If there is no agreement,the requirements can be in accordance with the contents of following table.

电缆名称Cable name	交货长度(m)		短度比例	计量误差
	标准	短段		
聚氯乙烯绝缘电线 PVC insulating wire	100	10	10%	
额定电压 y300/500V 橡皮绝缘固定敷设电线 Rubber insulation fixed laying wire at 300/500V rated voltage	100	20	10%	±0.5%
聚氯乙烯绝缘软电线 PVC insulating soft wire	100	10	10%	
聚氯乙烯绝缘屏蔽电线 PVC insulating shielded wire	100	10	10%	

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硅橡胶绝缘电力电缆
Silica Rubber Insulation Power Cable

1. 执行标准 >> Executive standard

SH/SL01

2. 用途 >> Application

适用于发电、冶金、化工工业等高温环境移动电器用设备之间电器连接。

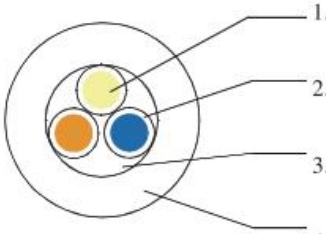
It is used for electric connection of mobile electric devices in environment with high temperature in power, metallurgy, chemical industry, etc.

3. 型号和名称 >> Type and designation

型号 Type	名称 Designation
YGC	铜芯硅橡胶绝缘及护套软电缆 Cu conductor SIR & sheathed soft cable
YGC-F_{46}R	铜芯聚全氟乙丙烯绝缘硅橡胶护套软电缆 Cu conductor F_{46} sheathed & SIR sheathed soft cable

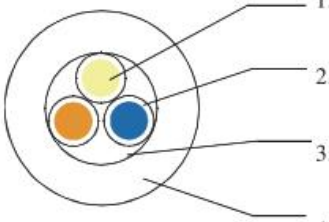
4. 结构如下图 >> Structural Figure

YGC



1. 导体:(镀锡)铜线
   Conductor:(Tinned) Cu Wire
2. 绝缘层:硅橡胶
   Insulation:Silica Rubber
3. 绕包层
   Wrapping Layer
4. 护层:硅橡胶
   Protection Layer:Silica Rubber

YGC-F_{46}R



1. 导体:(镀锡)铜线
   Conductor:(Tinned) Cu Wire
2. 绝缘层:F_{46}
   Insulation:F_{46}
3. 绕包层
   Wrapping Layer
4. 护层:硅橡胶
   Protection Layer:Silica Rubber

5. 使用特性及主要技术性能指标>> Using feature & Main Technical Performance

4.1 额定电压 Uo/U 为 0.6/1kV;

4.2 电缆长期工作温度为-60℃-180℃;

4.3 导体直流电阻符合 GB/T3956 的规定;

4.4 电缆的最小弯曲半径应不小于电缆外径的 6 倍;

4.5 电缆具有耐高温、耐低温、柔软、耐腐蚀等优点;

4.6 电缆经过 3.5kV/5min 工频耐压试验不击穿。

4.1 Rated voltage Uo/U:0.6/1kV;

4.2 The Max.Long-term operating temperature of cable is -60℃-180℃;

4.3 D.C conductor resistance complies with the stipulations of GB/T3956;

4.4 The Min.bending radius should be no smaller than 6 times of cable outer diameter.

4.5 The cable is resistant to high temperature & low temperature, soft and it is resistant to corrosiveness.

4.6 Working frequen voltage test for cable with 3.5kV/5min without puncture.

6. 规格及参考数据 >> Specification & reference data:

标称截面 mm^2 Nominal Cross-section area mm^2	芯数结构 根/mm Core number & specification Pieces / mm	电缆外径 mm Cable outer diameter mm	近似重量 kg/km Approximate weight kg/km	20℃时导体电阻 (Ω/km)≤ Conductor resistance at 20℃≤(Ω/km)
3 × 4	56 / 0.30	17.0	258	4.95
3 × 6	84 / 0.30	21.0	399	3.30
3 × 10	77 / 0.41	26.5	662	1.91
3 × 16	119 / 0.41	29.5	890	1.21
3 × 25	189 / 0.41	36.0	1338	0.780
3 × 35	259 / 0.41	39.5	1780	0.554
3 × 50	378 / 0.41	48.0	2440	0.386
3 × 70	518 / 0.41	52.5	3150	0.272
3 × 95	703 / 0.41	59.0	4145	0.206
3 × 120	888 / 0.41	66.5	5266	0.161
3 × 150	1110 / 0.41	73.0	6466	0.129
3 × 185	1369 / 0.41	79.5	7899	0.106
3 × 240	1769 / 0.41	90.5	10160	0.0801
3 × 4+1 × 2.5	56 / 0.30+50 / 0.25	18.5	340	4.95 / 7.98
3 × 6+1 × 4	84 / 0.30+56 / 0.30	22.5	476	3.30 / 4.95
3 × 10+1 × 6	77 / 0.41+84 / 0.30	29.0	770	1.91 / 3.30
3 × 16+1 × 10	119 / 0.41+77 / 0.41	31.5	1080	1.21 / 1.91
3 × 25+1 × 16	189 / 0.41+119 / 0.41	38.0	1580	0.780 / 1.21

3 × 35+1 × 16	259 / 0.41+119 / 0.41	41.5	1960	0.554 / 1.21
3 × 50+1 × 25	378 / 0.41+189 / 0.41	50.0	2800	0.386 / 0.780
3 × 70+1 × 35	518/0.41+259/0.41	55.5	3650	0.272 / 0.554
3 × 95+1 × 50	703 / 0.41+378 / 0.41	63.5	4880	0.206 / 0.386
3 × 120+1 × 70	888 / 0.41+518 / 0.41	72.0	6220	0.161 / 0.272
3 × 150+1 × 70	1110 / 0.41+518 / 0.41	76.5	7400	0.129 / 0.272
3 × 185+1 × 95	1369 / 0.41+703 / 0.41	83.5	9130	0.106 / 0.206
3 × 240+1 × 120	1769 / 0.41+888 / 0.41	95.0	11750	0.0801 / 0.161

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聚氯乙烯绝缘护套控制电缆
PVC insulated sheath control cable

一、型号及名称见表 1 Model and name:see table 1

表 1
table 1

型 号 Model	名 称 Name	主要使用范围 Main applications
KVV	铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆 Copper conductor PVC Insulated and sheathed control cable	敷设在室内、电缆沟、管道等要求屏蔽的固 定场合 Fpr laying indoors,in trenches and in duests,For fixed installation
KVVP	铜芯聚氯乙烯绝缘编织屏蔽聚氯乙烯护套控制电缆 Copper conductor PVC Insulated & sheathed copper wire braiding sereened control cable	敷设在室内、电缆沟、管道等要求屏蔽的固 定场合 Fpr laying indoors,in trenches and in ducsts,For fixed installation
$KVVP_2$	铜芯聚氯乙烯绝缘铜带屏蔽聚氯乙烯护套控制电缆 Copper conductor PVC Insulated and sheathed control cable with steel tape shidld	敷设在室内、电缆沟、管道等要求屏蔽的固 定场合 Fpr laying indoors,in trenches and in ducsts,For fixed installation
KVV_{22}	铜芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套控制电缆 Copper conductor PVC Insulated and sheathed control cable with steel tape armmour	敷设在室内、电缆沟、管道、直埋承受较大机械外力的固定场合 Fpr laying indoors,in trenches,in ducsts and in ground,able to withstand heavier mechanical foree,and for fixed installation
KVVR	铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆 Copper conductor PVC Insulated flexobe control cable	敷设在室内移动要求柔软等场合 For laying indoors,,movable and flexible
ZR-KVVRP	铜芯聚氯乙烯绝缘编织屏蔽聚氯乙烯护套阻燃控制软电缆 Copper conductor PVC insulated & sheathed copper wire braiding sereened flexobe scontrol cable	敷设在室内移动要求柔软屏蔽等场合 For laying indoors with capabillity of moving and screening
ZR-KVV	铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃控制电缆 Copper conductor PVC Insulated and sheathed flame retardant control cable	敷设在有阻燃要求的室内、电缆沟、管道等固定场合 For laying indoors in trenches,in ducts and for fixed instalation,the cable should be flame retardance
$ZR-KVVP_2$	铜芯聚氯乙烯绝缘铜带屏蔽聚氯乙烯护套阻燃控制电缆 Copper conductor PVC Insulated and sheathed flameretardant control cable with steel taoe shield	敷设在有阻燃要求的室内、电缆沟、管道等固定场合 For laying indoors in trenches,in ducts and for fixed instalation,the cable should be flame retardance
ZR-KVV22	铜芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套阻燃控制电缆 Copper conductor PVC Insulated and sheathed flameretardant control cable with steel taoe armour	敷设在阻燃要求的室内、电缆沟、管道直理等能承受较大机械外力固定场合 Copper conductor PVC Insufated and underground,the cable should be flamerelardance and able to bear beavier extermal mechanical force,an for fixed installatin
ZR-KVVR	铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃控制软电缆 Copper conductor PVC Insulated and sheathed flameretardant flameretardant flexobe control cable	敷设在有阻燃要求的室内可移动柔软等场合 For laying indoors ,and the cable should be falme-reatardant flexible and movable

二、电缆结构材料及性能 Construction size and Properties of cables

KVV 型,ZR-KVV 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆

Type KVV,ZR-KVV 450/750 Copper Conductor PVC Insulated and Sheathed Control Cable

表 2
table 2

芯数×标称截面 Cross×Nom cross-sectional area mm^2	绝缘标称厚度 Nom thickness of Insulation mm	护套标称厚度 Nom thickness of Sheath mm	平均外径 Pitch Diameter mm		最小绝缘电阻 max.D.C Resistanceof Insulation at 20℃ Ω-km	最大直流电阻 max.D.C Resistance of at 20℃ Ω-km	近似重量 Approx weight (kg/km)
			下限 min	上限 max			
2×0.75	0.6	1.2	6.4	8.0	0.012	24.5	59
2×1.0	0.6	1.2	6.8	8.4	0.011	18.1	67
2×1.5	0.7	1.2	7.6	9.4	0.011	12.1	86
2×2.5	0.8	1.2	8.6	10.5	0.010	7.41	120
2×4	0.8	1.2	9.6	11.5	0.0085	4.61	167
2×6	0.8	1.2	10.5	12.5	0.0070	3.08	220
3×0.75	0.6	1.2	6.8	8.4	0.012	24.5	71
3×1.0	0.6	1.2	7.0	8.8	0.011	18.1	82
3×1.5	0.7	1.2	8.0	9.8	0.011	12.1	108
3×2.5	0.8	1.2	9.2	11.0	0.010	7.41	154
3×4	0.8	1.2	10.0	12.5	0.0085	4.61	210
3×6	0.8	1.5	11.5	14.0	0.0070	3.08	310
4×0.75	0.6	1.2	7.2	9.0	0.012	24.5	846
4×1.0	0.6	1.2	7.6	9.4	0.011	18.1	100
4×1.5	0.7	1.2	8.6	10.5	0.011	12.1	132
4×2.5	0.8	1.2	10.0	12.0	0.010	7.41	193
4×4	0.8	1.5	11.5	14.0	0.0085	4.61	315
4×6	0.8	1.5	12.5	15.0	0.0070	3.08	413
5×0.75	0.6	1.2	7.8	9.6	0.012	24.5	99
5×1.0	0.6	1.2	8.2	10.0	0.011	18.1	116
5×1.5	0.7	1.2	9.4	11.5	0.011	12.1	154
5×2.5	0.8	1.5	11.5	14.0	0.010	7.41	243
5×4	0.8	1.5	12.5	15.0	0.0085	4.61	383
5×6	0.8	1.5	14.0	16.5	0.0070	3.08	505
7×0.75	0.6	1.2	8.4	10.5	0.012	24.5	123
7×1.0	0.6	1.2	9.0	11.0	0.011	18.1	146
7×1.5	0.7	1.2	10.0	12.5	0.011	12.1	196
7×2.5	0.8	1.5	12.5	15.0	0.010	7.41	211
7×4	0.8	1.5	13.5	16.5	0.0085	4.61	473
7×6	0.8	1.5	15.0	18.0	0.0070	3.08	652

8×0.75	0.6	1.2	9.4	11.5	0.012	24.5	142
8×1.0	0.6	1.2	10.0	12.0	0.011	18.1	1168
8×1.5	0.7	1.2	12.0	14.5	0.011	12.1	243
8×2.5	0.8	1.5	14.0	16.5	0.010	7.41	360
8×4	0.8	1.5	15.5	18.0	0.0085	4.61	545
8×6	0.8	1.5	177.5	20.0	0.0070	3.08	748
10×0.75	0.6	1.2	10.5	12.5	0.012	24.5	187
10×1.0	0.6	1.5	11.5	14.0	0.011	18.1	221
10×1.5	0.7	1.5	13.5	16.0	0.011	12.1	296
10×2.5	0.8	1.5	15.5	18.5	0.010	7.41	440
10×4	0.8	1.7	18.0	20.5	0.0085	4.61	721
10×6	0.8	1.7	19.5	22.5	0.0070	3.08	956
12×0.75	0.6	1.5	11.5	13.5	0.012	24.5	211
12×1.0	0.6	1.5	12.0	14.5	0.011	18.1	250
12×1.5	0.7	1.5	14.0	16.5	0.011	12.1	338
12×2.5	0.8	1.5	16.0	19.0	0.010	7.41	507
12×4	0.8	1.7	18.5	21.5	0.0085	4.61	825
12×6	0.8	1.7	20.5	23.5	0.0070	3.08	1026

KVV 型,ZR-KVV 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆

Type KVV,ZR-KVV 450/750 Copper Conductor PVC Insulated and Sheathed Control Cable

表 2
table 2

芯数×标称截面 Cross×Nom cross-sectional area mm²	绝缘标称厚度 Nom thickness of Insulation mm	护套标称厚度 Nom thickness of Sheath mm	平均外径 Pitch Diameter mm		最大绝缘电阻 max.D.C Resistanceof Insulation at 20℃ Ω-km	最大直流电阻 max.D.C Resistance of at 20℃ Ω-km	近似重量 Approx weight (kg/km)
			下限 min	上限 max			
14×0.75	0.6	1.5	12.0	14.5	0.012	24.5	238
14×1.0	0.6	1.5	12.5	15.0	0.011	18.1	328
14×1.5	0.7	1.5	14.5	17.0	0.011	12.1	384
14×2.5	0.8	1.5	17.0	19.5	0.010	7.41	579
14×4	0.8	1.7	19.5	22.5	0.0085	4.61	959
14×6	0.8	1.7	21.5	24.5	0.0070	3.08	1246
16×0.75	0.6	1.5	12.5	15.0	0.012	24.5	2268
16×1.0	0.6	1.5	13.0	15.5	0.011	18.1	315
16×1.5	0.7	1.5	15.0	18.0	0.011	12.1	427
16×2.5	0.8	1.7	18.0	21.0	0.010	7.41	664
19×0.75	0.6	1.5	13.0	15.5	0.012	24.5	299
19×1.0	0.6	1.5	14.0	16.5	0.011	18.1	359
19×1.5	0.7	1.5	16.0	19.0	0.011	12.1	490
19×2.5	0.8	1.7	19.0	22.0	0.010	7.41	765
24×0.75	0.6	1.5	15.0	18.0	0.012	24.5	373
24×1.0	0.6	1.5	16.0	19.0	0.011	18.1	447
24×1.5	0.7	1.5	19.0	22.0	0.011	12.1	632
24×2.5	0.8	1.7	22.5	25.5	0.010	7.41	961
27×0.75	0.6	1.5	15.5	18.0	0.012	24.5	407
27×1.0	0.6	1.5	16.5	19.0	0.011	18.1	491
27×1.5	0.7	1.5	19.5	22.5	0.011	12.1	694
27×2.5	0.8	1.7	23.0	26.0	0.010	7.41	1061
30×0.75	0.6	1.5	16.0	19.0	0.012	24.5	445
30×1.0	0.6	1.5	17.5	20.5	0.011	18.1	554
30×1.5	0.7	1.5	20.0	23.0	0.011	12.1	761
30×2.5	0.8	1.7	24.0	27.0	0.010	7.41	1167

37×0.75	0.6	1.5	17.5	20.5	0.012	24.5	544
37×1.0	0.6	1.5	18.5	21.5	0.011	18.1	658
37×1.5	0.7	1.5	21.5	25.0	0.011	12.1	908
37×2.5	0.8	1.7	25.5	29.0	0.010	7.41	1401
44×0.75	0.6	1.5	19.5	23.0	0.012	24.5	642
44×1.0	0.6	1.5	21.0	24.0	0.011	18.1	777
44×1.5	0.7	1.5	24.5	28.0	0.011	12.1	1074
44×2.5	0.8	2.0	29.5	33.5	0.010	7.41	1702
52×0.75	0.6	1.5	20.0	23.0	0.012	24.5	737
52×1.0	0.6	1.5	22.0	25.0	0.011	18.1	896
52×1.5	0.7	1.5	25.5	29.0	0.011	12.1	1243
52×2.5	0.8	2.0	31.0	35.0	0.010	7.41	1973
61×0.75	0.6	1.5	22.0	25.0	0.012	24.5	843
61×1.0	0.6	1.5	23.0	26.5	0.011	18.1	1027
61×1.5	0.7	1.5	27.5	31.5	0.011	12.1	1468
61×2.5	0.8	2.2	33.0	37.5	0.010	7.41	2306

KVVP$_2$ 型，ZR-KVVP$_2$ 型 450/750V 铜芯聚氯乙烯绝缘铜带屏蔽聚氯乙烯护套控制电缆

Type KVVP$_2$, ZR-KVVP$_2$ 450/750 Copper Conductor PVC Insulated and Sheathed Control Cable with Copper Tape Shield

表 4
table 4

芯数×标称截面 Cross×Nom cross-sectional area mm²	绝缘标称厚度 Nom thickness of Insulation mm	铜带厚度 Nom tickness of Copper tape mm	护套标称厚度 Nom thickness of Sheath mm	平均外径 Pitch Diameter mm 下限 min	平均外径 Pitch Diameter mm 上限 max	最大绝缘电阻 max.D.C Resistanceof Insulation at 20℃ Ω-km	最大直流电阻 maxDC Resistance of at 20℃ Ω-km	近似重量 Approx weight (kg/km)
4 × 0.75	0.6	0.05–0.15	1.2	8.0	10.0	0.012	24.5	144
4 × 1.0	0.6	0.05–0.15	1.2	9.4	10.5	0.011	18.1	153
4 × 1.5	0.7	0.05–0.15	1.2	9.4	11.5	0.011	12.1	190
4 × 2.5	0.8	0.05–0.15	1.5	11.0	14.0	0.010	7.41	276
4 × 4	0.8	0.05–0.15	1.5	12.5	15.0	0.0085	4.61	367
4 × 6	0.8	0.05–0.15	1.5	13.5	16.0	0.0070	3.08	467
4 × 10	1.0	0.05–0.15	1.7	17.5	21.5	0.065	1.83	728
5 × 0.75	0.6	0.05–0.15	1.2	8.6	11.0	0.012	24.5	153
5 × 1.0	0.6	0.05–0.15	1.2	9.0	11.0	0.011	18.1	173
5 × 1.5	0.7	0.05–0.15	1.2	10.0	12.5	0.011	12.1	226
5 × 2.5	0.8	0.05–0.15	1.5	12.0	15.0	0.010	7.41	325
5 × 4	0.8	0.05–0.15	1.5	13.5	16.0	0.0085	4.61	437
5 × 6	0.8	0.05–0.15	1.5	14.5	17.5	0.0070	3.08	576
5 × 10	1.0	0.05–0.15	1.7	19.0	23.5	0.065	1.83	924
7 × 0.75	0.6	0.05–0.15	1.2	9.2	11.5	0.012	24.5	178
7 × 1.0	0.6	0.05–0.15	1.2	9.6	12.0	0.011	18.1	209
7 × 1.5	0.7	0.05–0.15	1.2	11.5	14.0	0.011	12.1	239
7 × 2.5	0.8	0.05–0.15	1.5	13.0	16.0	0.010	7.41	398
7 × 4	0.8	0.05–0.15	1.5	14.5	17.5	0.0085	4.61	528
7 × 6	0.8	0.05–0.15	1.5	16.0	19.0	0.0070	3.08	717
7 × 10	1.0	0.05–0.15	1.7	20.5	25.0	0.065	1.83	1145
8 × 0.75	0.6	0.05–0.15	1.2	10.0	12.5	0.012	24.5	206
8 × 1.0	0.6	0.05–0.15	1.2	11.0	13.5	0.011	18.1	230
8 × 1.5	0.7	0.05–0.15	1.2	12.5	15.5	0.011	12.1	312
8 × 2.5	0.8	0.05–0.15	1.5	14.5	17.5	0.010	7.41	486
8 × 4	0.8	0.05–0.15	1.5	16.0	19.0	0.0085	4.61	589
8 × 6	0.8	0.05–0.15	1.5	18.0	21.0	0.0070	3.08	790
8 × 10	1.0	0.05–0.15	1.7	23.0	28.0	0.065	1.83	1236
10 × 0.75	0.6	0.05–0.15	1.2	11.5	14.5	0.012	24.5	214
10 × 1.0	0.6	0.05–0.15	1.2	12.5	15.0	0.011	18.1	300
10 × 1.5	0.7	0.05–0.15	1.2	14.0	17.0	0.011	12.1	367
10 × 2.5	0.8	0.05–0.15	1.5	16.5	19.5	0.010	7.41	572
10 × 4	0.8	0.05–0.15	1.5	18.5	21.5	0.0085	4.61	787
10 × 6	0.8	0.05–0.15	1.5	20.5	23.5	0.0070	3.08	992
10 × 10	1.0	0.05–0.15	1.7	26.0	31.5	0.065	1.83	1590
12 × 0.75	0.6	0.05–0.15	1.5	12.0	14.5	0.012	24.5	280
12 × 1.0	0.6	0.05–0.15	1.5	12.5	15.5	0.011	18.1	315
12 × 1.5	0.7	0.05–0.15	1.5	14.5	17.5	0.011	12.1	423
12 × 2.5	0.8	0.05–0.15	1.7	17.0	20.5	0.010	7.41	654
12 × 4	0.8	0.05–0.15	1.7	19.0	22.5	0.0085	4.61	887
12 × 6	0.8	0.05–0.15	1.7	21.0	24.5	0.0070	3.08	1198
14 × 0.75	0.6	0.05–0.15	1.5	12.5	15.5	0.012	24.5	312
14 × 1.0	0.6	0.05–0.15	1.5	13.5	16.0	0.011	18.1	398
14 × 1.5	0.7	0.05–0.15	1.5	15.0	18.0	0.011	12.1	492
14 × 2.5	0.8	0.05–0.15	1.7	18.0	21.0	0.010	7.41	721
14 × 4	0.8	0.05–0.15	1.7	20.0	23.5	0.0085	4.61	973
14 × 6	0.8	0.05–0.15	1.7	22.0	25.5	0.0070	3.08	1203
16 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	340
16 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	389
16 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	489
16 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	789

19 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	386
19 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	413
19 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	612
19 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	986
24 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	476
24 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	580
24 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	792
24 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	1179
27 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	503
27 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	612
27 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	886
27 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	1286
30 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	600
30 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	725
30 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	891
30 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	1384
37 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	622
37 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	887
37 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	1105
37 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	1681
48 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	809
48 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	987
48 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	1315
48 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	2018
44 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	910
44 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	1028
44 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	1307
44 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	2097
52 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	935
52 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	1113
52 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	1493
52 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	2298
61 × 0.75	0.6	0.05–0.15	1.5	13.0	16.0	0.012	24.5	1025
61 × 1.0	0.6	0.05–0.15	1.5	14.0	16.5	0.011	18.1	1250
61 × 1.5	0.7	0.05–0.15	1.5	16.0	19.0	0.011	12.1	1745
61 × 2.5	0.8	0.05–0.15	1.7	19.0	2.0	0.010	7.41	2599

$KVVP_{22}$ 型，ZR-KVV_{22} 型 450/750V 铜芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套控制电缆

Type $KVVP_{22}$,ZR-KVV_{22} 450/750 Copper Conductor PVC Insulated and Sheathed Control Cable with Copper Tape Shield

表 5
table 5

芯数×标称截面 Cross×Nom cross-sectional area mm²	绝缘标称厚度 Nom thickness of Insulation mm	钢带厚度 Nom tickness of Copper tape mm	护套标称厚度 Nom thickness of Sheath mm	平均外径 Pitch Diameter mm 下限 min	平均外径 Pitch Diameter mm 上限 max	最大绝缘电阻 max.D.C Resistanceof Insulation at 20℃ Ω-km	最大直流电阻 max.D.C Resistance of at 20℃ Ω-km	近似重量 Approx weight (kg/km)
4 × 2.5	0.8	2 × 0.20(0.3)	1.5	13.0	17.0	0.010	7.41	–
4 × 4	0.8	2 × 0.20(0.3)	1.5	14.0	18.5	0.0085	4.61	505
4 × 6	0.8	2 × 0.20(0.3)	1.5	15.0	19.0	0.0070	3.08	619
4 × 10	1.0	2 × 0.20(0.3)	1.7	19.0	25.0	0.0065	1.83	947
5 × 2.5	0.8	2 × 0.20(0.3)	1.5	14.0	18.0	0.010	7.41	–
5 × 4	0.8	2 × 0.20(0.3)	1.5	15.0	19.5	0.0085	4.61	586
5 × 6	0.8	2 × 0.20(0.3)	1.7	17.0	21.5	0.0070	3.08	737
5 × 10	1.0	2 × 0.20(0.3)	1.7	20.5	26.5	0.0065	1.83	1125
7 × 0.75	0.6	2 × 0.20(0.3)	1.5	11.5	15.5	0.012	24.5	317
7 × 1.0	0.6	2 × 0.20(0.3)	1.5	12.0	16.0	0.011	18.1	354
7 × 1.5	0.7	2 × 0.20(0.3)	1.5	135	17.5	0.011	12.1	425
7 × 2.5	0.8	2 × 0.20(0.3)	1.5	15.0	19.0	0.010	7.41	554
7 × 4	0.8	2 × 0.20(0.3)	1.5	16.5	20.5	0.0085	4.61	701
7 × 6	0.8	2 × 0.20(0.3)	1.7	18.0	22.5	0.0070	3.08	900
7 × 10	1.0	2 × 0.20(0.3)	1.7	22.5	28.5	0.065	1.83	1397
8 × 0.75	0.6	2 × 0.20(0.3)	1.5	12.5	16.5	0.012	24.5	344
8 × 1.0	0.6	2 × 0.20(0.3)	1.5	13.0	17.0	0.011	18.1	378
8 × 1.5	0.7	2 × 0.20(0.3)	1.5	14.5	18.5	0.011	12.1	467
8 × 2.5	0.8	2 × 0.20(0.3)	1.5	16.5	21.0	0.010	7.41	614
8 × 4	0.8	2 × 0.20(0.3)	1.5	18.0	23.0	0.00850	4.61	789
8 × 6	0.8	2 × 0.20(0.3)	1.7	20.0	24.5	0.0070	3.08	987
8 × 10	1.0	2 × 0.20(0.3)	1.7	25.0	31.5	0.065	1.83	1540
10 × 0.75	0.6	2 × 0.20(0.3)	1.2	13.5	18.0	0.012	24.5	449
10 × 1.0	0.6	2 × 0.20(0.3)	1.2	14.5	18.5	0.011	18.1	558
10 × 1.5	0.7	2 × 0.20(0.3)	1.2	16.0	20.5	0.011	12.1	753
10 × 2.5	0.8	2 × 0.20(0.3)	1.5	18.5	23.0	0.010	7.41	956
10 × 4	0.8	2 × 0.20(0.3)	1.5	20.5	25.0	0.0085	4.61	1203
10 × 6	0.8	2 × 0.20(0.3)	1.5	22.5	27.0	0.0070	3.08	–
10 × 10	1.0	2 × 0.20(0.3)	1.7	28.5	35.0	0.065	1.83	–
12 × 0.75	0.6	2 × 0.20(0.3)	1.5	14.0	18.0	0.012	24.5	–
12 × 1.0	0.6	2 × 0.20(0.3)	1.5	14.5	19.0	0.011	18.1	–
12 × 1.5	0.7	2 × 0.20(0.3)	1.5	16.5	20.5	0.011	12.1	486
12 × 2.5	0.8	2 × 0.20(0.3)	1.7	19.0	23.5	0.010	7.41	609
12 × 4	0.8	2 × 0.20(0.3)	1.7	21.0	25.5	0.0085	4.61	829
12 × 6	0.8	2 × 0.20(0.3)	1.7	23.0	28.5	0.0070	3.08	1061
14 × 0.75	0.6	2 × 0.20(0.3)	1.5	14.5	18.5	0.012	24.5	412
14 × 1.0	0.6	2 × 0.20(0.3)	1.5	15.0	19.5	0.011	18.1	530
14 × 1.5	0.7	2 × 0.20(0.3)	1.5	17.5	22.0	0.011	12.1	684
14 × 2.5	0.8	2 × 0.20(0.3)	1.7	20.0	24.5	0.010	7.41	913
14 × 4	0.8	2 × 0.20(0.3)	1.7	22.0	26.5	0.0085	4.61	1171
14 × 6	0.8	2 × 0.20(0.3)	1.7	24.0	29.0	0.0070	3.08	1508
16 × 0.75	0.6	2 × 0.20(0.3)	1.5	15.0	19.5	0.012	24.5	576
16 × 1.0	0.6	2 × 0.20(0.3)	1.5	16.0	20.0	0.011	18.1	745
16 × 1.5	0.7	2 × 0.20(0.3)	1.5	18.0	22.5	0.011	12.1	1005
16 × 2.5	0.8	2 × 0.20(0.3)	1.7	21.0	25.5	0.010	7.41	1350
19 × 0.75	0.6	2 × 0.20(0.3)	1.5	15.5	20.0	0.012	24.5	646
19 × 1.0	0.6	2 × 0.20(0.3)	1.5	17.0	21.5	0.011	18.1	824
19 × 1.5	0.7	2 × 0.20(0.3)	1.5	19.0	23.5	0.011	12.1	1199
19 × 2.5	0.8	2 × 0.20(0.3)	1.7	22.0	26.5	0.010	7.41	1480
24 × 0.75	0.6	2 × 0.20(0.3)	1.5	18.0	22.5	0.012	24.5	776
24 × 1.0	0.6	2 × 0.20(0.3)	1.5	19.0	23.5	0.011	18.1	1001
24 × 1.5	0.7	2 × 0.20(0.3)	1.5	21.5	26.5	0.011	12.1	1376
24 × 2.5	0.8	2 × 0.20(0.3)	1.7	25.5	30.0	0.010	7.41	1590

27 × 0.75	0.6	2 × 0.20(0.3)	1.5	18.5	23.0	0.012	24.5	821
27 × 1.0	0.6	2 × 0.20(0.3)	1.5	19.5	24.0	0.011	18.1	1063
27 × 1.5	0.7	2 × 0.20(0.3)	1.5	22.5	27.0	0.011	12.1	1480
27 × 2.5	0.8	2 × 0.20(0.3)	1.7	25.5	30.5	0.010	7.41	1730
30 × 0.75	0.6	2 × 0.20(0.3)	1.5	19.0	23.5	0.012	24.5	883
30 × 1.0	0.6	2 × 0.20(0.3)	1.5	20.0	24.5	0.011	18.1	1550
30 × 1.5	0.7	2 × 0.20(0.3)	1.5	23.0	275	0.011	12.1	1808
30 × 2.5	0.8	2 × 0.20(0.3)	1.7	26.5	21.5	0.010	7.41	2050
37 × 0.75	0.6	2 × 0.20(0.3)	1.5	20.5	25.0	0.012	24.5	1013
37 × 1.0	0.6	2 × 0.20(0.3)	1.5	21.5	26.0	0.011	18.1	1331
37 × 1.5	0.7	2 × 0.20(0.3)	1.5	24.5	29.0	0.011	12.1	2139
37 × 2.5	0.8	2 × 0.20(0.3)	1.7	30.0	35.0	0.010	7.41	2370
48 × 0.75	0.6	2 × 0.20(0.3)	1.5	22.5	27.0	0.012	24.5	120
48 × 1.0	0.6	2 × 0.20(0.3)	1.5	23.5	28.5	0.011	18.1	1584
48 × 1.5	0.7	2 × 0.20(0.3)	1.5	27.5	33.0	0.011	12.1	2320
48 × 2.5	0.8	2 × 0.5	1.7	33.5	39.0	0.010	7.41	2532
44 × 0.75	0.6	2 × 0.20(0.3)	1.5	22.5	27.5	0.012	24.5	1160
44 × 1.0	0.6	2 × 0.20(0.3)	1.5	24.0	29.0	0.011	18.1	1630
44 × 1.5	0.7	2 × 0.5	1.5	29.0	24.0	0.011	12.1	2530
44 × 2.5	0.8	2 × 0.5	1.7	34.0	39.5	0.010	7.41	2662
52 × 0.75	0.6	2 × 0.20(0.3)	1.5	23.0	28.0	0.012	24.5	1210
52 × 1.0	0.6	2 × 0.20(0.3)	1.5	24.5	29.5	0.011	18.1	1750
52 × 1.5	0.7	2 × 0.5	1.5	30.0	35.0	0.011	12.1	2580
52 × 2.5	0.8	2 × 0.5	1.7	35.0	40.5	0.010	7.41	2710
61 × 0.75	0.6	2 × 0.20(0.3)	1.5	24.5	29.5	0.012	24.5	1280
61 × 1.0	0.6	2 × 0.20(0.3)	1.5	26.0	31.0	0.011	18.1	1930
61 × 1.5	0.7	2 × 0.5	1.5	31.5	36.5	0.011	12.1	2770
61 × 2.5	0.8	2 × 0.5	1.7	37.0	42.5	0.010	7.41	3175

KVVR 型,ZR-KVVR 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆

Type KVVR,ZR-KVVR 450/750 Copper Conductor PVC Insulated and Sheathed Flexible Control Cable

表 6
table 6

芯数×标称截面 Cross×Nom cross-sectional area mm^2	绝缘标称厚度 Nom thickness of Insulation mm	护套标称厚度 Nom thickness of Sheath mm	平均外径 Pitch Diameter mm		最大绝缘电阻 maxDCResistanceof Insulation at 20℃ Ω-km	最大直流电阻 maxDC Resistance of at20℃ Ω-km
			下限 min	上限 max		
4 × 0.5	0.6	1.2	7.2	9.0	0.013	39.0
4 × 0.75	0.6	1.2	7.6	9.4	0.011	26.0
4 × 1.0	0.6	1.2	8.0	10.0	0.010	19.5
4 × 1.5	0.7	1.2	9.0	11.5	0.010	13.3
4 × 2.5	0.8	1.2	10.5	13.0	0.009	7.98
5 × 0.5	0.6	1.2	7.8	9.0	0.013	39.0
5 × 0.75	0.6	1.2	8.4	10.5	0.011	26.0
5 × 1.0	0.6	1.2	8.8	11.0	0.010	19.5
5 × 1.5	0.7	1.2	9.8	12.0	0.010	13.3
5 × 2.5	0.8	1.5	12.0	14.5	0.009	7.98
7 × 0.5	0.6	1.2	8.4	10.5	0.013	39.0
7 × 0.75	0.6	1.2	9.0	11.0	0.011	26.0
7 × 1.0	0.6	1.2	9.6	11.5	0.010	19.5
7 × 1.5	0.7	1.2	10.5	13.0	0.010	13.3
7 × 2.5	0.8	1.5	13.0	16.0	0.009	7.98
8 × 0.5	0.6	1.2	9.4	11.5	0.013	39.0
8 × 0.75	0.6	1.2	10.0	12.0	0.011	26.0
8 × 1.0	0.6	1.2	10.5	13.0	0.010	19.5
8 × 1.5	0.7	1.2	12.5	15.0	0.010	13.3
8 × 2.5	0.8	1.5	15.0	17.5	0.009	7.98
10 × 0.5	0.6	1.2	10.5	12.5	0.013	39.0
10 × 0.75	0.6	1.2	11.0	13.5	0.011	26.0
10 × 1.0	0.6	1.5	12.0	15.0	0.010	19.5
10 × 1.5	0.7	1.5	14.0	17.0	0.010	13.3
10 × 2.5	0.8	1.5	16.5	19.5	0.009	7.98
12 × 0.5	0.6	1.2	10.5	13.0	0.013	39.0
12 × 0.75	0.6	1.5	12.0	14.5	0.011	26.0
12 × 1.0	0.6	1.5	12.5	15.5	0.010	19.5
12 × 1.5	0.7	1.5	14.5	17.5	0.010	13.3
12 × 2.5	0.8	1.5	17.5	20.5	0.009	7.98
14 × 0.5	0.6	1.2	11.0	13.5	0.013	39.0
14 × 0.75	0.6	1.5	12.5	15.0	0.011	26.0
14 × 1.0	0.6	1.5	13.5	16.0	0.010	19.5
14 × 1.5	0.7	1.5	15.0	18.0	0.010	13.3
14 × 2.5	0.8	1.5	18.0	21.0	0.009	7.98
16 × 0.5	0.6	1.5	12.5	15.0	0.013	39.0
16 × 0.75	0.6	1.5	13.5	16.0	0.011	26.0
16 × 1.0	0.6	1.5	14.0	17.0	0.010	19.5
16 × 1.5	0.7	1.5	16.0	19.0	0.010	13.3
16 × 2.5	0.8	1.7	19.5	23.0	0.009	7.98
19 × 0.5	0.6	1.5	13.0	15.5	0.013	39.0
19 × 0.75	0.6	1.5	14.0	16.5	0.011	26.0
19 × 1.0	0.6	1.5	15.0	17.5	0.010	19.5
19 × 1.5	0.7	1.5	16.5	20.0	0.010	13.3
19 × 2.5	0.8	1.7	20.5	24.0	0.009	7.98
24 × 0.5	0.6	1.5	15.0	18.0	0.013	39.0
24 × 0.75	0.6	1.5	16.0	19.0	0.011	26.0
24 × 1.0	0.6	1.5	17.0	20.0	0.010	19.5
24 × 1.5	0.7	1.7	20.0	23.5	0.010	13.3
24 × 2.5	0.8	1.7	24.0	27.5	0.009	7.98
27 × 0.5	0.6	1.5	15.0	18.0	0.013	39.0
27 × 0.75	0.6	1.5	16.5	19.5	0.011	26.0
27 × 1.0	0.6	1.5	17.5	20.5	0.010	19.5
27 × 1.5	0.7	1.7	20.5	24.5	0.010	13.3
27 × 2.5	0.8	1.7	24.5	28.5	0.009	7.98

30 × 0.5	0.6	1.5	16.0	18.5	0.013	39.0
30 × 0.75	0.6	1.5	17.0	20.0	0.011	26.0
30 × 1.0	0.6	1.7	18.5	21.5	0.010	19.5
30 × 1.5	0.7	1.7	21.0	25.0	0.010	13.3
30 × 2.5	0.8	1.7	25.5	29.5	0.009	7.98
37 × 0.5	0.6	1.5	17.0	20.0	0.013	39.0
37 × 0.75	0.6	1.7	19.0	21.5	0.011	26.0
37 × 1.0	0.6	1.7	20.0	23.5	0.010	19.5
37 × 1.5	0.7	1.7	22.5	27.0	0.010	13.3
37 × 2.5	0.8	1.7	27.5	31.5	0.009	7.98
44 × 0.5	0.6	1.7	19.5	22.5	0.013	39.0
44 × 0.75	0.6	1.7	21.0	24.5	0.011	26.0
44 × 1.0	0.6	1.7	22.5	26.0	0.010	19.5
44 × 1.5	0.7	1.7	25.5	30.0	0.010	13.3
44 × 2.5	0.8	1.7	32.0	36.0	0.009	7.98
48 × 0.5	0.6	1.7	20.0	23.0	0.013	39.0
48 × 0.75	0.6	1.7	21.5	25.0	0.011	26.0
48 × 1.0	0.6	1.7	23.0	26.5	0.010	19.5
48 × 1.5	0.7	1.7	26.0	30.5	0.010	13.3
48 × 2.5	0.8	2.0	32.5	36.5	0.009	7.98
52 × 0.5	0.6	1.7	20.5	23.5	0.013	39.0
52 × 0.75	0.6	1.7	22.0	25.5	0.011	26.0
52 × 1.0	0.6	1.7	23.5	27.0	0.010	19.5
52 × 1.5	0.7	1.7	26.5	31.0	0.010	13.3
52 × 2.5	0.8	2.0	33.0	37.5	0.009	7.98
61 × 0.5	0.6	1.7	21.5	25.0	0.013	39.0
61 × 0.75	0.6	1.7	23.5	27.0	0.011	26.0
61 × 1.0	0.6	1.7	25.0	28.5	0.010	19.5
61 × 1.5	0.7	2.0	29.0	33.5	0.010	13.3
61 × 2.5	0.8	2.2	35.5	40.5	0.009	7.98

通用橡套电缆

GENERAL RUBBER SHEATH CABLE

打造电缆行业具有国际先进水平的知名品牌

To create the well known brand of advanced international level in cable industry

通用橡套软电缆(GB/T5013–2008)
Rubber sheath flexible cable for communication(GB/T5013–2008)

一、用途

本产品适用于交流额定电压为 450/750V 及以下的家用电器、电动工具和各类移动电器设备。

This product is suitable for rated ac voltage 450/750V or below domestic appliances, power-operated tools and various portable electric equipments.

二、使用特性

1) YZ 型额定电压 Uo/u 为 300/500V,YC 型为 450/750V。
2) 线芯的长期允许工作温度不超过 65℃。
3) W 型电缆具有耐气候和一定的耐油性能,适宜于在户外或接触油污的场合使用。
4) ZR 型电缆具有阻燃性能。
1) YZ model rated voltage Uo/u is 300/500V YC model is 450/750V.
2) Long time allow working temperature of wire core is not more than 65℃.
3) W model cable has the property of durability and suitable for cutdoor touching of greasy dirt.
4) ZR model cable has the property of fire-resistance.

三、型号、名称及用途(见表 1)Model name and usage:(see table 1)

表 1
table 1

型 号 Model	名 称 Name	主要用途 Main usage
YO,YOW	轻型橡套软电缆 Light model rubber sheath flexible cable	用于轻型移动电器设备和工具 Used for light portable electric equipment and tools
YZ,YZW	中型橡套软电缆 Middle model rubber sheath flexible cable	用于各种移动电器设备和工具 Used for various portable electric equipment and tools
YC,YCW	重型橡套软电缆 Heavy model rubber sheath flexible cable	用于各种移动电器设备,能承受较大的机械外力作用 Used for various portable electric equipment which can bear larger mechanical force effect

四、尺寸、重量及技术参数(见表 2-4)。Size,weight and technological parameters(see table 2-4)

300/300V YQ,YQW 轻型
30/300V YQ,YQW light model

表 2
table 2

芯数×标称截面 Core × Nominal section(mm²)	导电线芯 Conductive core(mm)	平均外径 Average outer diameter(mm²)		20℃导体电阻≤(Ω/km) 20℃ conductor resistance		参考重量 Reference weight(kg/km)	
	根数线径 unmber / diameter of core	下限 minimun	上限 maximum limit	铜芯 Copper core	镀锡铜芯 tin-welded Copper core	YQ	YQW
2×0.3	16/0.15	4.6	6.6	69.2	71.2	30	31.5
2×0.5	28/0.15	5.0	7.2	39.0	40.1	43	45.5
3×0.3	16/0.15	4.8	7.0	69.2	71.2	36	38.1
3×0.5	28/0.15	5.2	7.6	39.0	40.1	74	77.0

300 / 300V YQ, YQW 中型
30 / 300V YQ, YQW medium model

表 3
table 3

芯数 × 标称截面 Core × Nominal section(mm²)	导电线芯 Conductive core(mm)	平均外径 Average outer diameter(mm²)		20℃导体电阻≤(Ω/km) 20℃ conductor resistance		参考重量 Reference weight(kg/km)	
	根数线径 unmber diameter of core	下限 minimum	上限 maximum limit	铜芯 Copper core	镀锡铜芯 tin-wellded Copper core	YQ	YQW
2 × 0.75	24/0.20	6.0	8.2	26.0	26.7		
2 × 1	32/0.20	6.4	8.8	19.5	20.0	81.7	89.6
2 × 1.5	30/0.25	8.0	10.5	13.3	13.7		
2 × 2.5	49/0.25	9.4	12.5	7.98	8.21	227.1	242.6
2 × 4	56/0.30	11.0	14.0	4.95	5.09		
2 × 6	84/0.30	12.5	17.0	3.30	3.39	366.0	394.5
3 × 0.75	24/0.20	6.6	8.8	26.0	26.7		
3 × 1	32/0.20	6.8	9.2	19.5	20.0	97.4	105.0
3 × 1.5	30/0.25	8.4	11.0	13.3	13.7		
3 × 2.5	49/0.25	10.0	13.0	7.98	8.21	205.1	219.2
3 × 4	56/0.30	11.5	14.5	4.95	5.09		
3 × 6	84/0.30	13.0	18.0	3.30	3.39	452.5	497.7
4 × 0.75	24/0.20	7.2	9.6	26.0	26.7		
4 × 1	32/0.20	7.6	10.0	19.5	20.0	117.1	125.2
4 × 1.5	30/0.25	9.4	12.5	13.3	13.7		
4 × 2.5	49/0.25	11.0	14.0	7.98	8.21	255.2	270.9
4 × 4	56/0.30	13.0	16.5	4.95	5.09		
4 × 6	84/0.30	14.5	20.0	3.30	3.39	564.0	594.0
3 × 1.5+1 × 1.0	30/0.25+32/0.20	9.4	12.0	13.3	13.7	170.1	181.9
3 × 2.5+1 × 1.5	49/0.25+30/0.25	11.0	14.0	7.98	2.21	246.8	262.9
3 × 4+1 × 2.5	56/0.30+49/0.25	13.0	16.0	4.95	5.09	359.1	380.2
3 × 6+1 × 4	84/0.30+56/0.30	14.5	19.5	3.30	3.39	542.1	572.5
5 × 0.75	24/0.20	8.0	11.0	26.0	26.7	127.1	136.8
5 × 1	32/0.20	8.4	11.5	19.5	20.0	144.3	154.5
5 × 1.5	30/0.25	10.0	13.5	13.3	13.7	210.5	223.6
5 × 2.5	49/0.25	12.5	15.5	7.98	8.21	304.3	322.4
5 × 4	56/0.30	14.5	18.0	4.95	5.09	441.8	464.5
5 × 6	84/0.30	16.5	22.5	3.30	3.39	687.5	724.0

450 / 750V YC, YCW 重型
450 / 750V YC, YCW heavy model

表 4
table 4

芯数 × 标称截面 Core × Nominal section(mm²)	导电线芯 Conductive core(mm)	平均外径 Average outer diameter(mm²)		20℃导体电阻≤(Ω/km) 20℃ conductor resistance		参考重量 Reference weight(kg/km)	
	根数/线径 unmber diameter of core	下限 minimum	上限 maximum limit	铜芯 Copper core	镀锡铜芯 tin-wellded Copper core	YQ	YQW
1 × 1.5	30/0.25	5.6	7.2	13.3	13.7	51.9	57.0
1 × 2.5	49/0.25	6.4	8.0	7.98	8.21	73.7	79.5
1 × 4	56/0.30	7.2	9.0	4.95	5.09	110.5	118.7
1 × 6	84/0.30	8.0	11.0	3.30	3.39	132	167.3
1 × 10	84/0.40	9.8	13.0	1.91	1.95	220.6	234.8
1 × 16	126/0.40	11.0	14.5	1.21	1.24	295.1	311.6
1 × 25	196/0.40	12.5	16.5	0.780	0.795	425.6	446.2
1 × 35	276/0.40	16.5	21.0	0.386	0.393	758.4	788.4
1 × 50	396/0.40	16.5	21.0	0.386	0.393	758.4	788.4
1 × 70	360/0.50	18.5	24.0	0.272	0.277	1034.1	1073.7
1 × 95	475/0.50	21.0	26.0	0.206	0.210	1324.7	1369.3
1 × 120	608/0.50	23.0	28.5	0.161	0.164	1593.9	1646.3
1 × 150	756/0.50	25.0	32.0	0.129	0.132	1971.6	2063.7
1 × 185	925/0.50	27.5	34.5	0.160	0.108	2425.6	2498
1 × 240	1221/0.50	30.5	38.0	0.0801	0.0817	3081.3	3166.2
1 × 300	1525/0.50	33.5	41.5	0.0641	0.0654	3730.7	3825.2
1 × 400	2013/0.50	37.5	46.5	0.0486	0.0495	4934	5048.2
2 × 1.5	30/0.50	9.0	11.5	13.3	13.7	132	146.6
2 × 2.5	49/0.25	10.5	13.5	7.98	8.21	203.6	223.9
2 × 4	56/0.30	12.0	15.0	4.95	5.09	280.2	305.6
2 × 6	84/0.30	13.5	18.5	3.30	3.39	412.2	448.2
2 × 10	84/0.40	18.5	24.0	1.91	1.95	669.1	732.8
2 × 16	126/0.40	21.0	27.5	1.21	1.24	906.6	988.5
2 × 25	196/0.40	24.5	31.5	0.780	0.795	1144.3	1229.4

芯数×标称截面 Core × Nominal section(mm²)	导电线芯 Conductive core(mm)	平均外径 Average outer diameter(mm²)		20℃导体电阻≤(Ω/km) 20℃ conductor resistance		参考重量 Reference weight(kg/km)	
	根数/线径 unmber diameter of core	下限 minimun	上限 maximun limit	铜芯 Copper core	镀锡铜芯 tin-wellded Copper core	YQ	YQW
2 × 4	56/0.30	12.0	15.0	4.95	5.09	280.2	305.6
2 × 6	84/0.30	13.5	18.5	3.30	1.95	412.2	448.2
2 × 10	84/0.40	18.5	24.0	1.91	3.39	669.1	732.8
2 × 16	126/0.40	21.0	27.5	1.21	1.95	906.6	988.5
2 × 25	196/0.40	24.5	31.5	0.780	1.24	1144.3	1229.4
2 × 35	276/0.40	27.5	35.5	0.554	0.795	1505.5	1610.4
2 × 50	396/0.40	32.0	41.0	0.386	0.565	2464.2	2655.7
2 × 70	360/0.50	36.0	46.0	0.272	0.393	3254.8	3484.3
2 × 95	475/0.50	40.5	50.5	0.206	0.277	4144.3	4423.0
3 × 1.5	30/0.25	9.6	12.5	13.3	0.210	156.0	171.0
3 × 2.5	49/0.25	11.5	14.5	7.98	13.7	246.1	266.9
3 × 4	56/0.30	13.0	16.0	4.95	8.21	305.6	325.2
3 × 6	84/0.30	20.0	25.5	1.91	5.09	822.3	895.6
3 × 10	84/0.40	20.0	25.5	1.91	1.95	822.3	895.6
3 × 16	126/0.40	22.5	29.5	1.21	1.24	1075.8	1152.8
3 × 25	196/0.40	26.5	34.0	0.780	0.795	1514.3	1725.4
3 × 35	276/0.40	29.5	38.0	0.554	0.565	789.3	1956.0
3 × 50	396/0.40	34.5	43.5	0.386	0.393	2880.3	3057.8
3 × 70	360/0.50	38.5	49.5	0.272	0.277	3879.3	4109.2
3 × 95	475/0.50	44.0	54.0	0.206	0.210	4974.5	5250.8
3 × 120	608/0.50	48.0	59.0	0.161	0.164	5933.3	6253.3
3 × 150	756/0.50	53.0	66.5	0.129	0.132	7343.4	7740.9
4 × 1.5	30/0.25	10.5	15.5	13.3	13.7	188.6	205.6
4 × 2.5	49/0.25	12.5	15.5	7.98	8.21	300.5	323.7
4 × 4	56/0.30	14.5	18.0	4.95	5.09	438.4	469.5
4 × 6	84/0.30	16.5	22.0	3.30	3.39	643.2	686.0
4 × 10	84/0.40	21.5	28.0	1.91	1.95	1106.0	1097.7
4 × 16	126/0.40	24.5	32.0	1.21	1.24	1380.0	1473.9
4 × 25	196/0.40	29.5	37.5	0.780	0.795	2011.8	2137.3
4 × 35	276/0.40	33.3	42.0	0.554	0.565	2637.2	2792.7
4 × 50	396/0.40	38.0	48.5	0.386	0.393	3634.4	3838.4
4 × 70	360/0.50	43.0	55.0	0.272	0.277	4861.7	5118
4 × 95	475/0.50	49.0	60.5	0.206	0.210	6245.5	6551
4 × 120	608/0.50	53.0	65.5	0.161	0.164	7479.6	7836
4 × 150	756/0.50	59.0	74.0	0.129	0.132	9302.4	9753
3 × 2.5+1 ×1.5	49/0.25+30/0.25	12.5	15.5	7.98	8.21	282.7	305.6
3 × 4+1 × 1.5	56/0.30+49/0.25	14.5	17.5	4.95	5.09	406.8	435.7
3 × 6+1 × 4	84/0.30+56/0.30	16.0	21.0	3.30	3.39	600.1	640.3
3 × 10+1 × 6	84/0.40+84/0.30	20.5	26.5	1.91	1.95	925.1	990.9
3 × 16+1 × 6	126/0.40+84/0.40	23.0	30.5	1.21	1.24	1253.9	1341.5
3 × 25+1 × 10	196/0.40+84/0.40	28.0	35.5	0.780	0.795	1823.2	1941.3

芯数×标称截面 Core × Nominal section(mm²)	导电线芯 Conductive core(mm)	平均外径 Average outer diameter(mm²)		20℃导体电阻≤(Ω/km) 20℃ conductor resistance		参考重量 Reference weight(kg/km)	
	根数/线径 unmber diameter of core	下限 minimun	上限 maximun limit	铜芯 Copper core	镀锡铜芯 tin-wellded Copper core	YQ	YQW
3×25+1×10	196/0.40+84/0.40	28.0	35.5	0.780	0.795	1823.2	1941.3
3×35+1×10	276/0.40+84/0.40	30.00	38.5	0.554	0.565	1980.4	2115.9
3×50+1×16	396/0.40+126/0.40	36.0	46.0	0.386	0.393	3243.4	3439.7
3×70+1×25	360/0.50+196/0.40	40.0	51.0	0.272	0.277	4504.4	4772.6
3×95+1×35	475/0.50+276/0.40	44.0	55.0	0.206	0.210	5553.5	5838.3
3×120+1×35	608/0.50+276/0.40	46.5	59.0	0.161	0.164	6362.1	6662.4
3×150+1×50	756/0.50+396/0.40	52.0	66.0	0.129	0.132	7889.3	8252.6
5×1.5	30/0.25	11.5	15.0	13.3	13.7	221.4	240.6
5×2.5	49/0.25	13.5	17.0	7.98	8.21	347.6	372.7
5×4	56/0.30	16.0	19.5	4.95	5.09	497.1	528.9
5×6	84/0.30	18.0	24.5	3.30	3.39	765.7	815.0
5×10	84/0.40	24.0	31.0	1.91	1.95	1205.2	1289.0
5×16	126/0.40	27.0	35.5	1.21	1.24	1668.8	1777.0
5×25	196/0.40	32.5	41.5	0.780	0.795	2434.3	2587.1

五、通用橡套软电缆载流量(见表 5-6)

Currier current quantity of general rubber sheath flexible cabele: see table 5-6

表 5
table 5

主线芯截面 Main core section (mm)	长期连续负荷允许截流量(A) long time continuing carrier quantity current						
	YZ、YZW 型			YC、YCW 型			
	二芯 2-core	三芯 3-core	四芯 4-core	单芯 1-core	二芯 2-core	三芯 3-core	四芯 4-core
0.75	14	12	11				
1.0	17	14	13				
1.5	21	18	18				
2.0	26	22	22				
2.5	30	25	25	37	30	26	27
4.0	41	35	35	47	39	34	34
6.0	53	45	45	52	51	44	44
10				75	74	63	63
16				112	96	84	84
25				148	135	115	116
35				188	167	142	143
50				226	208	176	177