目 录 CONTENTS

电力电缆
POWER CABLES

电气装备用电线电缆
ELECTRIC EQUIPMENTS INSTALLATION WIRES • CABLES

特种电缆
SPECIAL CABLES

电力电缆
POWERCABLES

TIANKANG

安徽天康(集团)股份有限公司

ANHUI TIANKANG(GROUP)SHARES CO.,LTD.

35kV 及以下交联聚乙烯绝缘电力电缆

XLPE Insulation Power Cable of 35kV or lower

本产品适用于固定敷设在交流50Hz，额定电压35kV及以下的电力输配电线路上作输送电能。与聚氯乙烯绝缘电力电缆相比，该产品不仅具有优异的电气性能、机械性能、耐热老化性能、耐环境应力和耐化学腐蚀性能的能力，而且结构简单，重量轻，不受敷设落差限制，长期工作温度高（90℃）等特点。

The cable is used to transmit power on the power transmission and distribution line of A.C.50Hz,rated voltage 35kV or lower .In comparison with PVC insulation cable ,it boasts not only excellent electric character,mechanical character,heat and aging-resistant character,environmental stress-resistant character and chemical corrosion-resistant character,but simple structure,light weight ,no restriction by laying drop,and high temperature allowance for long-term working(90℃)as well.

生产执行标准:

GB/T12706.1~12706.4-2002《额定电压1kV(Um=1.2kV)到35kV(Um=40.5kV)挤包绝缘电力电缆及附件》，也可按用户需要，采用国际电工委员会IEC60502-1997标准生产。

Executive standard :

as section 《extrusion insulated power cable & accessories rated voltage 1kV(Um=1.2kV)-35kV (Um=40.5kV)》in GB12706.1-12706.4-2002 or IEC60502-1997

使用特点

1.电缆敷设时的环境温度不得低于0℃，否则电缆需预先加热。

2.电缆的最小弯曲半径规定如下:

单芯: 20(d+D)±5%，三芯: 15(d+D)±5%

(式中D为电缆实际外径，d为导体实际外径)

电缆导体的最高额定温度为90℃，短路时（最长持续时间不超过5秒），温度不超过250℃。

Working Conditions:

1.Environment temperatue should be no lower than0℃ for laying the cable, otherwise the cable should be pre-heated.

2.The minimum cable bending radius is stipulated as follows:

single core :20(d+D)±5%;3cores: 15(d+D)±5%; (D for actual cable outer diameter,d for that of conductor)

The highest rated temperature of the conductor is 90℃, no higher than 250℃ in time of short circuit (lasting no longer than 5 seconds)

电缆的型号、名称及适用场合

Type ,Description &Application Occasion

型号 Type		名 称 Description	适用场合 Application Occasion
铜Cu	铝Al		
YJV	YJLV	交联聚乙烯绝缘聚氯乙烯护套电力电缆 XLPE insulation PVC sheath power cable	敷设在室内、隧道、电缆沟及管道中，也可埋在松散的土壤中，电缆不能承受机械外力作用。单芯电缆不允许敷设在磁性管道中。 To be laid indoors, in tunnel, cable furrow, and pipe, or under soft soil, the cable couldn,t bear mechanical force outside.
YJY	YJLY	交联聚乙烯绝缘聚乙烯护套电力电缆 XLPE insulation PE sheath power cable	
YJV22	YJLV22	交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 XLPE insulation steel tape armored PVC sheath power cable	直埋敷设在地下，电缆能承受一定机械外力作用，但不能承受大的拉力。 To be laid underground , the cable could bear mechanical force outside, but it couldn’t bear great pulling force.
YJV23	YJLV23	交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 XLPE insulation steel tape armored PVC sheath power cable	

注：还可根据用户需要，生产钢丝铠装型结构，如：YJV32、YJLV32型等。

阻燃型电缆，订货时在原型号前加“ZR-”。

Remarks:We may produce the cable with steel wire armor structure as userÕs demand, for example YJV32, YJLV32 types,etc.

Code prefix “ZR-” should be added to the original code in ordering on flame-retardant cable.



电缆的额定电压、标称截面及芯数

Rated Voltage,Nominal Cross-section Area &Core Numbers:

型 号 Type		芯数 Core No	额定电压 Rated Voltage (kV)							
铜 Cu	铝 Al		0.6/1	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/20 18/30	21/35	26/35
YJV YJY	YJLV YJLY	1	1.5~400	25~500	25~500	25~500	35~500	50~500	50~500	50~500
		3	1.5~300	25~300	25~300	25~300	35~300	50~300	50~300	50~300
		2	1.5~150	-	-	-	-	-	-	-
		3+1	4~400	-	-	-	-	-	-	-
		3+2、4+1	50~240	-	-	-	-	-	-	-
		5	1.5~35	-	-	-	-	-	-	-
YJV22 YJV23	YJLV22 YJLV23	1	4~400	25~500	25~500	25~500	35~500	50~500	50~500	50~500
		3	2.5~300	25~300	25~300	25~300	35~300	50~300	50~300	50~300
		2	4~150	-	-	-	-	-	-	-
		3+1	4~300	-	-	-	-	-	-	-
		3+2、4+1	50~240	-	-	-	-	-	-	-
		5	2.5~35	-	-	-	-	-	-	-

电缆结构尺寸及主要技术参数

Structural Size & Major Technical Parameters:

YJV、YJLV、（单芯 single core）

0.6/1kV **单芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

0.6/1kV single core,XLPE insulation ,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	mm	Kg/Km	Kg/Km	Ω /Km	Ω /Km	kV	A	A	A	A
1.5	0.7	1.5	5.8	53	--	⩽ 12.1	-	3.5	22	--	40	--
2.5	0.7	1.5	6.2	68	53	⩽ 7.41	⩽ 12.1	3.5	30	--	54	--
4	0.7	1.5	6.7	87	64	⩽ 4.61	⩽ 7.41	3.5	39	--	71	--
6	0.7	1.5	7.2	110	73	⩽ 3.08	⩽ 4.61	3.5	50	--	91	--
10	0.7	1.5	8.0	115	95	⩽ 1.83	⩽ 3.08	3.5	70	53	123	95
16	0.7	1.5	8.9	220	120	⩽ 1.15	⩽ 1.91	3.5	94	85	158	156
25	0.9	1.5	10.4	345	190	⩽ 0.727	⩽ 1.20	3.5	124	99	201	159
35	0.9	1.5	11.5	424	207	⩽ 0.524	⩽ 0.868	3.5	154	118	244	191
50	1.0	1.5	13.0	555	245	⩽ 0.387	⩽ 0.641	3.5	191	150	292	224
70	1.1	1.5	14.0	770	336	⩽ 0.268	⩽ 0.443	3.5	241	185	355	283
95	1.1	1.5	16.4	1040	455	⩽ 0.193	⩽ 0.320	3.5	297	231	433	338
120	1.2	1.5	17.8	1290	550	⩽ 0.153	⩽ 0.253	3.5	346	268	496	387
150	1.4	2.0	20.6	1590	650	⩽ 0.124	⩽ 0.206	3.5	399	308	554	430
185	1.6	2.0	22.5	1944	804	⩽ 0.0991	⩽ 0.164	3.5	465	365	624	490
240	1.7	2.0	24.9	2510	1021	⩽ 0.0754	⩽ 0.125	3.5	552	427	726	568
300	1.8	2.5	27.3	3076	1238	⩽ 0.0601	⩽ 0.100	3.5	652	502	819	639
400	2.0	2.5	34.1	3642	1455	⩽ 0.0470	⩽ 0.0778	3.5	777	590	934	701

0.6/1kV **二芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

0.6/1kV 2 cores,XLPE insulation ,PVC sheath power cable

YJV、YJLV、（2芯　2 cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	mm	kg/km	kg/km	Ω/km	Ω/km	kV	A	A	A	A
1.5	0.7	1.8	9.4	103	--	⩽ 12.1	--	3.5	25	--	36	--
2.5	0.7	1.8	10.2	131	99	⩽ 7.41	⩽ 12.1	3.5	33	--	47	--
4	0.7	1.8	11.2	168	118	⩽ 4.61	⩽ 7.41	3.5	44	--	63	--
6	0.7	1.8	12.2	216	142	⩽ 3.08	⩽ 4.61	3.5	55	--	78	--
10	0.7	1.8	15.2	328	189	⩽ 1.83	⩽ 3.08	3.5	77	59	105	80
16	0.7	1.8	17.3	461	245	⩽ 1.15	⩽ 1.91	3.5	101	78	136	104
25	0.9	1.8	20.4	659	329	⩽ 0.727	⩽ 1.20	3.5	140	106	189	139
35	0.9	1.8	22.4	868	413	⩽ 0.524	⩽ 0.868	3.5	173	130	217	169
50	1.0	1.8	20.2	1116	489	⩽ 0.387	⩽ 0.641	3.5	218	150	258	198
70	1.1	1.8	22.5	1514	644	⩽ 0.268	⩽ 0.443	3.5	264	191	315	246
95	1.1	1.8	25.4	2017	830	⩽ 0.193	⩽ 0.320	3.5	331	256	377	293
120	1.2	1.9	28.3	2526	1026	⩽ 0.153	⩽ 0.253	3.5	379	293	422	334
150	1.4	2.0	31.3	3139	1286	⩽ 0.124	⩽ 0.206	3.5	433	336	482	372

0.6/1kV **三芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

0.6/1kV 3 cores,XLPE insulation ,PVC sheath power cable

YJV、YJLV、（3芯　3 cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	mm	kg/km	kg/km	Ω /Km	Ω /Km	kV	A	A	A	A
1.5	0.7	1.5	9.4	145	--	⩽ 12.1	--	3.5	21	--	25	--
2.5	0.7	1.5	10.7	185	140	⩽ 7.41	⩽ 12.1	3.5	28	--	33	--
4	0.7	1.5	11.8	250	175	⩽ 4.61	⩽ 7.41	3.5	37	--	44	--
6	0.7	1.5	12.9	320	210	⩽ 3.08	⩽ 4.61	3.5	46	--	54	--
10	0.7	1.5	14.6	450	260	⩽ 1.83	⩽ 3.08	3.5	63	48	73	56
16	0.7	1.5	16.5	640	340	⩽ 1.15	⩽ 1.91	3.5	84	65	94	72
25	0.9	2.0	20.8	940	470	⩽ 0.727	⩽ 1.20	3.5	109	85	120	93
35	0.9	2.0	23.2	1260	600	⩽ 0.524	⩽ 0.868	3.5	132	102	144	111
50	1.0	2.0	26.4	1670	730	⩽ 0.387	⩽ 0.641	3.5	159	123	169	131
70	1.1	2.0	29.9	2280	970	⩽ 0.268	⩽ 0.443	3.5	195	152	205	159
95	1.1	2.0	33.3	3020	1240	⩽ 0.193	⩽ 0.320	3.5	237	184	245	190
120	1.2	2.5	37.8	3795	1540	⩽ 0.153	⩽ 0.253	3.5	273	213	278	216
150	1.4	2.5	41.7	4750	1940	⩽ 0.124	⩽ 0.206	3.5	310	241	309	240
185	1.6	2.5	44.6	5654	2248	⩽ 0.0991	⩽ 0.164	3.5	355	277	347	271
240	1.7	2.5	50.1	7243	2723	⩽ 0.0754	⩽ 0.125	3.5	416	326	399	312
300	1.8	3.0	55.6	8832	3218	⩽ 0.0601	⩽ 0.100	3.5	473	372	446	351

0.6/1kV 四芯交联聚乙烯绝缘聚氯乙烯护套电力电缆
0.6/1kV 4 cores,XLPE insulation ,PVC sheath power cable

YJV、YJLV、（4 芯　4 cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm²	mm	mm	mm	kg/km	kg/km	Ω /Km	Ω /Km	kV	A	A	A	A
1.5	0.7	1.5	10.6	139	84	≤ 12.1	--	3.5	21	--	25	--
2.5	0.7	1.5	11.5	150	107	≤ 7.41	≤ 12.1	3.5	28	--	33	--
4	0.7	1.5	12.8	253	151	≤ 4.61	≤ 7.41	3.5	37	--	44	--
6	0.7	1.5	14.0	337	198	≤ 3.08	≤ 4.61	3.5	46	--	54	--
10	0.7	1.5	15.9	501	291	≤ 1.83	≤ 3.08	3.5	63	48	73	56
16	0.7	2.0	19.1	778	455	≤ 1.15	≤ 1.91	3.5	84	63	94	72
25	0.9	2.0	22.7	1160	696	≤ 0.727	≤ 1.20	3.5	109	85	120	93
35	0.9	2.0	25.4	1554	905	≤ 0.524	≤ 0.868	3.5	132	102	144	111
50	1.0	2.0	29.0	2148	1235	≤ 0.387	≤ 0.641	3.5	159	123	169	131
70	1.1	2.0	32.9	2928	1640	≤ 0.268	≤ 0.443	3.5	195	152	205	159
95	1.1	2.5	37.7	3954	2294	≤ 0.193	≤ 0.320	3.5	237	184	245	190
120	1.2	2.5	41.6	4925	2865	≤ 0.153	≤ 0.253	3.5	273	213	278	216
150	1.4	3.0	47.6	6238	3618	≤ 0.124	≤ 0.206	3.5	310	241	309	240
185	1.6	3.0	50.6	7562	4395	≤ 0.0991	≤ 0.164	3.5	355	277	347	271
240	1.7	3.0	56.4	9660	5603	≤ 0.0754	≤ 0.125	3.5	416	326	399	312
300	1.8	3.5	62.2	11758	6585	≤ 0.0601	≤ 0.100	3.5	473	372	446	351

0.6/1kV (3+1)芯交联聚乙烯绝缘聚氯乙烯护套电力电缆
0.6/1kV (3+1) cores,XLPE insulation ,PVC sheath power cable

YJV、YJLV、（3+1 芯　3+1 cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm²	mm	mm	mm	kg/km	kg/km	Ω /Km	Ω /Km	kV	A	A	A	A
4	0.7	1.5	12.5	236	180	≤ 4.61	≤ 7.41	3.5	37	--	44	--
6	0.7	1.5	13.7	316	210	≤ 3.08	≤ 4.61	3.5	46	--	54	--
10	0.7	1.5	15.4	460	380	≤ 1.83	≤ 3.08	3.5	63	48	73	56
16	0.7	2.0	17.5	679	375	≤ 1.15	≤ 1.91	3.5	84	64	94	72
25	0.9	2.0	21.8	1065	586	≤ 0.727	≤ 1.20	3.5	109	85	120	93
35	0.9	2.0	23.8	1368	821	≤ 0.524	≤ 0.868	3.5	132	102	144	111
50	1.0	2.0	27.4	1901	1141	≤ 0.387	≤ 0.641	3.5	159	123	169	131
70	1.1	2.0	31.0	2585	1463	≤ 0.268	≤ 0.443	3.5	195	152	205	159
95	1.1	2.5	34.8	3718	2231	≤ 0.193	≤ 0.320	3.5	237	184	245	190
120	1.2	2.5	39.7	4443	2665	≤ 0.153	≤ 0.253	3.5	273	213	278	216
150	1.4	3.0	42.9	5326	3190	≤ 0.124	≤ 0.206	3.5	310	241	309	240
185	1.6	3.0	47.4	6628	3842	≤ 0.0991	≤ 0.164	3.5	355	277	347	271
240	1.7	3.0	52.7	8501	5001	≤ 0.0754	≤ 0.125	3.5	416	326	399	312
300	1.8	3.5	58.0	10320	5679	≤ 0.0601	≤ 0.100	3.5	473	372	446	351

0.6/1kV **五芯** (3+2)**交联聚乙烯绝缘聚氯乙烯护套电力电缆**

YJV、YJLV、（3+2芯　　3+2 cores）　　0.6/1kV 5(3+2) cores,XLPE insulation ,PVC sheath power cable

导体标称截面 Nominal Cross Section Area		绝缘厚度 Insulation Thickness		护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
											在空气中 in the air		直埋土壤中 to be laid underground	
相	副	相	副			铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm^2	mm	mm	mm	mm	kg/km	kg/km	Ω /Km	Ω /Km	kV	A	A	A	A
50	25	1.0	0.9	1.8	28.2	2268	1003	⩽ 0.387	⩽ 0.641	3.5	159	123	169	131
70	35	1.1	0.9	2.0	32.8	3116	1345	⩽ 0.268	⩽ 0.443	3.5	195	152	205	159
95	50	1.1	1.0	2.1	37.0	4176	1741	⩽ 0.193	⩽ 0.320	3.5	237	184	245	190
120	70	1.2	1.1	2.3	41.4	5375	2213	⩽ 0.153	⩽ 0.253	3.5	273	213	278	216
150	70	1.4	1.1	2.4	44.5	6305	2574	⩽ 0.124	⩽ 0.206	3.5	310	241	309	240
185	95	1.6	1.1	2.5	49.2	7889	3178	⩽ 0.0991	⩽ 0.164	3.5	355	277	347	271
240	120	1.7	1.2	2.7	54.7	10051	3980	⩽ 0.0754	⩽ 0.125	3.5	416	326	399	312

0.6/1kV **五芯** (4+1)**交联聚乙烯绝缘聚氯乙烯护套电力电缆**

YJV、YJLV、（4+1芯　　4+1 cores）　　0.6/1kV 5(4+1) cores,XLPE insulation ,PVC sheath power cable

导体标称截面 Nominal Cross Section Area		绝缘厚度 Insulation Thickness		护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
											在空气中 in the air		直埋土壤中 to be laid underground	
相	副	相	副			铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm^2	mm	mm	mm	mm	kg/km	kg/km	Ω /Km	Ω /Km	kV	A	A	A	A
50	25	1.0	0.9	1.8	28.2	2268	1003	⩽ 0.387	⩽ 0.641	3.5	159	123	169	131
70	35	1.1	0.9	2.0	32.8	3116	1345	⩽ 0.268	⩽ 0.443	3.5	195	152	205	159
95	50	1.1	1.0	2.1	37.0	4176	1741	⩽ 0.193	⩽ 0.320	3.5	237	184	245	190
120	70	1.2	1.1	2.3	41.4	5375	2213	⩽ 0.153	⩽ 0.253	3.5	273	213	278	216
150	70	1.4	1.1	2.4	44.5	6305	2574	⩽ 0.124	⩽ 0.206	3.5	310	241	309	240
185	95	1.6	1.1	2.5	49.2	7889	3178	⩽ 0.0991	⩽ 0.164	3.5	355	277	347	271
240	120	1.7	1.2	2.7	54.7	10051	3980	⩽ 0.0754	⩽ 0.125	3.5	416	326	399	312

0.6/1kV 5 **芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

YJV、YJLV、（5芯　　5 cores）　　0.6/1kV 5cores,XLPE insulation ,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	mm	kg/km	kg/km	Ω /Km	Ω /Km	kV	A	A	A	A
1.5	0.7	1.5	9.4	145	--	⩽ 12.1	--	3.5	21	--	25	--
2.5	0.7	1.5	10.7	185	140	⩽ 7.41	⩽ 12.1	3.5	28	--	33	--
4	0.7	1.5	11.8	250	175	⩽ 4.61	⩽ 7.41	3.5	37	--	44	--
6	0.7	1.5	12.9	320	210	⩽ 3.08	⩽ 4.61	3.5	46	--	54	--
10	0.7	1.5	14.6	450	260	⩽ 1.83	⩽ 3.08	3.5	63	48	73	56
16	0.7	1.5	16.5	640	340	⩽ 1.15	⩽ 1.91	3.5	84	63	94	72
25	0.9	2.0	20.8	940	470	⩽ 0.727	⩽ 1.20	3.5	109	85	120	93
35	0.9	2.0	23.2	1260	600	⩽ 0.524	⩽ 0.868	3.5	132	102	144	111



0.6/1kV **二芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆**

0.6/1kV 2 cores,XLPE insulation ,steel tape armored,PVC sheath power cable

YJV22、YJLV22、（2芯　2 cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	kV	A	A	A	A
4	0.7	1.8	14.4	325	228	⩽ 4.61	⩽ 7.41	3.5	49	--	59	--
6	0.7	1.8	15.4	387	254	⩽ 3.08	⩽ 4.61	3.5	61	--	73	--
10	0.7	1.8	18.4	538	310	⩽ 1.83	⩽ 3.08	3.5	82	64	97	74
16	0.7	1.8	20.5	700	372	⩽ 1.15	⩽ 1.91	3.5	119	105	126	123
25	0.9	1.8	23.6	939	468	⩽ 0.727	⩽ 1.20	3.5	146	111	162	127
35	0.9	1.8	25.6	1174	558	⩽ 0.524	⩽ 0.868	3.5	176	135	195	152
50	1.0	1.8	23.4	1393	610	⩽ 0.387	⩽ 0.641	3.5	212	162	230	198
70	1.1	1.8	26.2	2132	906	⩽ 0.268	⩽ 0.443	3.5	257	200	281	219
95	1.1	1.9	29.5	2694	1108	⩽ 0.193	⩽ 0.320	3.5	265	205	339	262
120	1.2	2.0	33.0	3276	1330	⩽ 0.153	⩽ 0.253	3.5	367	284	386	300
150	1.4	2.1	36.1	3997	1637	⩽ 0.124	⩽ 0.206	3.5	414	320	433	336

0.6/1kV **三芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆**

0.6/1kV 3 cores,XLPE insulation ,steel tape armored,PVC sheath power cable

YJV22、YJLV22、（3芯　3 cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	kV	A	A	A	A
1.5	0.7	1.5	13.0	273	--	⩽ 12.1	--	3.5	21	--	25	--
2.5	0.7	1.5	13.9	321	208	⩽ 7.41	⩽ 12.1	3.5	28	--	33	--
4	0.7	1.5	15.0	390	254	⩽ 4.61	⩽ 7.41	3.5	37	--	43	--
6	0.7	1.5	16.1	471	144	⩽ 3.08	⩽ 4.61	3.5	47	--	54	--
10	0.7	1.5	17.8	622	404	⩽ 1.83	⩽ 3.08	3.5	63	49	71	55
16	0.7	2.0	21.5	1005	650	⩽ 1.15	⩽ 1.91	3.5	84	64	92	70
25	0.9	2.0	24.8	1371	891	⩽ 0.727	⩽ 1.20	3.5	110	85	118	92
35	0.9	2.0	27.2	1724	1121	⩽ 0.524	⩽ 0.868	3.5	134	104	141	110
50	1.0	2.0	30.4	2247	1573	⩽ 0.387	⩽ 0.641	3.5	161	124	167	129
70	1.1	2.5	35.3	3023	1965	⩽ 0.268	⩽ 0.443	3.5	197	153	203	158
95	1.1	2.5	38.7	3825	2486	⩽ 0.193	⩽ 0.320	3.5	239	185	242	188
120	1.2	2.5	42.2	4642	3017	⩽ 0.153	⩽ 0.253	3.5	275	214	274	213
150	1.4	3.0	47.5	5767	3749	⩽ 0.124	⩽ 0.206	3.5	314	242	305	237
185	1.6	3.0	52.8	6892	4480	⩽ 0.0991	⩽ 0.164	3.5	354	277	341	267
240	1.7	3.0	58.1	8017	5215	⩽ 0.0754	⩽ 0.125	3.5	414	325	392	308
300	1.8	3.5	63.4	9142	5946	⩽ 0.0601	⩽ 0.100	3.5	470	370	438	344

0.6/1kV **四芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆**

0.6/1kV 4 cores,XLPE insulation ,steel tape armored,PVC sheath power cable

YJV22、YJLV22、（4芯　4 cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
				铜 Cu	铝 Al	铜 Cu	铝 Al		在空气中 in the air		直埋土壤中 to be laid underground	
									铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	mm	kg/km	kg/km	Ω/km	Ω/km	kV	A	A	A	A
1.5	0.7	1.5	13.8	307	209	⩽ 12.1	--	3.5	21	--	25	--
2.5	0.7	1.5	14.7	367	250	⩽ 7.41	⩽ 12.1	3.5	28	--	33	--
4	0.7	1.5	16.0	454	309	⩽ 4.61	⩽ 7.41	3.5	37	--	43	--
6	0.7	1.5	17.2	557	379	⩽ 3.08	⩽ 4.61	3.5	47	--	54	--
10	0.7	1.5	20.1	791	538	⩽ 1.83	⩽ 3.08	3.5	63	49	71	55
16	0.7	2.0	23.1	1210	823	⩽ 1.15	⩽ 1.91	3.5	84	64	92	70
25	0.9	2.0	26.7	1672	1134	⩽ 0.727	⩽ 1.20	3.5	110	85	118	92
35	0.9	2.0	29.4	2127	1446	⩽ 0.524	⩽ 0.868	3.5	134	104	141	110
50	1.0	2.0	33.0	2802	1906	⩽ 0.387	⩽ 0.641	3.5	161	124	167	129
70	1.1	2.5	38.3	3785	2574	⩽ 0.268	⩽ 0.443	3.5	197	153	203	158
95	1.1	2.5	42.1	4829	3284	⩽ 0.193	⩽ 0.320	3.5	239	185	242	188
120	1.2	2.5	47.4	6033	4103	⩽ 0.153	⩽ 0.253	3.5	275	214	274	213
150	1.4	3.0	52.2	7356	5002	⩽ 0.124	⩽ 0.206	3.5	314	242	305	237
185	1.6	3.0	57.0	8679	5902	⩽ 0.0991	⩽ 0.164	3.5	354	277	341	267
240	1.7	3.0	61.8	10002	6802	⩽ 0.0754	⩽ 0.125	3.5	414	325	392	308
300	1.8	3.5	66.6	12325	8381	⩽ 0.0601	⩽ 0.100	3.5	470	370	438	344

0.6/1kV (3+1)**交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆**

0.6/1kV (3+1) cores,XLPE insulation, steel tape armored,PVC sheath power cable

YJV22、YJLV22、（3+1芯 3+1cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
				铜 Cu	铝 Al	铜 Cu	铝 Al		在空气中 in the air		直埋土壤中 to be laid underground	
									铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	mm	kg/km	kg/km	Ω/km	Ω/km	kV	A	A	A	A
1.5	--	--	--	--	--	--	--	--	21	--	25	--
2.5	--	--	--	--	--	--	--	--	28	--	33	--
4	0.7	1.5	15.7	443	288	⩽ 4.61	⩽ 7.41	3.5	37	--	43	--
6	0.7	1.5	15.9	513	372	⩽ 3.08	⩽ 4.61	3.5	47	--	54	--
10	0.7	1.5	19.6	741	519	⩽ 1.83	⩽ 3.08	3.5	63	49	71	55
16	0.7	2.0	22.5	1135	795	⩽ 1.15	⩽ 1.91	3.5	84	64	92	70
25	0.9	2.0	25.8	1556	1089	⩽ 0.727	⩽ 1.20	3.5	110	85	118	92
35	0.9	2.0	27.8	1896	1327	⩽ 0.524	⩽ 0.868	3.5	134	104	141	110
50	1.0	2.0	31.4	2518	1763	⩽ 0.387	⩽ 0.641	3.5	161	124	167	129
70	1.1	2.5	36.4	3393	2375	⩽ 0.268	⩽ 0.443	3.5	197	153	203	158
95	1.1	2.5	40.2	4349	3044	⩽ 0.193	⩽ 0.320	3.5	239	185	242	188
120	1.2	2.5	44.1	5365	3756	⩽ 0.153	⩽ 0.253	3.5	275	214	274	213
150	1.4	3.0	48.7	6468	4528	⩽ 0.124	⩽ 0.206	3.5	314	242	305	237
185	1.6	3.0	53.5	7571	5299	⩽ 0.0991	⩽ 0.164	3.5	354	277	341	267
240	1.7	3.0	58.9	8674	6072	⩽ 0.0754	⩽ 0.125	3.5	414	325	392	308
300	1.8	3.5	63.5	9777	6844	⩽ 0.0601	⩽ 0.100	3.5	470	370	438	344



0.6/1kV **五芯** (3+2)**交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆**

0.6/1kV 5(3+2) cores,XLPE insulation ,steel tape armored,PVC sheath power cable

YJV22、YJLV22、（ 3+2 芯 3+2 cores）

导体标称截面 Nominal Cross Section Area		绝缘厚度 Insulation Thickness		护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
											在空气中 in the air		直埋土壤中 to be laid underground	
相	副	相	副			铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm²	mm²	mm	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	kV	A	A	A	A
50	25	1.0	0.9	2.0	32.7	2876	1611	⩽ 0.387	⩽ 0.641	3.5	161	124	167	129
70	35	1.1	0.9	2.2	38.3	4150	2379	⩽ 0.268	⩽ 0.443	3.5	197	153	203	158
95	50	1.1	1.0	2.3	42.6	5345	2910	⩽ 0.193	⩽ 0.320	3.5	239	185	242	188
150	70	1.2	1.1	2.5	47.2	6696	3534	⩽ 0.153	⩽ 0.253	3.5	275	214	274	213
120	70	1.4	1.1	2.6	50.5	7746	4015	⩽ 0.124	⩽ 0.206	3.5	314	242	305	237
185	95	1.6	1.1	2.7	55.3	9499	4788	⩽ 0.0991	⩽ 0.164	3.5	354	277	341	267
240	120	1.7	1.2	2.9	61.2	11878	5807	⩽ 0.0754	⩽ 0.125	3.5	414	325	392	308

0.6/1kV **五芯** (4+1)**交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆**

0.6/1kV 5(4+1) cores,XLPE insulation ,steel tape armored,PVC sheath power cable

YJV22、YJLV22、（ 4+1 芯 4+1 cores）

导体标称截面 Nominal Cross Section Area		绝缘厚度 Insulation Thickness		护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
											在空气中 in the air		直埋土壤中 to be laid underground	
相	副	相	副			铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm²	mm²	mm	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	kV	A	A	A	A
50	25	1.0	0.9	2.0	33.9	3153	1730	⩽ 0.387	⩽ 0.641	3.5	161	124	167	129
70	35	1.1	0.9	2.2	39.9	4554	2562	⩽ 0.268	⩽ 0.443	3.5	197	153	203	158
95	50	1.1	1.0	2.4	44.7	5896	3176	⩽ 0.193	⩽ 0.320	3.5	239	185	242	188
120	70	1.2	1.1	2.5	48.7	7248	3770	⩽ 0.153	⩽ 0.253	3.5	275	214	274	213
150	70	1.4	1.1	2.6	52.7	8620	4383	⩽ 0.124	⩽ 0.206	3.5	314	242	305	237
185	95	1.6	1.1	2.8	57.9	10520	5240	⩽ 0.0991	⩽ 0.164	3.5	354	277	341	267
240	120	1.7	1.2	3.0	64.2	13199	6369	⩽ 0.0754	⩽ 0.125	3.5	414	325	392	308

0.6/1kV **五芯 交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆**

0.6/1kV 5 cores,XLPE insulation ,steel tape armored,PVC sheath power cable

YJV22、YJLV22、（ 5 芯　 5 cores）

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		试验电压 Testing Voltage	电缆载流量 Current-loading Capacity			
									在空气中 in the air		直埋土壤中 to be laid underground	
				铜 Cu	铝 Al	铜 Cu	铝 Al		铜 Cu	铝 Al	铜 Cu	铝 Al
mm²	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	kV	A	A	A	A
2.5	0.7	1.8	17.0	252	--	⩽ 7.41	⩽ 12.1	3.5	28	--	33	--
4	0.7	1.8	18.3	359	--	⩽ 4.61	⩽ 7.41	3.5	37	--	43	--
6	0.7	1.8	19.7	472	--	⩽ 3.08	⩽ 4.61	3.5	47	--	54	--
10	0.7	1.8	23.5	713	392	⩽ 1.83	⩽ 3.08	3.5	63	49	71	55
16	0.7	1.8	26.0	1053	539	⩽ 1.15	⩽ 1.91	3.5	84	64	92	70
25	0.9	1.9	31.0	1583	780	⩽ 0.727	⩽ 1.20	3.5	110	85	118	92
35	0.9	2.1	34.3	2134	1009	⩽ 0.524	⩽ 0.868	3.5	134	104	141	110

3.6/6kV 单芯交联聚乙烯绝缘聚氯乙烯护套电力电缆

YJV、YJLV（单芯 single core)

3.6/6kV single core, XLPE insudation,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 D.C.Conductor Resistanceat 20℃		电缆载流量 Current-loading Capacity				短路电流 Current-loading Capacity		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	2.5	1.8	19.0	617	459	0.727	1.200	165	130	160	120	3.69	2.42	1.075
35	2.5	1.8	20.0	736	515	0.524	0.868	205	155	190	145	5.15	3.37	1.074
50	2.5	1.8	22.0	903	587	0.387	0.641	245	190	225	175	7.31	4.79	1.072
70	2.5	1.8	23.0	1129	687	0.268	0.443	305	235	275	215	10.2	6.68	1.070
95	2.5	1.8	25.0	1407	807	0.193	0.320	370	290	330	255	13.8	9.68	1.069
120	2.5	1.8	26.0	1676	918	0.153	0.253	430	335	375	290	17.4	11.4	1.068
150	2.5	1.8	28.0	1990	1043	0.124	0.206	490	380	426	330	21.7	14.2	1.067
185	2.5	1.9	30.0	2358	1190	0.0991	0.164	560	435	480	370	26.7	17.5	1.064
240	2.8	1.9	32.0	2935	1420	0.0754	0.125	665	515	555	435	34.6	22.6	1.241
300	2.8	2.0	35.0	3648	1754	0.0601	0.100	765	595	630	490	43.1	28.2	1.239
400	3.0	2.1	39.0	4675	2149	0.0470	0.0778	890	695	725	565	57.4	37.6	1.240

6/6kV,6/10kV 单芯交联聚乙烯绝缘聚氯乙烯护套电力电缆

YJV、YJLV（单芯 single core)

6/6kV,6/10kV single core,XLPE insulation ,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 D.C.Conductor Resistanceat 20℃		电缆载流量 Current-loading Capacity				短路电流 Current-loading Capacity		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	3.4	1.8	21.0	685	527	0.727	1.200	165	130	160	120	3.69	2.42	1.083
35	3.4	1.8	22.0	807	586	0.524	0.868	205	155	190	145	5.15	3.37	1.082
50	3.4	1.8	23.0	977	661	0.387	0.641	245	190	225	175	7.31	4.79	1.080
70	3.4	1.8	25.0	1207	765	0.268	0.443	305	235	275	215	10.2	6.68	1.079
95	3.4	1.8	27.0	1489	889	0.193	0.320	370	290	330	255	13.8	9.68	1.077
120	3.4	1.8	28.0	1762	1004	0.153	0.253	430	335	375	290	17.4	11.4	1.077
150	3.4	1.9	30.0	2080	1133	0.124	0.206	490	380	426	330	21.7	14.2	1.076
185	3.4	2.0	32.0	2453	1285	0.0991	0.164	560	435	480	370	26.7	17.5	1.251
240	3.4	2.1	34.0	3100	1584	0.0754	0.125	665	515	555	435	34.6	22.6	1.250
300	3.4	2.2	36.0	3723	1829	0.0601	0.100	765	595	630	490	43.1	28.2	1.246
400	3.4	2.3	40.0	4728	2203	0.0470	0.0778	890	695	725	565	57.4	37.6	1.245



8.7/10kV,8.7/15kV **单芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

8.7/10kV,8.7/15kV single core,XLPE insulation ,PVC sheath power cable

YJV、YJLV（单芯 single core)

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 D.C.Conductor Resistanceat 20℃		电缆载流量 Current-loading Capacity				短路电流 Current-loading Capacity		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	4.5	1.8	23.0	775	617	0.727	1.200	165	130	160	120	3.69	2.42	1.094
35	4.5	1.8	4.0	889	678	0.524	0.868	205	155	190	145	5.15	3.37	1.092
50	4.5	1.8	26.0	1073	757	0.387	0.641	245	190	225	175	7.31	4.79	1.091
70	4.5	1.8	27.0	1308	866	0.268	0.443	305	235	275	215	10.2	6.68	1.090
95	4.5	1.8	29.0	1596	996	0.193	0.320	370	290	330	255	13.8	9.03	1.086
120	4.5	1.9	30.0	1874	1116	0.153	0.253	430	335	375	290	17.4	11.4	1.266
150	4.5	1.9	32.0	2194	1250	0.124	0.206	490	380	426	330	21.7	14.2	1.265
185	4.5	2.0	34.0	2649	1481	0.0991	0.164	560	435	480	370	26.7	17.5	1.264
240	4.5	2.1	36.0	3234	1719	0.0754	0.125	665	515	555	435	34.6	22.6	1.262
300	4.5	2.1	38.0	3865	1971	0.0601	0.100	765	595	630	490	43.1	28.2	1.261
400	4.5	2.3	42.0	4830	2354	0.0470	0.0778	890	695	725	565	57.4	37.6	1.256

12/20kV **单芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

12/20kV single core,XLPE insulation ,PVC sheath power cable

YJV、YJLV（单芯 single core)

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 D.C.Conductor Resistanceat 20℃		电缆载流量 Current-loading Capacity				短路电流 Current-loading Capacity		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35	5.5	1.8	26.0	990	769	0.524	0.868	205	155	190	145	5.51	3.37	1.096
50	5.5	1.8	28.0	1166	851	0.387	0.641	245	190	225	175	7.31	4.79	1.095
70	5.5	1.9	29.0	1407	965	0.268	0.443	305	235	275	215	10.2	6.68	1.091
95	5.5	1.9	31.0	1700	1100	0.193	0.320	370	290	330	255	13.8	9.03	1.272
120	5.5	2.0	33.0	1982	1224	0.153	0.253	430	335	375	290	17.4	11.4	1.271
150	5.5	2.0	34.0	2338	1436	0.124	0.206	490	380	426	330	21.7	14.2	1.270
185	5.5	2.1	36.0	2771	1603	0.0991	0.164	560	435	480	370	26.7	17.5	1.267
240	5.5	2.1	38.0	3363	1848	0.0754	0.125	665	515	555	435	34.6	22.6	1.266
300	5.5	2.2	41.0	4000	2106	0.0601	0.100	765	595	630	490	43.1	28.2	1.265
400	5.5	2.3	44.0	5024	2498	0.0470	0.0778	890	695	725	565	57.4	37.6	1.260

18/20kV、18/30/kV **单芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

YJV、YJLV（单芯 single core）　　18/20kV、18/30/kV single core,XLPE insulation,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 D.C.Conductor Resistanceat 20℃		电缆载流量 Current-loading Capacity				短路电流 Current-loading Capacity		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
50	8.0	2.0	33.0	1426	1110	0.387	0.641	245	190	225	175	7.31	4.79	1.284
70	8.0	2.0	35.0	1752	1310	0.268	0.443	305	235	275	215	10.2	6.68	1.281
95	8.0	2.1	36.0	2062	1462	0.193	0.320	370	285	330	255	13.8	9.03	1.280
120	8.0	2.1	38.0	2358	1600	0.153	0.253	425	330	375	290	17.4	11.4	1.279
150	8.0	2.2	40.0	2699	1752	0.124	0.206	485	375	420	325	21.7	14.2	1.278
185	8.0	2.2	41.0	3100	1932	0.0991	0.164	555	430	425	370	26.7	17.5	1.275
240	8.0	2.3	44.0	3709	2194	0.0754	0.125	650	505	555	430	34.6	22.6	1.274
300	8.0	2.4	46.0	4364	2470	0.0601	0.100	745	580	630	490	43.1	28.2	1.271
400	8.0	2.5	49.0	5517	2991	0.0470	0.0778	870	680	720	565	57.4	37.6	1.270

21/35kV **单芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

YJV、YJLV（单芯 single core）　　21/35kV single core,XLPE insulation,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 D.C.Conductor Resistanceat 20℃		电缆载流量 Current-loading Capacity				短路电流 Current-loading Capacity		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
50	9.3	2.1	36.0	1652	1336	0.4936	0.8220	245	190	225	175	7.31	4.79	1.286
70	9.3	2.1	37.0	1913	1471	0.3420	0.5681	305	235	275	215	10.2	6.68	1.285
95	9.3	2.2	39.0	2229	1630	0.2465	0.4105	370	285	330	255	13.8	9.03	1.234
120	9.3	2.2	41.0	2531	1773	0.1956	0.3247	425	330	375	290	17.4	11.4	1.280
150	9.3	2.3	42.0	2878	1931	0.1588	0.2645	485	375	420	325	21.7	14.2	1.279
185	9.3	2.3	44.0	3285	2117	0.1271	0.2107	555	430	425	370	26.7	17.5	1.279
240	9.3	2.4	46.0	3904	2388	0.0971	0.1608	650	505	555	430	34.6	22.6	1.276
300	9.3	2.5	49.0	4568	2674	0.0788	0.1289	745	580	630	490	43.1	28.2	1.275
400	9.3	2.6	52.0	5737	3212	0.615	0.1010	870	680	720	565	57.4	37.6	1.272

26/35kV **单芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

YJV、YJLV（单芯 single core）　　26/35kV single core,XLPE insulation,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 D.C.Conductor Resistanceat 20℃		电缆载流量 Current-loading Capacity				短路电流 Current-loading Capacity		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
50	10.5	2.2	38.0	1803	1487	0.4936	0.8220	245	190	225	175	7.31	4.79	1.288
70	10.5	2.2	40.0	2070	1628	0.3420	0.5681	305	235	275	215	10.2	6.68	1.286
95	10.5	2.3	42.0	2393	1793	0.2465	0.4105	370	285	330	255	13.8	9.03	1.283
120	10.5	2.3	43.0	2699	1942	0.1956	0.3247	425	330	375	290	17.4	11.4	1.282
150	10.5	2.4	45.0	3052	2104	0.1588	0.2645	485	375	420	325	21.7	14.2	1.282
185	10.5	2.4	47.0	3465	2294	0.1271	0.2107	555	430	425	370	26.7	17.5	1.279
240	10.5	2.5	49.0	4092	2577	0.0971	0.1608	650	505	555	430	34.6	22.6	1.278
300	10.5	2.6	51.0	4867	2982	0.0788	0.1289	745	580	630	490	43.1	28.2	1.277
400	10.5	2.7	55.0	5949	3424	0.615	0.1010	870	680	720	565	57.4	37.6	1.274



3.6/6kV **三芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

3.6/6kV 3 cores,XLPE insulation,PVC sheath power cable

YJV、YJLV (3芯 3 cores)

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 20℃D.C.Conductor Resistance		电缆载流量 Current-loading Capacity				短路电流 Short Circuit Current		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Cu	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	2.5	2.1	39.0	1888	1414	0.727	1.200	120	90	125	100	3.69	2.42	2.958
35	2.5	2.2	41.0	2287	1624	0.524	0.868	140	110	155	120	5.15	3.37	2.958
50	2.5	2.3	44.0	2783	1836	0.387	0.641	165	130	180	140	7.31	4.79	2.958
70	2.5	2.4	48.0	3551	2225	0.268	0.443	210	165	220	170	10.2	6.68	2.958
95	2.5	2.5	52.0	4483	2683	0.193	0.320	255	200	265	210	13.8	9.03	2.958
120	2.5	2.6	55.0	5338	3065	0.153	0.253	290	225	300	235	17.4	11.4	2.958
150	2.5	2.8	59.0	6279	3438	0.124	0.206	330	255	340	360	21.7	14.2	2.958
185	2.5	2.9	62.0	7565	4061	0.0991	0.164	375	295	380	300	26.7	17.5	2.958
240	2.6	3.0	68.0	9304	4858	0.0754	0.125	435	345	435	345	34.6	22.6	3.031
300	2.8	3.1	74.0	11371	5689	0.0601	0.100	495	390	485	390	43.1	28.2	3.031

6/6kV, 6/10kV **三芯交联聚乙烯绝缘聚氯乙烯护套电力电缆**

6/6kV, 6/10kV 3 cores,XLPE insulation,PVC sheath power cable

YJV、YJLV (3芯 3 cores)

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 D.C.Conductor Resistanceat 20℃		电缆载流量 Current-loading Capacity				短路电流 Current-loading Capacity		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Cu	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	3.4	2.3	43.0	2132	1658	0.727	1.200	120	90	125	100	3.69	2.42	2.958
35	3.4	2.3	45.0	2491	1828	0.524	0.868	140	110	155	120	5.15	3.37	2.958
50	3.4	2.4	48.0	3091	2144	0.387	0.641	165	130	180	140	7.31	4.79	2.958
70	3.4	2.6	52.0	3884	2558	0.268	0.443	210	165	220	170	10.2	6.68	2.958
95	3.4	2.7	56.0	4778	2978	0.193	0.320	255	200	265	210	13.8	9.03	2.958
120	3.4	2.8	59.0	5595	3322	0.153	0.253	290	225	300	235	17.4	11.4	2.958
150	3.4	2.9	63.0	6732	3891	0.124	0.206	330	255	340	360	21.7	14.2	2.958
185	3.4	3.0	66.0	7954	4450	0.0991	0.164	375	295	380	300	26.7	17.5	2.958
240	3.4	3.2	72.0	7929	5183	0.0754	0.125	435	345	435	345	34.6	22.6	3.031
300	3.4	3.3	77.0	11855	6173	0.0601	0.100	495	390	485	390	43.1	28.2	3.031

8.7/10kV, 8.7/15kV 三芯交联聚乙烯绝缘聚氯乙烯护套电力电缆

YJV、YJLV (3芯 3 cores)

8.7/10kV,8.7/15kV 3 cores,XLPE insulation,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 20℃D.C.Conductor Resistance		电缆载流量 Current-loading Capacity				短路电流 Short Circuit Current		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜Cu	铝Al	铜Cu	铝Al	铜 Cu	铝 Al	铜带 Cu Tape
mm²	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	4.5	2.4	48.0	2486	2102	0.727	1.200	120	90	125	100	3.69	2.42	2.958
35	4.5	2.5	50.0	2963	2300	0.524	0.868	140	110	155	120	5.15	3.37	2.958
50	4.5	2.6	53.0	3481	2534	0.387	0.641	165	130	180	140	7.31	4.79	2.958
70	4.5	2.7	57.0	4036	2911	0.268	0.443	210	165	220	170	10.2	6.68	2.958
95	4.5	2.8	61.0	5147	3348	0.193	0.320	355	200	265	210	13.8	9.03	2.958
120	4.5	2.9	64.0	6116	3843	0.153	0.253	290	225	300	235	17.4	11.4	2.958
150	4.5	3.1	68.0	7187	4346	0.124	0.206	330	255	340	360	21.7	14.2	3.031
185	4.5	3.2	72.0	8379	4874	0.0991	0.164	375	295	380	300	26.7	17.5	3.031
240	4.5	3.3	77.0	10391	5845	0.0754	0.125	435	345	435	345	34.6	22.6	3.031
300	4.5	3.5	82.0	12336	6653	0.0601	0.100	495	390	485	390	43.1	28.2	3.031

12/20kV 三芯交联聚乙烯绝缘聚氯乙烯护套电力电缆

YJV、YJLV (3芯 3 cores)

12/20kV 3 cores,XLPE insulation,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 20℃D.C.Conductor Resistance		电缆载流量 Current-loading Capacity				短路电流 Short Circuit Current		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Cu	铜Cu	铝Al	铜Cu	铝Al	铜 Cu	铝 Al	铜带 Cu Tape
mm²	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35	5.5	2.7	55.0	3233	2570	0.524	0.868	140	110	155	120	5.15	3.37	2.958
50	5.5	2.8	58.0	3810	2862	0.387	0.641	165	130	180	140	7.31	4.79	2.958
70	5.5	2.9	62.0	4710	3384	0.268	0.443	210	165	220	170	10.2	6.68	2.958
95	5.5	3.0	66.0	5693	3894	0.193	0.320	355	200	265	210	13.8	9.03	3.031
120	5.5	3.1	69.0	6546	4272	0.153	0.253	290	225	300	235	17.4	11.4	3.031
150	5.5	3.2	72.0	7580	4739	0.124	0.206	330	255	340	360	21.7	14.2	3.031
185	5.5	3.3	76.0	8836	5331	0.0991	0.164	375	295	380	300	26.7	17.5	3.031
240	5.5	3.5	81.0	10830	6284	0.0754	0.125	435	345	435	345	34.6	22.6	3.031
300	5.5	3.6	86.0	12795	7113	0.0601	0.100	495	390	485	390	43.1	28.2	3.031

3.6/6kV 三芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆

YJV22、YJLV22(3芯 3 cores)

3.6/6kV 3 cores,XLPE insulation, steel tape armored,PVC sheath power cable

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 20℃D.C.Conductor Resistance		电缆载流量 Current-loading Capacity				短路电流 Short Circuit Current		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Cu	铜Cu	铝Al	铜Cu	铝Al	铜 Cu	铝 Al	铜带 Cu Tape
mm²	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	2.5	2.3	44.0	2829	2355	0.727	12.00	120	90	125	100	3.69	2.42	2.958
35	2.5	2.3	46.0	3301	2638	0.524	0.868	140	110	155	120	5.15	3.37	2.958
50	2.5	2.4	49.0	3855	3908	0.387	0.641	165	130	180	140	7.31	4.79	2.958
70	2.5	2.5	53.0	4845	3519	0.268	0.443	210	165	220	170	10.2	6.68	2.958
95	2.5	2.7	57.0	5797	3998	0.193	0.320	355	200	265	210	13.8	9.03	2.958
120	2.5	2.8	60.0	6735	4462	0.153	0.253	290	225	300	235	17.4	11.4	2.958
150	2.5	2.9	64.0	7924	5083	0.124	0.206	330	255	340	360	21.7	14.2	2.958
185	2.5	3.0	68.0	9216	5712	0.0991	0.164	375	295	380	300	26.7	17.5	2.958
240	2.5	3.2	74.0	11236	6690	0.0754	0.125	435	345	435	345	34.6	22.6	30.31
300	2.5	3.5	81.0	14437	8755	0.0601	0.100	495	390	485	390	43.1	28.2	3.031

注：细钢丝铠装结构，电缆近似外径在此基础上增加 3~5mm。

Remarks: The approximate outer diameter of the cable with thin steel wire armor should be larger by 3~5mm on the basis.



6/6kV 6/10kV 三芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆

6/6kV 6/10kV 3 cores,XLPE insulation, steel tape armored,PVC sheath power cable

YJV22、YJLV22(3 芯 3 cores)

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 20℃D.C.Conductor Resistance		电缆载流量 Current-loading Capacity				短路电流 Short Circuit Current		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm²	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	3.4	2.4	48.0	3190	2716	0.727	1.200	120	90	125	100	3.69	2.42	2.958
35	3.4	2.5	50.0	3731	3086	0.524	0.868	140	110	155	120	5.15	3.37	2.958
50	3.4	2.6	53.0	4396	3449	0.387	0.641	165	130	180	140	7.31	4.79	2.958
70	3.4	2.7	57.0	5198	3872	0.268	0.443	210	165	220	170	10.2	6.68	2.958
95	3.4	2.9	62.0	6350	4551	0.193	0.320	255	200	265	210	13.8	9.03	2.958
120	3.4	3.0	65.0	7257	4984	0.153	0.253	290	225	300	235	17.4	11.4	2.958
150	3.4	3.1	69.0	8383	5542	0.124	0.206	330	255	340	360	21.7	14.2	2.958
185	3.4	3.2	72.0	9741	6237	0.0991	0.164	375	295	380	300	26.7	17.5	2.958
240	3.4	3.3	78.0	11854	7039	0.0754	0.125	435	345	435	345	34.6	22.6	3.031
300	3.4	3.4	84.0	14861	9178	0.0601	0.100	495	390	485	390	43.1	28.2	3.031

注：细钢丝铠装结构，电缆近似外径在此基础上增加 3~5mm。

Remarks: The approximate outer diameter of the cable with thin steel wire armor should be larger by 3~5mm on the basis.

8.7/10kV 8.7/15kV 三芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆

8.7/10kV 8.7/15kV 3 cores,XLPE insulation, steel tape armored,PVC sheath power cable

YJV22、YJLV22(3 芯 3 cores)

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 20℃D.C.Conductor Resistance		电缆载流量 Current-loading Capacity				短路电流 Short Circuit Current		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm²	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	4.5	2.6	53.0	3796	3323	0.727	1.200	120	90	125	100	3.69	2.42	2.958
35	4.5	2.6	56.0	4252	3589	0.524	0.868	140	110	155	120	5.15	3.37	2.958
50	4.5	2.8	59.0	4829	3881	0.387	0.641	165	130	180	140	7.31	4.79	2.958
70	4.5	2.9	63.0	5834	4508	0.268	0.443	210	165	220	170	10.2	6.68	2.958
95	4.5	3.0	67.0	6885	5085	0.193	0.320	355	200	265	210	13.8	9.03	2.958
120	4.5	3.1	70.0	7807	5534	0.153	0.253	290	225	300	235	17.4	11.4	2.958
150	4.5	3.2	74.0	8995	6154	0.124	0.206	330	255	340	360	21.7	14.2	3.031
185	4.5	3.3	78.0	10493	6989	0.0991	0.164	375	295	380	300	26.7	17.5	3.031
240	4.5	3.6	84.0	13381	8835	0.0754	0.125	435	345	435	345	34.6	22.6	3.031
300	4.5	3.7	89.0	15564	9881	0.0601	0.100	495	390	485	390	43.1	28.2	3.031

注：细钢丝铠装结构，电缆近似外径在此基础上增加 3~5mm。

Remarks:The approximate outer diameter of the cable with thin steel wire armor should be larger by 3~5mm on the basis.

YJV22、YJLV22 (3芯 3 cores)

导体标称截面 Nominal Cross Section Area	绝缘厚度 Insulation Thickness	护套厚度 Sheath Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		20℃导体直流电阻 20℃D.C.Conductor Resistance		电缆载流量 Current-loading Capacity				短路电流(1 秒) Short Circuit Current(1s)		
								在空气中 in the air		直埋土壤中 to be laid underground		导体 Conductor		屏蔽层 Shielding Layer
				铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜带 Cu Tape
mm^2	mm	mm	mm	kg/km	kg/km	Ω /km	Ω /km	A	A	A	A	kA	kA	kA
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35	5.5	2.8	60.0	4659	3997	0.524	0.868	140	110	155	120	5.15	3.37	2.958
50	5.5	2.9	63.0	5430	4482	0.387	0.641	165	130	180	140	7.31	4.79	2.958
70	5.5	3.0	68.0	6327	5001	0.268	0.443	210	165	220	170	10.2	6.68	2.958
95	5.5	3.2	72.0	7446	5646	0.193	0.320	355	200	265	210	13.8	9.03	3.031
120	5.5	3.3	75.0	8382	6109	0.153	0.253	290	225	300	235	17.4	11.4	3.031
150	5.5	3.4	79.0	7906	6865	0.124	0.206	330	255	340	360	21.7	14.2	3.031
185	5.5	3.5	83.0	11954	8450	0.0991	0.164	375	295	380	300	26.7	17.5	3.031
240	5.5	3.7	89.0	14027	9481	0.0754	0.125	435	345	435	345	34.6	22.6	3.031
300	5.5	3.9	94.0	16437	10755	0.0601	0.100	495	390	485	390	43.1	28.2	3.031

注：细钢丝铠装结构，电缆近似外径在此基础上增加 3~5mm。

Remarks:The approximate outer diameter of the cable with thin steel wire armor should be larger by 3~5mm on the basis.

交货要求

电缆交货长度不小于 100m，允许长度不小于 30m 的短电缆交货，其数量不应超过交货总长度的 10%;根据双方协议允许任何长度的电缆交货。长度计量误差为 ± 0.5%。

Cable Length

It should be generally no shorter than 100 meters per piece. The cable no shorter than 30 meters is allowed for delivery, which accounts for no more than 10% of the total. It depends on final both agreements with length error of no more than ± 0.5%.



0.6/1kV 聚氯乙烯绝缘电力电缆

0.6/1kV PVC Insulation Power Cable

本产品适用于交流额定电压0.6/1kV的线路中，供输、配电能用。

It is used to transmit and distribute power on the power line of A.C.rated voltage 0.6/1kV.

生产执行标准

GB/T12706.1等同采用国际电工委员会IEC60502。

Executive standard :
GB/T12706.1(equal to IEC60502)

使用特点

1.电缆导体长期允许工作温度不超过70℃;
2.短路时（最长持续时间不超过5秒），电缆导体的最高温度不超过160℃;
3.敷设电缆时的环境温度应不低于0℃。

Working Conditions

1.Long-term working temperature of the cable should be no higher than 70℃ .
2.The conductor tempeature should be no higher than 160℃ at time of short circuit (It lasts no more than 5 minutes).
3.Environment temperature should be no lower than 0℃ for laying the cable .

电缆的型号、名称及适用场合

Type ,Description &Application Occasion

型 号 Type		名 称 Description	适用场合 Application Occasion
铜 Cu	铝 Al		
VV	VLV	聚氯乙烯绝缘聚氯乙烯护套电力电缆 PVC insulation & sheath power cable	敷设在室内、隧道、电缆沟及管道中，电缆不能承受机械外力作用。 to be laid indoors, in tunnel, cable furrow, or pipe, the cable couldn't bear mechanical force outside.
VV22	VLV22	聚氯乙烯绝缘聚氯乙烯护套钢带铠装电力电缆 PVC insulation, steel tape armor, PVC sheath power cable	敷设在地下，电缆能承受一定机械外力作用，但不能承受大的拉力。 to be laid underground , the cable could bear certain mechanical force , but it couldn' t bear great pulling force.

注:本公司另可根据用户的需要提供阻然型、耐火型电力电缆产品，订货时在原型号前加“ZR”表示阻燃型，加“NH”表示耐火型。

Remarks: We aslo produce flame-retardant type and fire-resistant type power cables. Prefix 'ZR' means flame-retardant type,'NH'means fire-resistant type.

型号、芯数、标称截面

型 号 Type		芯 数 Core Number	标称截面（mm²） Nominal Cross-section Area
铜 Cu	铝 Al		
VV -- VV22	-- VLV VLV22	1	1.5~400 2.5~400 10~400
VV -- VV22	-- VLV VLV22	2	1.5~185 2.5~185 4~185
VV -- VV22	-- VLV VLV22	3	1.5~300 2.5~300 4~300
VV VV22	VLV VLV22	4	4~185 4~185
VV VV22	VLV VLV22	3+1	4~240 4~185

注:本公司也可根据用户需要，提供五芯结构电缆产品

Remarks:We also produce 5-core cable as user' s demand.

导电线芯直流电阻 D.C. Conductor Resistance

标称截面 Nominal Cross-section Area (mm^2)	20℃直流电阻 ⩽Ω /km D.C.Resistance at 20℃ ⩽Ω/km		标称截面 Nominal Cross-section Area (mm^2)	20℃直流电阻 ⩽Ω /km D.C.Resistance at 20℃ ⩽Ω/km	
	铜 Cu	铝 Al		铜 Cu	铝 Al
1.5	12.1	--	70	0.268	0.443
2.5	7.41	12.1	95	0.193	0.320
4	4.61	7.41	120	0.153	0.253
6	3.08	4.61	150	0.124	0.206
10	1.83	3.08	185	0.0991	0.164
16	1.15	1.91	240	0.0754	0.125
25	0.727	1.20	300	0.0601	0.100
35	0.524	0.868	400	0.0470	0.0778
50	0.387	0.641	--	--	--

电缆近似外径及近似重量

Approximate Cable Outer Diameter & Weight

单芯聚氯乙烯绝缘及护套电力电缆（0.6/1kV）

Single core, PVC insulation & sheath power cable(0.6/1kV)

芯数×标称截面 Core No x Nominal Cross Section Area (mm^2)	非铠装电缆 Non-armored Cable			钢带铠装电缆 Steel Tape-armored Cable		
	电缆近似外径 Approximate Cable Outer Diameter(mm)	电缆近似重量 (kg/km) Approximate Cable Weight		电缆近似外径 Approximate Cable Outer Diameter (mm)	电缆近似重量 Approximate Cable Weight (kg/km)	
		VV	VLV		VV22	VLV22
1 × 1.5	6.1	50	--	--	--	--
1 × 2.5	6.5	62	47	--	--	--
1 × 4	7.4	87	63	--	--	--
1 × 6	8.0	110	75	--	--	--
1 × 10	9.4	166	96	13.3	346	270
1 × 16	10.4	234	133	14.5	432	331
1 × 25	12.1	345	186	16.4	574	414
1 × 35	13.2	450	229	17.4	692	475
1 × 50	14.7	585	276	18.5	863	553
1 × 70	16.5	800	366	20.3	1133	700
1 × 95	18.9	1065	475	22.5	1432	844
1 × 120	20.2	1328	586	24.0	1705	962
1 × 150	21.4	1600	702	25.7	2044	1120
1 × 185	24.3	1990	850	28.0	2438	1296
1 × 240	27.1	2546	1060	32.0	3057	1570
1 × 300	29.8	3140	1292	35.0	3926	2070
1 × 400	33.0	4127	1651	38.8	5084	2608



两芯聚氯乙烯绝缘及护套电力电缆（0.6/1kV）

2 cores, PVC insulation & sheath power cable(0.6/1kV)

芯数×标称截面 Core No x Nominal Cross Section Area (mm^2)	非铠装电缆 Non-armored Cable			钢带铠装电缆 Steel Tape-armored Cable		
	电缆近似外径 Approximate Cable Outer Diameter(mm)	电缆近似重量 (kg/km) Approximate Cable Weight		电缆近似外径 Approximate Cable Outer Diameter (mm)	电缆近似重量 Approximate Cable Weight (kg/km)	
		VV	VLV		VV22	VLV22
2 × 1.5	10.4	118	--	--	--	--
2 × 2.5	11.3	151	118	--	--	--
2 × 4	13.0	210	159	16.6	424	374
2 × 6	14.1	263	192	17.7	494	425
2 × 10	16.8	394	242	20.3	665	497
2 × 16	18.8	541	334	22.4	845	638
2 × 25	22.3	794	468	25.9	1154	827
2 × 35	24.5	1037	585	28.5	1436	982
2 × 50	20.6	1236	592	24.2	1580	940
2 × 70	22.7	1647	745	26.5	2210	1302
2 × 95	25.8	2189	966	30.0	2800	1530
2 × 120	28.5	2640	1144	34.0	3400	850
2 × 150	32.0	3280	1410	37.2	4150	2198
2 × 185	35.4	4006	1703	41.3	5025	2592

三芯聚氯乙烯绝缘及护套电力电缆（0.6/1kV）

3 cores, PVC insulation & sheath power cable(0.6/1kV)

芯数×标称截面 Core No x Nominal Cross Section Area (mm^2)	非铠装电缆 Non-armored Cable			钢带铠装电缆 Steel Tape-armored Cable		
	电缆近似外径 Approximate Cable Outer Diameter(mm)	电缆近似重量 (kg/km) Approximate Cable Weight		电缆近似外径 Approximate Cable Outer Diameter (mm)	电缆近似重量 Approximate Cable Weight (kg/km)	
		VV	VLV		VV22	VLV22
3 × 1.5	10.9	142	--	--	--	--
3 × 2.5	11.9	187	139	--	--	--
3 × 4	13.7	264	189	17.3	489	413
3 × 6	14.8	335	226	18.5	578	472
3 × 10	17.6	514	290	21.4	801	560
3 × 16	19.9	729	418	23.6	1058	743
3 × 25	23.7	1085	596	27.5	1470	979
3 × 35	26.2	1430	748	30.5	2148	1370
3 × 50	26.5	1820	839	31.5	2457	1489
3 × 70	29.1	3982	1080	34.7	3122	1768
3 × 95	33.6	950	1418	38.4	4055	2218
3 × 120	37.0	3982	1747	41.5	4925	2606
3 × 150	40.7	4950	2135	46.8	6050	3154
3 × 185	45.0	6156	2610	50.9	7299	3721
3 × 240	50.6	7886	3308	56.5	9223	4584
3 × 300	55.0	9647	4059	61.7	11022	5423

四芯聚氯乙烯绝缘及护套电力电缆（0.6/1kV）

4 cores, PVC insulation & sheath power cable(0.6/1kV)

芯数×标称截面 Core No x Nominal Cross Section Area (mm^2)	非铠装电缆 Non-armored Cable			钢带铠装电缆 Steel Tape-armored Cable		
	电缆近似外径 Approximate Cable Outer Diameter(mm)	电缆近似重量 (kg/km) Approximate Cable Weight		电缆近似外径 Approximate Cable Outer Diameter (mm)	电缆近似重量 Approximate Cable Weight (kg/km)	
		VV	VLV		VV22	VLV22
4 × 4	15.0	332	231	18.8	581	480
4 × 6	16.2	430	270	20.4	703	551
4 × 10	19.7	641	393	23.2	891	637
4 × 16	22.0	902	499	26.0	1175	771
4 × 25	26.5	1438	766	30.5	1998	1347
4 × 35	29.7	1815	919	34.8	2585	1660
4 × 50	30.4	2380	1091	35.0	3100	1819
4 × 70	33.8	3202	1398	38.9	4039	2228
4 × 95	38.8	4300	1860	44.0	5200	2800
4 × 120	42.5	5269	2186	48.7	6400	3320
4 × 150	46.7	6554	2748	52.8	7806	3958
4 × 185	51.9	8090	3365	57.9	9442	4700

(3+1)**芯聚氯乙烯绝缘及护套电力电缆**（0.6/1kV）

(3+1) cores, PVC insulation & sheath power cable(0.6/1kV)

芯数×标称截面 Core No x Nominal Cross Section Area (mm^2)	非铠装电缆 Non-armored Cable			钢带铠装电缆 Steel Tape-armored Cable		
	电缆近似外径 Approximate Cable Outer Diameter(mm)	电缆近似重量 (kg/km) Approximate Cable Weight		电缆近似外径 Approximate Cable Outer Diameter (mm)	电缆近似重量 Approximate Cable Weight (kg/km)	
		VV	VLV		VV22	VLV22
3 × 4+1 × 2.5	14.5	310	215	18.1	543	447
3 × 6+1 × 4	16.1	403	268	19.7	661	526
3 × 10+1 × 6	8.9	600	363	22.6	894	625
3 × 16+1 × 10	21.6	858	505	25.4	1195	807
3 × 25+1 × 16	25.5	1315	693	29.0	1679	1082
3 × 35+1 × 16	27.6	1645	834	31.7	2243	1458
3 × 50+1 × 25	30.4	2124	996	35.4	2867	1736
3 × 70+1 × 35	34.2	2867	1285	39.3	3698	2099
3 × 95+1 × 50	39.2	3824	1664	44.3	4796	2636
3 × 120+1 × 70	42.5	4784	2060	48.8	5900	3129
3 × 150+1 × 70	46.0	5790	2473	51.0	6921	3623
3 × 185+1 × 95	51.6	7164	3050	57.5	8437	4369
3 × 240+1 × 120	57.8	9414	3842	64.0	11163	5586
3 × 300+1 × 150	63.0	11749	4920	70	13465	6445

电缆载流量（0.6/1kV）

0.6/1kV 聚氯乙烯绝缘及护套铠装电力电缆在空气中和地下敷设长期连续负荷载流量:

①.适用电缆型号: VV22 、 VLV22;

②.导电线芯最高允许工作温度: 70℃，周围环境温度: 30℃;

③.土壤温度25℃，土壤热阻系数: 1.2℃.m/w，其载流量如下表

Current-loading Capacity (0.6/1kv)

Long-term and continual current-loading capacity of 0.6/1kV PVC insulation & sheath, armored power cable in the air or underground:

1. Cable Type:VV22、VLV22;
2. The highest temperature allowed of conductor:70℃; Environment Temperature:30℃;
3. Soil Temperature:25℃,Soil Heat-resistant Coeffcient:1.2℃.m/w



截面 Cross Section Area (mm^2)	长期连续负荷允许载流量 Long-term and Continual Current-loading Capacity （A）															
	在空气中 in the air								在地下 underground							
	一芯 Single core		二芯 2 cores		三芯 3 cores		四芯及 3+1 芯 4 cores & (3+1) cores		一芯 Single core		二芯 2 cores		三芯 3 cores		四芯及 3+1 芯 4 cores & (3+1) cores	
	铜芯 Cu	铝芯 Al	铜芯 Cu	铝芯 Al	铜芯 Cu	铝芯 Al	铜芯 Cu	铝芯 Al	铜芯 Cu	铝芯 Al	铜芯 Cu	铝芯 Al	铜芯 Cu	铝芯 Al	铜芯 Cu	铝芯 Al
4			37	29	32	24	29	23			45	35	38	29	36	27
6			48	37	40	32	39	29			56	43	47	37	46	36
10	82	64	67	52	57	45	52	40	101	78	77	59	65	50	61	47
16	111	85	91	70	77	60	70	54	132	104	102	79	87	66	81	62
25	143	111	122	92	102	80	94	73	175	132	125	97	109	84	106	82
35	175	138	143	111	122	95	119	92	212	164	148	115	130	100	134	103
50	223	175	180	138	154	122	149	115	260	201	181	140	160	123	163	125
70	276	212	217	170	191	148	184	141	307	238	220	170	195	150	196	151
95	334	260			233	180	226	174	371	286			229	176	234	181
120	387	297			270	207	260	201	424	339			262	201	267	206
150	445	345			313	244	301	231	483	375			299	229	301	231
185	509	398			360	281	345	266	541	419			334	257	338	261
240	615	477			424	334			636	493			386	298		
300	700	541			477	371			721	557			445	350		
400	832	641							828	647						

注: V V 型、VLV 型电缆载流量可参考上表数据

Remarks:PLease make reference to the form above for current-loading capacity of VV & VLV type cable.

交货长度

按合同要求长度交货，长度计量误差为 ± 0.5%。

Cable Length

It depends on final both agreements with length error allowance no more than ± 0.5%.

额定电压 10kV 及以下架空绝缘电缆

Rated Voltage 10kV or Lower Aerial Insulation Cable

该产品由紧压铜、铝（铝合金）导体，内屏蔽层和耐侯型绝缘材料及外屏蔽层组成，既具有电力电缆的输送电能特性又具有架空电缆较强的机械性能；与裸电线相比，本产品具有敷设间距小，安全可靠性高，耐大气老化性能优良等特点，是新设计建设的10kV及以下输电工程线路优先选用及线路维护与安全最合适的产品。

It consists of copper or aluminum(AL alloy) conductor,inner shielding layer,weather-proof insulation material and outer shielding layer.It has not only power-transmitting character of power cable,but strong mechanical character of aerial cable as well.In comparison with bare wire,it boasts many advantages such as small span in laying the cable,high reliability and safety ,and good aging-resistant character.It is the first priority of newly designed and built power-transmitting project of 10kV or lower.

生产执行标准

1kV架空绝缘电缆：GB12527-90参照采用国际电工委员会IEC60502、IEC227;
10kV架空绝缘电缆：GB14049-93

Executive Standard:

1kV Aerial Insulation Cable:GB12527-90 (with reference to IEC 60502, IEC227);
10kV Aerial Insulation Cable:GB14049-93

使用特点

1.额定电压：1kV、10kV;
2.电缆的长期允许工作温度：聚氯乙烯绝缘为70℃交联聚乙烯绝缘为90℃;
3.短路时（最长时间不超过5秒），电缆的最高温度:聚氯乙烯绝缘为160℃，高密度聚乙烯绝缘为150℃，交联聚乙烯绝缘为250℃;
4.电缆敷设时的环境温度不低于-20℃;
5.电缆的允许弯曲半径:
①．额定电压1kV以下电缆：电缆外径(D)小于25mm者，应不小于4D，电缆外径(D)为25mm及以上者，应不小于6D;
②.额定电压10kV电缆：单芯电缆 20（D+d）± 5%mm，多芯电缆15（D+d）± 5%mm。
式中:
D-- 电缆的实际外径,
d-- 电缆导体的实际外径。

Working Conditions:

1.Rated Voltage:1kV,10kV;
2.Long-term working temperature allowance of the cable: with PVC insulation:70℃;with XLPE insulation:90℃
3.The highest temperature of the cable in time of short circuit:with PVC insulation:160℃;with HDPE insulation:150℃;with XLPE insulation:250℃
4.Environment temperature should be no lower than -20℃for laying the cable.
5.Bending radius allowance of the cable:
①for cable of rated voltage under 1kV:
It should be no less than 4D for the cable with outer diameter less than 25mm;
It should be no less than 6D for the cable with outer diameter of 25mm or more .
② for cable of rated voltage 10kV:
single core cable:20(D+d) ± 5%mm;multi-core cable:15(D+d) ± 5%mm
in the formula above:
D---actual cable outer diameter;
d---actual conductor outer diameter



电缆的型号、名称及用途
Type,Description &Application:

额定电压 Rated Voltage	型 号 Type	名 称 Description	主 要 用 途 Application
1kV	JK(L)V	铜(铝)芯聚氯乙烯绝缘架空电缆 Cu (Al) conductor,PVC insulation aerial cable	架空固定敷设、引户线等 To be fixedly laid
	JK(L)Y	铜(铝)芯聚乙烯绝缘架空电缆 Cu (Al) conductor,PVC insulation aerial cable	
	JK(L)YJ	铜(铝)芯交联聚乙烯绝缘架空电缆 Cu (Al) conductor,PVC insulation aerial cable	
10kV	JK(L)YJ	铜(铝)芯交联聚乙烯绝缘架 Cu (Al) conductor,PVC insulation aerial cable	架空固定敷设、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 In fixedly laying the cable,the user must keep certain distance between cable and trees.
	JK(L)Y	铜(铝)芯聚乙烯绝缘架空电缆 Cu (Al) conductor,PVC insulation aerial cable	

注：也可按用户要求生产本色或轻型架空电缆，如JKLYJ/B、JKLYJ/Q、JKLY/Q

Remarks: We also may produce aerial cable without coloring or light type,for example:JKLYJ/B,JKLYJ/Q,JKLY/Q.

电缆的规格
Cable Specifications:

1、**额定电压** 1kV
1.Rated Voltage 1kV

型 号 Type	芯 数 Core Number	标称截面 Nominal Cross-section Area（mm²）
JKV,JKLV,JKY,JKLY,JKYJ,JKLYJ	1	16 ~ 24
	2、4	10 ~ 120
JKLV,JKLY,JKLYJ	3+K	10 ~ 120

注 K为带承载的中性导体，根据配电工程要求，任选其中截面与主线芯搭配。

Remarks:K refers to neutral conductor with sustaining.Please select different cross-section area to match with main core as the requirements of power distribution project.

2、**额定电压** 10kV
2.Rated Voltage 10kV

型 号 Type	芯 数 Core Number	标称截面 Nominal Cross-section Area（mm²）
JKYJ、JKLYJ、JKY、JKLY、	1	10 ~ 300
JKLYJ/Q、JKLY/Q、JKLYJ/B	3	25 ~ 300
	3+K（A）或 or 3+K（B）	25 ~ 300

注：其中K为承载绞线，按工程设计要求，可任选表中规定截面与相应导体截面相匹配，如杆塔跨距更大采用外加承载索时，该承载索不包括在电缆结构内；其中A表示钢承载绞线，B表示铝合金承载绞线。

Remarks:K refers to sustaining stranded wire.PLease select cross-section area in the form to match with relevant cross-section area of conductor. If the span between poles is bigger and sustaining rope must be adopted, the rope is excluded from cable structure. A refers to sustaining stranding steel wire ,B refers to sustaining stranded AL alloy wire.

电缆结构尺寸和技术参数
Structural Sizes &Technical Parameters

1kV 单芯交联聚乙烯绝缘架空电缆
1kV single core, XLPE insulation, aerial cable

导体标称截面 Nominal Cross Area	绝缘厚度 Insulation Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		电缆拉断力 Cable Splitting Force		电缆载流量 Current-loading Capacity	
									在空气中 in the air	
			铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	kg/km	kg/km	Ω/km	Ω/km	N	N	A	A
16	1.2	8.0	178	80	1.198	1.91	5486	2517	84	67
25	1.2	9.4	266	112	0.749	1.20	8465	3762	1.7	88
35	1.4	11.0	366	150	0.540	0.868	11731	5177	134	108
50	1.4	12.3	510	200	0.399	0.641	16502	7011	172	136
70	1.4	14.1	697	264	0.276	0.443	23461	1.354	207	168
95	1.6	16.5	945	358	0.199	0.320	31759	13727	257	208
120	1.6	18.1	1175	435	0.158	0.253	39911	17339	295	240
150	1.8	20.2	1470	512	0.128	0.203	49505	21033	360	276
185	2.0	22.5	1813	590	0.1021	0.164	61846	26732	412	320
240	2.2	25.6	2343	668	0.0777	0.125	79823	34679	496	384

1kV 两芯交联聚乙烯绝缘架空电缆
1kV 2 cores, XLPE insulation, aerial cable

导体标称截面 Nominal Cross-section Area	绝缘厚度 Insulation Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		电缆拉断力 Cable Splitting Force		电缆载流量 Current-loading Capacity	
									在空气中 in the air	
			铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	kg/km	kg/km	Ω/km	Ω/km	N	N	A	A
10	1.0	13.0	232	108	1.906	3.08	6594	3135	53	40
16	1.2	16.0	357	159	1.198	1.91	10423	4782	72	56
25	1.2	18.8	534	223	0.749	1.20	16083	7147	96	73
35	1.4	22.0	734	299	0.540	0.868	22288	9836	112	88
50	1.4	24.6	1021	400	0.399	0.641	31353	13320	114	112
70	1.4	28.2	1396	528	0.276	0.443	44575	19672	176	136
95	0.6	33.0	1894	715	0.199	0.320	60342	26081	216	168
120	1.6	36.2	2360	870	0.158	0.253	75830	32944	252	196

1kV 四芯交联聚乙烯绝缘架空电缆
1kV 4 cores, XLPE insulation, aerial cable

导体标称截面 Nominal Cross-section Area	绝缘厚度 Insulation Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		电缆拉断力 Cable Splitting Force		电缆载流量 Current-loading Capacity	
									在空气中 in the air	
			铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	kg/km	kg/km	Ω/km	Ω/km	N	N	A	A
10	1.0	15.7	464	216	1.906	3.08	13189	6270	42	32
16	1.2	19.3	712	320	1.198	1.91	17426	9564	59	47
25	1.2	22.7	1064	448	0.749	1.20	32167	14295	75	62
35	1.4	26.6	1464	600	0.540	0.868	44577	19672	94	77
50	1.4	29.7	2040	800	0.399	0.641	62707	26641	121	95
70	1.4	34.0	2788	1056	0.276	0.433	89151	39945	147	118
95	0.6	39.8	3780	1432	0.199	0.320	120684	52151	180	146
120	1.6	43.7	4700	1740	0.158	0.253	151661	65888	207	168



10kV 单芯交联聚乙烯绝缘(普通绝缘)架空电缆

10kV single core, XLPE insulation (normal insulation), aerial cable

导体标称截面 Nominal Cross-section Area	绝缘厚度 Insulation Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		电缆拉断力 Cable Splitting Force		电缆载流量 Current-loading Capacity 在空气中 in the air	
			铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	kg/km	kg/km	Ω/km	Ω/km	N	N	A	A
10	3.4	11.6	70	45	1.906	3.08	3471	1650	72	56
16	3.4	12.6	180	100	1.198	1.91	5486	2517	112	87
25	3.4	15.8	300	160	0.749	1.20	8465	3762	152	118
35	3.4	16.8	450	230	0.540	1.868	11731	5177	192	149
50	3.4	18.1	600	300	0.339	0.641	16502	7011	232	180
70	3.4	19.8	800	370	0.276	0.443	23461	10354	291	226
95	3.4	21.6	1010	460	0.119	0.320	31759	31727	357	276
120	3.4	23.0	1290	550	0.158	0.253	39911	17339	413	320
150	3.4	24.0	1580	650	0.128	0.260	49505	21033	473	366
185	3.4	26.2	1920	770	0.1021	0.164	61846	26732	545	423
240	3.4	28.4	2440	950	0.0777	0.125	79823	34697	647	503
300	3.4	30.6	2960	1130	0.0533	0.086	99788	43349	749	583

10kV 三芯交联聚乙烯绝缘(普通绝缘)架空电缆

10kV 3 cores, XLPE insulation (normal insulation), aerial cable

导体标称截面 Nominal Cross-section Area	绝缘厚度 Insulation Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		电缆拉断力 Cable Splitting Force		电缆载流量 Current-loading Capacity 在空气中 in the air	
			铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	kg/km	kg/km	Ω/km	Ω/km	N	N	A	A
25	3.4	34.4	600	320	0.749	1.20	24125	10720	122	95
35	3.4	36.3	900	460	0.540	0.868	33433	14754	154	119
50	3.4	39.2	1200	600	0.339	0.641	47030	19981	186	144
70	3.4	42.8	1600	740	0.276	0.443	66863	29508	233	181
95	3.4	46.5	2020	920	0.199	0.320	90513	39121	286	221
120	3.4	49.4	2580	1100	0.158	0.283	113746	49416	330	256
150	3.4	52.5	3160	1300	0.128	0.206	141089	59944	378	293
185	3.4	56.3	3840	1540	0.1021	0.164	176261	76186	436	338
240	3.4	61.2	4880	1900	0.0777	0.125	227495	98835	517	402
300	3.4	65.8	5920	2260	0.0533	0.086	284395	123544	599	466

10kV 单芯交联聚乙烯绝缘轻型(薄绝缘)架空电缆

10kV single core, XLPE insulation light type (thin insulation), aerial cable

导体标称截面 Nominal Cross-section Area	绝缘厚度 Insulation Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		电缆拉断力 Cable Splitting Force		电缆载流量 Current-loading Capacity	
									在空气中 in the air	
			铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	2.5	mm	kg/km	kg/km	Ω/km	Ω/km	N	N	A	A
10	2.5	9.8	-	40	-	3.08	-	1650	-	58
16	2.5	10.8	-	90	-	1.91	-	2517	-	89
25	2.5	13.0	-	150	-	1.20	-	3762	-	120
35	2.5	14.0	-	200	-	1.868	-	5177	-	151
50	2.5	15.3	-	250	-	0.641	-	7011	-	182
70	2.5	17.0	-	320	-	0.443	-	10354	-	228
95	2.5	18.8	-	410	-	0.320	-	31727	-	278
120	2.5	20.2	-	490	-	0.253	-	17339	-	396
150	2.5	21.8	-	660	-	0.260	-	21033	-	406
185	2.5	23.4	-	710	-	0.164	-	26732	-	425
240	2.5	25.6		880		0.125		34697		505
300	2.5	27.8		1050		0.086		43349		585

10kV 三芯交联聚乙烯绝缘轻型(薄绝缘)架空电缆

10kV 3 cores, XLPE insulation light type (thin insulation), aerial cable

导体标称截面 Nominal Cross-section Area	绝缘厚度 Insulation Thickness	电缆近似外径 Cable Outer Diameter	电缆近似重量 Approximate Cable Weight		导体直流电阻 D.C.Conductor Resistance		电缆拉断力 Cable Splitting Force		电缆载流量 Current-loading Capacity	
									在空气中 in the air	
			铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
mm^2	mm	mm	kg/km	kg/km	Ω/km	Ω/km	N	N	A	A
25	2.5	30.2		450		1.20		10720		115
35	2.5	32.3	-	600	-	0.868	-	14754	-	120
50	2.5	35.1	-	750	-	0.641	-	19981	-	146
70	2.5	38.8	-	960	-	0.443	-	29508	-	182
95	2.5	42.6	-	1230	-	0.320	-	39121	-	222
120	2.5	45.7	-	1470	-	0.283	-	49416	-	317
150	2.5	49.1	-	1800	-	0.206	-	59944	-	325
185	2.5	52.6	-	2130	-	0.164	-	76186	-	340
240	2.5	57.3	-	2460	-	0.125	-	98835	-	404
300	2.5	62.0		3150		0.086		123544		468

交货长度

电缆交货长度按双方协议规定，长度计量误差应不超过 ± 0.5%

Cable Length

It depends on final both agreements with length error allowance no more than ± 0.5%.



铝绞线及钢芯铝绞线

A.A.C.& A.C.S.R.

本产品适用于架空电力线路输送电能用。

A.A.C.&A.C.S.R. are used to transmit power for aerial power line.

生产执行标准
GB/T1179-1999 等同 IEC61089(1991)。

Executive Standard:
GB/T1179-1999, equal to IEC61089 (1991)

型号、名称
Type & Description

表1 Form 1

型 号 Type	名 称 Description
LJ	铝绞线 A.A.C.
LGJ	钢芯铝绞线 A.C.S.R.
LGJF	防腐钢芯铝绞线 Corrosion-resistant A.C.S.R.

表示方法：产品用型号、规格及本标准编号表示，例如：标称截面为 300mm² 的铝绞线，

表示为：LJ-300 GB/T1179-1999；标称截面为铝 240mm²，钢 55mm² 的钢芯铝绞线，

表示为：LGJ-240/55 GB/T1179-1999。

Type-naming method: It consists of type, specification and standard number, for example:

A.A.C.with nominal cross-section area of 300mm² is described as:LJ- 300 GB/T1179-1999;

A.C.S.R.with nominal cross-section area of 240mm² and 55mm² for aluminum and steel respectively is described as:LGJ-240/55 GB/T1179-1999.

产品的规格、结构、技术性能指标
Specification, Structure &Technical Peformance:

表2 LJ型 Form 2 LJ type

标称截面 Nominal Cross-section Area	结构 Structure 根数/单丝直径 Pieces/ Diameter	计算截面 Calculated Cross-section Area	外径 Outer Diameter	直流电阻不大于 D.C.Resistance ≤	计算拉断力 Calculated Splitting Force	计算重量 Calculated Weight	交货长度不大于 Cable Length ≤
mm²	mm	mm²	mm	Ω/km	N	kg/km	m
16	7/1.70	15.89	5.10	1.802	2840	43.5	4000
25	7/2.15	25.41	6.45	1.127	4355	69.6	3000
35	7/2.50	34.36	7.50	0.8332	5760	94.1	2000
50	7/3.00	49.48	9.00	0.5786	7930	135.5	1500
70	7/3.60	71.25	10.80	0.4018	10950	195.1	1250
95	7/4.16	95.14	12.48	0.3009	14450	260.5	1000
120	19/2.85	121.21	14.25	0.2373	19420	333.5	1500
150	19/3.15	148.08	15.75	0.1943	23310	407.4	1250
185	19/3.50	182.80	17.50	0.1574	28440	503.0	1000
210	19/3.75	209.85	18.75	0.1371	32260	577.4	1000
240	19/4.00	238.76	20.00	0.1205	36260	656.9	1000
300	37/3.20	297.57	22.40	0.09689	46850	820.4	100
400	37/3.70	397.83	25.90	0.07247	61150	1079	100
500	37/4.16	502.90	29.12	0.05733	76370	1387	1000
630	61/3.63	623.30	32.67	0.04577	91940	1744	800
800	61/4.10	805.36	36.90	0.03588	115900	2225	800

注:1N=0.102kgf

Remarks:1N=0.102kgf

表3 LGJ型 Form 3 LGJ type

标称截面 Nominal Cross-section Area	根数/单丝直径 Pieces/Diameter		计算截面 Calculated Cross section Area			外径 Outer Diameter	直流电阻 不大于 D.C. Resistance ≤	计算拉断力 Calculated Splitting Force	计算重量 Calculated Weight	交货长度 不大于 Cable LSength ≤
	铝 Al	钢 Steel	铝 Al	钢 Steel	总计 Total					
mm^2	mm	mm	mm^2	mm^2	mm^2	mm	Ω/km	N	kg/km	m
10/2	6/1.50	1/1.50	10.60	1.77	12.37	4.50	2.706	4120	42.9	3000
16/3	6/1.85	1/1.85	16.13	2.69	18.82	5.55	1.779	6130	65.2	3000
25/4	6/2.32	1/2.32	25.36	4.32	29.59	6.96	1.131	9290	102.6	3000
35/6	6/2.72	1/2.72	34.86	5.81	40.67	8.16	0.8230	12630	141.0	3000
50/8	6/3.20	1/3.20	48.25	8.04	56.29	9.60	0.5946	16870	195.1	2000
50/30	12/2.32	7/2.32	50.73	29.59	80.32	11.60	0.5692	42620	372.0	3000
70/10	6/3.80	1/3.08	68.05	11.34	79.39	11.40	0.4217	23390	275.2	2000
70/40	12/2.72	7/2.72	69.73	40.67	110.40	13.60	0.4141	58300	511.3	2000
95/15	26/2.15	7/1.67	94.39	15.33	109.72	13.61	0.3058	3500	380.8	2000
95/20	7/4.16	7/1.85	95.14	18.82	113.96	13.87	0.3019	37200	408.9	2000
95/55	12/3.20	7/3.20	96.51	56.30	152.81	16.00	1.2992	78110	707.7	2000
120/7	18/2.90	1/2.90	118.89	6.61	125.50	14.50	0.2422	27570	379.0	2000
120/20	26/2.38	7/1.85	115.67	18.82	134.49	15.07	0.2496	41000	466.8	2000
120/25	7/4.72	7/2.10	122.48	24.25	146.73	15.74	0.2345	47880	526.6	2000
120/70	12/3.60	7/3.60	122.15	71.25	193.40	18.00	0.2364	98370	895.6	2000
150/81	8/3.20	1/3.20	144.76	8.04	152.80	16.00	0.1989	32860	461.4	2000
150/20	24/2.78	7/1.85	145.68	18.82	164.50	16.67	0.1980	46630	549.4	2000
150/25	26/2.70	7/2.10	148.86	24.25	173.11	17.10	0.1939	54110	601.0	2000
150/35	30/2.50	7/2.50	147.26	34.36	181.62	17.50	0.1962	65020	676.2	2000
185/10	18/3.60	1/3.60	183.22	10.18	193.40	18.00	0.1572	40880	584.0	2000
185/25	24/3.15	7/2.10	187.04	24.25	211.29	18.90	0.1542	59420	706.1	2000
185/30	26/2.98	7/2.32	181.34	29.59	210.93	18.88	0.1592	64320	732.6	2000
185/45	30/2.80	7/2.80	184.73	43.10	227.83	19.60	0.1564	80190	848.2	2000
210/10	18/3.80	1/3.80	204.14	11.34	215.48	19.00	0.1411	45140	650.7	2000
210/25	24/3.33	7/2.22	209.02	27.10	36.12	19.98	0.1380	65990	789.1	2000
210/35	26/3.22	7/2.50	211.73	34.36	246.09	20.38	0.1363	74250	853.9	2000
210/50	30/2.98	7/2.98	209.24	48.82	258.06	20.86	0.1381	90830	960.8	2000
240/30	24/3.60	7/2.40	244.29	31.67	275.96	21.60	0.1181	75620	922.2	2000
240/40	26/3.42	7/2.66	238.85	38.90	277.75	21.66	0.1209	83370	964.3	2000
240/55	30/3.20	7/3.20	241.27	56.30	297.57	22.40	1.1198	102100	1108	2000
300/15	42/3.00	7/1.67	296.88	15.33	312.21	23.01	0.09724	68060	939.8	2000
300/20	45/2.93	7/1.95	303.42	20.91	324.33	23.43	0.09520	75680	1002	2000
300/25	48/2.85	7/2.22	306.21	27.10	333.31	23.76	0.09433	83410	1058	2000
300/40	24/3.99	7/2.66	300.09	38.90	338.99	23.94	0.09614	92220	1133	2000
350/50	26/2.83	7/2.98	299.54	48.82	348.36	24.26	0.09636	103400	1210	2000
300/70	30/3060	7/3.60	305.36	71.25	376.61	25.20	0.09463	128000	1402	2000
400/20	42/3.15	7/1.95	406.40	20.91	427.31	26.91	0.07104	88850	1286	1500
400/25	45/3.33	7/2.22	391.91	27.10	419.01	26.64	0.7370	95940	1295	1500
400/35	48/3.22	7/2.50	390.88	34.36	425.24	26.82	0.07232	123400	1511	1500
400/65	26/4.42	7/3.44	398.94	65.06	464.00	28.00	0.07236	135200	1611	1500
400/95	30/4.16	19/2.50	407.75	93.27	501.02	29.14	0.07087	171300	1860	1500
500/35	45/3.75	7/2.50	497.01	34.36	531.37	30.00	0.05812	119500	1642	1500
500/45	48/3.60	7/2.80	488.58	43.10	531.68	30.00	0.05912	128100	1688	1500
500/65	54/3.44	7/3.44	501.88	65.06	566.94	30.96	0.05760	154000	1897	1500
630/45	45/4.20	7/2.80	623.45	43.10	666.55	33.60	0.04633	14700	2060	1200
630/55	48/4.12	7/3.20	639.92	56.30	696.22	34.32	0.04514	164400	2209	1200
630/80	54/3.87	19/2.32	635.19	80.32	715.51	34.82	0.04551	192900	2338	1200
800/55	45/4.80	7/3.20	814.30	56.30	870.60	38.40	0.03547	191500	2690	1000
800/70	48/4.63	7/3.60	808.15	71.25	879.40	38.58	0.03574	207000	2791	1000
800/100	54/4.33	19/2.60	795.17	100.88	896.05	38.98	0.03635	241100	2991	1000



注LGJF 型的计算重量，应在表3规定值中增加防腐涂料的重量，其增值为:钢芯涂防腐涂料者增加 2%，内部铝钢各层间涂防腐涂料者增加5%。

Remarks:The stipulated value in Form 3 should be added with the weight of corrosionproof coating to get calculated weight of LGJF type A.C.S.R. It should be increased by 2% for that with the coating on steel wire, 5% for that with the coating on each wire.

产品检验测试标准

Testing Standard:

序号 Order No.	项目 Item	试验方法 Testing Method
1	结构尺寸 Structural Sizes	--
2	节径比 Pitch Diameter Ratio	划印法 Scoring Method
3	铝线机械性能 AL wire Mechanical Performance	GB3955
4	铝线电阻率 AL Wire Reslsiance Rated	GB3048.2
5	钢丝性能 Steel Wire Performance	GB3428
6	长度 Length	用计米器测量 With Counter

交货要求

铝绞线及钢芯铝绞线的交货长度应分别符合表 2 和表 3 的规定;

任何一根绞线交货长度的允许偏差为 ± 5%，每一合同的总交货量中，允许有 5% 不小于三分之一制造长度的短线交货;

根据双方协议，允许以任何长度的绞线交货。

Cable Length

The length of A.A.C. should meet with the stipulations in Form2 and Form3 respectively.

Length error allowance of any piece of A.A.C. or A.C.S.R. is ± 5%, 5% of shorter cable with length no less than 1/3 of the stipulated length are allowed for delivery.

It depends on final both agreements.

聚氯乙烯绝缘和护套船用电力电缆

Ship Power Cable With PVC Insulation & Sheath

本产品适用于各种河海船舶及海上石油平台等水上建筑物传输电能。

It is used to transmit power for various ships, offshore platforms and other buildings over water.

生产执行标准:
GB9331.3-88

Executive Standard:
GB9331.3-88

使用条件

1.额定电压为 0.6/1kV;

2.电缆长期允许工作温度为 60℃。敷设时电缆的最小弯曲半径不小于电缆外径的 6 倍。

Working Conditions:

1.Rated Voltage:0.6/1kV;

2.The allowed cable temperature for long-term working is 60℃. The minimum bending radius in installation should be no less than 6 times that of cable outer diameter.

型号、名称

Type &Description:

型号 Type	名称 Description	敷设要求 Demands in Installation
CVV/DA	聚氯乙烯绝缘及护套船用电力电缆，DA 型 DA type ship power cable with PVC insulation & sheath	固定敷设 to be fixedly laid
CVV80/DA	聚氯乙烯绝缘聚氯乙烯内套裸铜丝编织铠装船用电力电缆，DA 型 DA type ship power cable with PVC insulation & sheath, and braiding armor	
CVV/SA	聚氯乙烯绝缘及护套阻燃船用电力电缆，SA 型 SA type ship power cable with flame-retardant PVC insulation & sheath, and braiding armor	
CVV80/SA	聚氯乙烯绝缘聚氯乙烯内套裸铜丝编织铠装阻燃船用电力电缆，SA 型 SA type ship power cable with flame-retardantPVC insulation & sheath, and bare Cu wire braided armor	

注：还可根据用户需要生产钢丝铠装船用电力电缆，如 CVV90/DA、CVV92/DA、CVV90/SA、CVV92/SA。

Remarks:We also produce ship power cable with steel wire armor as customer's demand including CVV90/DA, CVV92/DA, CVV90/SA, CVV92/SA.

规格范围

Specification Range:

型号 Type	芯数 Cores Number	截面 (mm^2) Nominal Cross-section Area
CVV/DA、CVV80/DA CVV/SA、CVV80/SA	1 2 3 4～37	1～300 1～120 1～185 1～2.5

技术要求及规格尺寸

电缆应能经受交流电压 3.5KV 或直流电压 8.4kV，5min 耐电压试验;

电缆规格尺寸符合 GB9331.3-88 中相应数据规定。

Technical Demands & Specifications

The cable could pass voltage test of A.C.3.5KV or D.C. 8.4kV lasting 5 minutes;

Cable specification should comply with the stipulations in GB9331.3-88

交货长度

允许按双方协议长度交货。

Cable Length:

It depends on final both agreements.



硅橡胶绝缘和护套电力电缆

Power Cable with Silica Rubber Insulation & Sheath

本产品用于交流额定电压 0.6/1kV 及以下的高温范围和恶劣环境内，作电气设备电能传输线。

It is used as power transmission cable of electric equipments in bad environment or that with high temperature

生产执行标准:
采用企业标准。

Executive Standard:
as the enterprise’s standard

使用条件

电缆长期工作温度不超过 180℃，电缆敷设温度应不低于 0℃；

允许弯曲半径不小于电缆外径的 10 倍。

Working Conditions:

Cable temperature for long-term working should be no higher than 180℃, and ambient temperature in installation should be no lower than 0℃.

Allowed bending radius should be no less than 10 times of cable outer diameter.

型号、名称
Type & Description:

型号 Type	名称 Description
HGG	硅橡胶绝缘和护套电力电缆 Power cable with silica rubber insulation & sheath
HG22	硅橡胶绝缘和护套镀锌钢带铠装电力电缆 Power cable with silica rubber insulation & sheath, galvanized steel tape armor
HGP_2	硅橡胶绝缘和护套铜带屏蔽电力电缆 Power cable with silica rubber insulation & sheath, Cu tape armor

规格及技术参数
Specification & Technical Parameters:

绝缘厚度、火花试验电压，
Insulation Thickness & Spark Testing Voltage:

标称截面 （mm2） Nominal Cross Section Area	2.5、4、6、	10	16	25	35	50	70	95	120	150	185
绝缘厚度 （mm） Insulation Thickness	1.0	1.2		1.4		1.6		1.8		2.0	2.2
火花击穿电压 （V） Spark Puncture Voltage	6000	7000		8000		9000					

成品电缆导电线芯直流电阻：成品电缆导电线芯的直流电阻，换算到电缆长度为 1m，标称截面为 1mm² 和温度为 20℃时，铜芯线应不大于 0.0184Ω。

成品电缆线芯的绝缘电阻：成品电缆绝缘线芯的绝缘电阻，换算到电缆长度为 1km 和温度为 20℃时，导电线芯截面在 50 mm² 及以下的应不小于 50M Ω，70~185 mm² 的应不小于 35MW。

多芯电缆的成品电压试验应经受交流 50Hz，试验电压 3000V、5min 的试验

D.C. Conductor resistance of finished cable:That of 1 meter long finished cable with cross-section area of 1 mm² at 20℃ should be no more than 0.0184Ω

Conductor Insulation resistance of finished cable:That of 1 km long cable with cross-section area of 50 mm² or smaller at 20℃ should be no less than 50MΩ ,and it should be no less than 35MW for that with cross-section area of 70---185 mm².

Finished multi-core cable could pass A.C.50Hz,3kV voltage test Lasting 5 minutes.

电缆外径尺寸

参照VV, VV_{22}, $KVVP_2$型电缆尺寸,外径增加5%~10%。

Cable Outer Diameter

It should be increased by 5% ~ 10%,on the basis of those of VV.VV_{22},$KVVP_2$ type cables

交货长度

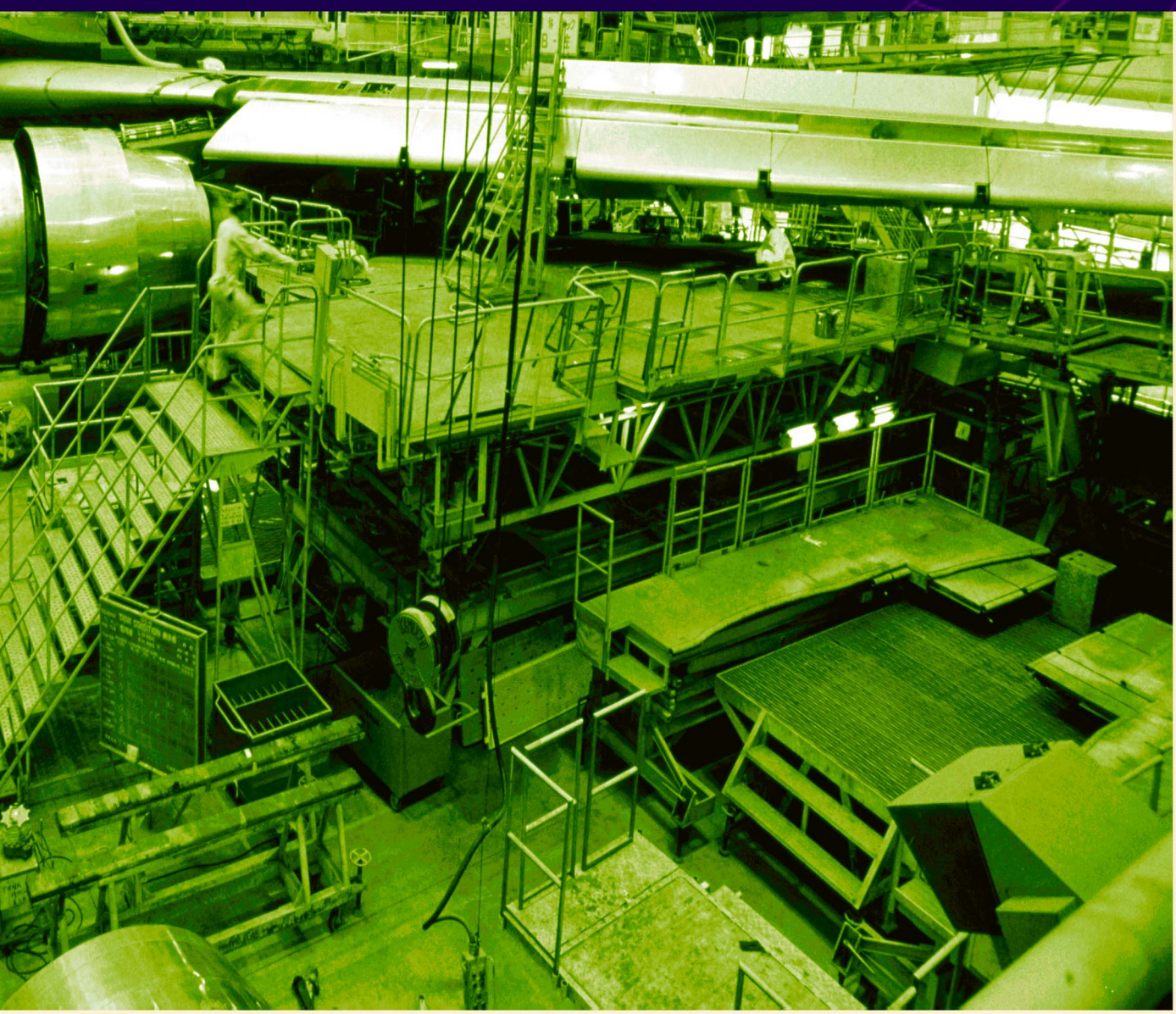
1.交货长度一般100m以上，计量误差不大于± 0.5%;
2.根据双方协议，可以定尺长度供货。

Cable Length

1.Generlly, it should be more than l00 meters with length error allowance no more than ± 0.5%.
2. It depends on final both agreements.

电气装备用电线电缆

ELECTRIC EQUIPMENTS INSTALLATION WIRES CABLES



安徽天康(集团)股份有限公司

ANHUI TIANKANG(GROUP)SHARES CO.,LTD.

聚氯乙烯绝缘电缆(电线)

PVC Insulation Cable (Wire)

该类产品中B系列产品适用于交流额定电压450/750V及以下的动力装置固定敷设用；R系列产品适用于交流额定电压300/500V及以下的家用电器，小型电动工具、仪器、仪表及动力照明用铜芯聚氯乙烯绝缘连接软电缆(电线)。

B series are used for fixedly laying in engine devices of A.C. rated voltage 300/500V or lower;R series of soft connection cable (wire) with Cu condnctor, PVC insulation are used for household electrical appliances,small electrical tools,instruments and engline lighting of A.C.rated voltage 450/750V or lower.

生产执行标准;
GB5023.1~7-1997
JB8734.1~5-1998 等同采用IEC227.

Executive Standard
GB5023.1~7-1997
JB8734.1~5-1998 (equal to IEC227).

型号名称及相应执行标准　　Type,Description & Executive Standard

型号 Type	名称 Description	芯数 Core No.	生产范围 Production Range(mm^2)	额定电压 Range Voltage(v)	执行标准 Executive Standard
227IEC01 (BV)	一般用途单芯硬导体无护套电缆 General-purpose cable with single core of hard conductor and without sheath	1	1.5～400	450/750	GB5023.3
227IEC02 (RV)	一般用途单芯软导体无护套电缆 General-purpose cable with single core of soft conductor and without sheath	1	1.5～240	450/750	
227IEC05 (BV)	内部布线用导体温度为70℃的单芯实心导体无护套电缆 Inner wiring purpose cable wiht single core of solid conductor and without sheath, 70 ℃for conductor temperature	1	0.5～1.0	300/500	
227IEC06 (RV)	内部布线用导体温度为70℃的单芯软导体无护套电缆 Inner wiring purpose cable with single core of soft conductor and without sheath, 70℃ for conductor temperature	1	0.5～1.0	300/500	
227IEC07 (BV-90)	内部布线用导体温度为90℃的单芯实心导体无护套电缆 Inner wiring purpose cable with single core of solid conductor and without sheath, 90℃ for conductor temperature	1	0.5～2.5	300/500	
227IEC08 (RV-90)	内部布线用导体温度为90℃的单芯软导体无护套电缆 Inner wiring purpose cable with single core of soft conductor and without sheath, 90℃ for conductor temperature	1	0.5～2.5	300/500	
227IEC10 (BVV)	轻型聚氯乙烯护套电缆 Light type PVC sheathed cable	2～5	1.5～35	300/500	GB5023.4
227IEC52 (RVV)	轻型聚氯乙烯护套软线 Light type PVC sheathed soft wire	2、3	0.5、0.75	300/300	GB5023.5
227IEC53 (RVV)	普通聚氯乙烯护套软线 General PVC sheathed soft wire	2～5	0.75～2.5	300/500	
BV	铜芯聚氯乙烯绝缘电线 Cu core, PVC insulated wire	1	0.75、1.0	300/500	JB8734.2
BLV	铝芯聚氯乙烯绝缘电缆 Al core, PVC insulated cable	1	2.5～400	450/750	



型号 Type	名称 Description	芯数 Core No.	生产范围 Production Range(mm^2)	额定电压 Range Voltage(v)	执行标准 Executive Standard
BVR	铜芯聚氯乙烯绝缘软电缆 Cu core, PVC insulated soft cable	1	2.5～70	450/750	JB8734.2
BVV	铜芯聚氯乙烯绝缘护套圆型电缆 Cu core, PVC insulated & sheathed circular cable	1	0.75～10	300/500	
BLVV	铝芯聚氯乙烯绝缘护套圆型电缆 Al core, PVC insulated & sheathed circular cable	1	2.5～10	300/500	
BVVB	铜芯聚氯乙烯绝缘护套扁形电缆 Cu core, PVC insulated & sheathed flat cable	2、3	0.75～10	300/500	
BLVVB	铝芯聚氯乙烯绝缘护套扁形电缆 Al core, PVC insulated & sheathed flat cable	2、3	2.5～10	300/500	
RVVP	铜芯聚氯乙烯绝缘屏蔽聚氯乙烯护套软电缆 Cu core, PVC insulation & sheath, shielded soft cable	1～24	0.3～2.5	300/300	JB8734.5

使用条件

正常使用温度时：BV-90、RV-90 型导体最高温度为 90℃，其它型号为 70℃。

Working Conditions:

The long-term working temperature of BV-90,RV-90 type cable should be no higher than 90℃, and that of other type cable should be no higher than 70℃.

规格结构及技术参数

符合 GB5023-1997 和 JB8734-1998 规格数据表

Specifications & Technical Parameters:

as the stipulations in GB5023-1997 & JB8734-1998

交货长度

根据双方协议允许任何长度交货，长度计量误差为 ± 0.5%。

Cable Length:

It depends on final both agreements with length error allowance no more than ± 0.5%.

通用橡套软电缆

General-purpose Soft Rubber Sheath Cable

本产品适用于交流额定电压 450/750V 及以下家用电器，电动工具和各种移动电气设备。

It is used for household electrical appliances,electrical tools and various mobile electrical equipments of A.C.rated voltage 450/750V or lower.

生产执行标准
JB8735.2-1998。

Executive Standard
JB8735.2-1998.

使用特性

1.额定电压 300/500V(YZ 型), 450/750V(YC)型;
2.线芯的长期允许工作温度应不超过 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。

Working Conditions:

1.Rated voltage 300/500V(YZ type),450/750V(YC type);
2.The long-term working temperature of conductor should be no higher than 65℃.
3.“W” type cables have weather-proof character andcertain grease-proof character and are suitable for outdoor usage and the occasion with greasy dirt.
4.“ZR” type cables have fire-retardant character.

型号、名称及主要用途 Type, Description & Application:

型号 Type	名称 Description	主要用途 Application
YQ，YQW	轻型橡套软电缆 Light type soft rubber sheath cable	用于轻型移动电气设备和工具 For light type mobile electric devices and tools
YZ，YZW	中型橡套软电缆 General type soft rubber sheath cable	用于各种移动电气设备和工具 For various mobile electric devices and tools
YC，YCW	重型橡套软电缆 Heavy type soft rubber sheath cable	用于各种移动电气设备，能承受较大的机械外力的作用 For various mobile electic devices, it could bear strong mechanical force from outside

规格范围: Specification Range:

型 号 Type	额定电压 (V) Rated Voltage	芯 数 Core Number	标称截面 (mm^2) Nominal Cross-section Area
YQ,YQW	300/300	2,3	0.3~0.5
YZ,YZW	300/500	2,3,4,5 3+1	1.5~6
YC	450/750	1	1.5~240
		2	1.5~95
		3,4	1.5~150
		5	1.5~25
YCW	450/750	2	35~95
		3	120~150
		3+1	2.5~150

规格尺寸及技术参数: Specification & Technical Parameters:

YQ，YQW型300/300V　　YQ,YQW types 300/300V

标称截面(mm^2) Nominal Cross-section Area	导体结构 Conductor Structure 根/单线直径 (mm) Pieces/Diameter	20℃时导体电阻≤(Ω/km) Conductor Resistance at 20℃≤	电缆外径参考 (mm) Cable Outer Diameter	
			2芯 2cores	3芯 3cores
0.3	16/0.15	69.2	6.6	7.0
0.5	28/0.15	39.0	7.2	7.6



YZ,YZW型 300/500V
YZ,YZW types 300/500V

标称截面(mm^2) Nominal Cross-section Area	导体结构 Conductor Structure 根 / 单线直径 Pieces/Diameter (mm)	20℃时导体电阻≤ Conductor Resistance at 20℃≤ (Ω/km)	电缆外径参考 (mm) Cable Outer Diameter				
			2芯 2cores	3芯 3cores	4芯 4cores	5芯 5cores	(3+1)芯 (3+1)cores
1.5	30/0.25	13.3	--	--	--	--	11.2
2.5	49/0.25	7.98	--	--	--	--	13.3
4	56/0.30	4.95	13.7	14.5	16.2	18.0	15.7
6	84/0.30	3.30	15.1	16.1	17.9	20.0	17.5

YC,YCW型 450/750V
YC,YCW types 450/750V

标称截面(mm^2) Nominal Cross-section Area	导体结构 Conductor Structure 根 / 单线直径 Pieces/Diameter (mm)	20℃时导体电阻≤ Conductor Resistance at 20℃≤ (Ω/km)	电缆外径参考 (mm) Cable Outer Diameter					
			1芯 2core	2芯 2cores	3芯 3cores	4芯 4cores	5芯 5cores	(3+1)芯 (3+1)cores
1.5	30/0.25	13.3	7.1	11.0	11.9	13.1	14.4	--
2.5	49/0.25	7.98	8.0	13.1	14.0	15.5	17.0	15.2
4	56/0.30	4.95	9.0	15.1	16.2	18.0	19.9	17.5
6	84/0.30	3.30	9.8	16.8	18.0	20.0	22.2	19.4
10	84/0.40	1.91	11.9	22.6	24.2	26.5	29.1	24.6
16	126/0.40	1.21	13.4	25.7	27.6	30.1	33.3	28.3
25	196/0.40	0.780	15.8	30.7	33.0	36.6	40.4	34.4
35	276/0.40	0.554	17.9	34.6	37.1	41.1	--	37.3
50	396/0.40	0.386	20.6	40.1	42.9	47.5	--	44.7
70	360/0.50	0.272	23.3	45.1	48.3	54.0	--	49.8
95	475/0.50	0.206	26.0	51.0	54.0	61.0	--	55.0
120	608/0.50	0.161	28.5	--	60.0	66.0	--	59.0
150	756/0.50	0.129	31.4	--	66.0	73.0	--	64.5
185	925/0.50	0.106	34.5	--	--	--	--	--
240	1221/0.50	0.0801	38.3	--	--	--	--	--

交货要求

1.成圈 100m,成盘应大于 100m;

2.短段电缆不小于 10m，短段电缆的交货数量应不超过交货总长度 10%，且每个包装件应不超过五段;

3.根据双方协议允许任何长度的电缆交货，长度误差为 ± 0.5%;

4. 用户对产品有阻燃特性要求,在合同中需另补充协议。

Cable Length:

1.The length of the cable in coil should be 100 m, and that ondrum should be more than 100 m.

2.The length of pieces of shorter cable (no shorter than 10m each) should be no more than 10% of the total length ,ackage.

3. It depends on final both agreements with length errorallowance no more than ± 0.5%.

4.The additional agreements should be added for the user's demand on flame-retardant performance.

聚氯乙烯绝缘和护套控制电缆

PVC Insulation & Sheath Control Cable

本产品适用于交流额定电压450/750V及以下控制，监控回路及保护线路等场合使用。

It is used for supervision & control return circuit and protection circuit of A.C.rated voltage 450/750V or lower.

生产执行标准:
GB9330-88。

Executive Standard:
GB9330-88

电缆型号组合结构及表示的电缆名称和主要使用范围

Type,Description & Application Occasion:

型号 Type	名称 Description	主要使用范围 Application Range
KVV	铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆 Control cable with Cu core, PVC insulation & sheath	敷设在室内、电缆沟、管道固定场合 to be fixedly laid indoor, in cable furrow, pipe
KVVP	铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆 Control cable with Cu core, PVC insulation & sheath, and braiding shield	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 to be fixedly laid indoor, in cable furrow, pipe or other places with demand on shielding
KVVP2	铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Control cable with Cu core, PVC insulation & sheath, and Cu tape shielding	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 to be fixedly laid indoor, in cable furrow, pipe or other places with demand on shielding
KVV22	铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Control cable with Cu core, PVC insulation & sheath, steel tape armor	敷设在室内、电缆沟、管道、直埋等能承受较大机械外力等固定场合 to be fixedly laid indoor, underground, in cable furrow, pipe, or other place with demand on enduring strong mechanical force
KVV32	铜芯聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装控制电缆 Control cable with Cu core, PVC insulation & sheath, and thin steel wire armor	敷设在室内、电缆沟、管道、竖井等能承受较大机械拉力等固定场合 to be fixedly laid indoor, in cable furrow, pipe, erecting well, or other places with demand on enduring strong mechanical force.
KVVR	铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆 Soft control cable with Cu core, PVC insulation & sheath	敷设在室内移动要求柔软等场合 to be laid indoor or other places with demand on mobility & softness
KVVRP	铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制软电缆 Soft control cable with Cu core, PVC insulation & sheath, and braiding shield	敷设在室内移动要求柔软、屏蔽等场合 to be laid indoor or other places with demand on mobility, softness and shielding

注:用户需要阻燃型产品，上述型号均可生产供货，只要在订货合同或协议中说明即可，型号前加写“ZR”, .即ZR-KVV型... ...等。

Remarks:We also produce flame-retardant type cable as user’s demand in contract or additional agreements. Code prefix “ZR” should be added, for example, ZR-KVV type, etc.

各电缆型号规格范围 Specification Range

型号 Type	额定电压 Rated Voltage (V)	导体标称截面 mm² Nominal Cross-section Area of Conductor (mm²)							
		0.5	0.75	1.0	1.5	2.5	4	6	10
		芯数 Core Number							
KVV KVVP	450/750	--	2~61				2~14		2~10
KVVP2		--	4~61				4~14		4~10
KVV22		--	7~61			4~61	4~14		4~10
KVV32		--	19~61		7~61		4~14		4~10
KVVR		4~61							
KVVRP		4~61			4~48		--		--



注：推荐的芯数系列为：2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52 和 61 芯。

Remarks: Recommended Core Numbers: 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52,61 cores

使用条件

1.额定电压 U_0/U 为 450/750V;

2.电缆导体的长期允许工作温度为 70℃;

3.电缆的敷设温度应不低于 0℃，推荐的允许弯曲半径：无铠装层的电缆，应不小于电缆外径的 6 倍；有铠装或铜带屏蔽结构的电缆，应不小于电缆外径的 12 倍；有屏蔽层结构的软电缆，应不小于电缆外径的 6 倍。

Working Conditions:

1.Rated Voltage U_0/U:450/750V;

2.Conductor temperature allowed for long-term working is 70℃.

3.Ambient temperature in installation should be no lower than 0℃, and allowed bending radius recommended are as follows:It should be no less than 6 times that of cable outer diameter for cable without armor, no less than 12 times that of cable outer diameter for cable with armor or Cu tape shielding structure, and no less than 6 times that of cable outer diameter for soft cable with shielding structure.

电缆结构及外形尺寸　Cable Structure & Specification

KVV 型 450/750V 铜芯聚氯乙烯绝缘和护套控制电缆

KVV type 450/750V Cu core, PVC insulation & sheath control cable

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)
2 × 0.75	1	8.0	0.012	4 × 1.5	2	11.5	0.010
2 × 0.75	2	8.4	0.014	4 × 2.5	1	12.0	0.010
2 × 1.0	1	8.4	0.011	4 × 2.5	2	13.0	0.009
2 × 1.0	2	8.8	0.013	4 × 4	1	14.0	0.0085
2 × 1.5	1	9.4	0.011	4 × 4	3	15.0	0.0077
2 × 1.5	2	10.0	0.010	4 × 6	1	15.0	0.0070
2 × 2.5	1	10.5	0.010	4 × 6	2	16.5	0.0065
2 × 2.5	2	11.5	0.009	4 × 10	2	20.0	0.0065
2 × 4	1	11.5	0.0085	5 × 0.75	1	9.6	0.013
2 × 4	2	12.5	0.0070	5 × 0.75	2	10.5	0.014
2 × 6	1	12.5	0.0070	5 × 1.0	1	10.0	0.011
2 × 6	2	14.0	0.0065	5 × 1.0	2	11.0	0.013
2 × 10	2	17.5	0.0065	5 × 1.5	1	11.5	0.011
3 × 0.75	1	8.4	0.012	5 × 1.5	2	12.5	0.010
3 × 0.75	2	8.8	0.014	5 × 2.5	1	14.0	0.010
3 × 1.0	1	8.8	0.011	5 × 2.5	2	14.5	0.009
3 × 1.0	2	9.2	0.013	5 × 4	1	15.0	0.0085
3 × 1.5	1	9.8	0.011	5 × 4	2	16.5	0.0077
3 × 1.5	2	10.5	0.010	5 × 6	1	16.5	0.0070
3 × 3.5	1	11.0	0.010	5 × 6	2	18.0	0.0065
3 × 2.5	2	12.0	0.009	5 × 10	2	22.5	0.0065
3 × 4	1	12.5	0.0085	7 × 0.75	1	10.5	0.012
3 × 4	2	13.5	0.0077	7 × 0.75	2	11.0	0.014
3 × 6	1	14.0	0.0070	7 × 1.0	1	11.0	0.011
3 × 6	2	15.0	0.0065	7 × 1.0	2	11.5	0.013
3 × 10	2	18.5	0.0065	7 × 1.5	1	12.5	0.011

续表

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)
4 × 0.75	1	9.0	0.012	7 × 1.5	2	13.5	0.010
4 × 0.75	2	9.6	0.014	7 × 2.5	1	15.0	0.010
4 × 1.0	1	9.4	0.011	7 × 2.5	2	16.0	0.009
4 × 1.0	2	10.0	0.013	7 × 4	1	16.5	0.0085
4 × 1.5	1	10.5	0.011	7 × 4	2	17.5	0.0077
7 × 6	1	18.0	0.0070	12 × 1.0	2	15.5	0.013
7 × 6	2	19.5	0.0065	12 × 1.5	1	16.5	0.011
7 × 10	2	24.0	0.0065	12 × 1.5	2	17.5	0.010
8 × 0.75	1	11.5	0.012	12 × 2.5	1	19.0	0.010
8 × 0.75	2	12.0	0.014	12 × 2.5	2	20.5	0.009
8 × 1.0	1	13.0	0.011	12 × 4	1	21.5	0.0085
8 × 1.0	2	13.0	0.013	12 × 4	2	23.0	0.0077
8 × 1.5	1	14.5	0.011	12 × 6	1	23.5	0.0070
8 × 1.5	2	15.5	0.010	12 × 6	2	26.0	0.0065
8 × 2.5	1	16.5	0.010	14 × 0.75	1	14.5	0.012
8 × 2.5	2	17.5	0.009	14 × 0.75	2	15.0	0.014
8 × 4	1	18.0	0.0085	14 × 1.0	1	15.0	0.011
8 × 4	2	19.5	0.0077	14 × 1.0	2	16.0	0.013
8 × 6	1	20.0	0.0070	14 × 1.5	1	17.0	0.011
8 × 6	2	22.0	0.0065	14 × 1.5	2	18.5	0.010
8 × 10	2	27.0	0.0065	14 × 2.5	1	19.5	0.010
10 × 0.75	1	13.5	0.012	14 × 2.5	2	21.5	0.009
10 × 0.75	2	13.5	0.014	14 × 4	1	23.5	0.0085
10 × 1.0	1	14.0	0.011	14 × 4	2	24.5	0.0077
10 × 1.0	2	15.0	0.013	14 × 6	1	24.5	0.0070
10 × 1.5	1	16.0	0.011	14 × 6	2	27.0	0.0065
10 × 1.5	2	17.0	0.010	16 × 0.75	1	15.0	0.012
10 × 2.5	1	18.5	0.010	16 × 0.75	2	16.0	0.014
10 × 2.5	2	19.5	0.009	16 × 1.0	1	15.5	0.011
10 × 4	1	20.5	0.0085	16 × 1.0	2	17.0	0.013
10 × 4	2	22.0	0.0077	16 × 1.5	1	18.0	0.011
10 × 6	1	22.5	0.0070	16 × 1.5	2	19.5	0.010
10 × 6	2	25.0	0.0065	16 × 2.5	1	21.0	0.010
10 × 10	2	30.5	0.0065	16 × 2.5	2	23.0	0.009
12 × 0.75	1	13.5	0.012	19 × 0.75	1	15.5	0.012
12 × 0.75	2	14.5	0.014	19 × 0.75	2	16.5	0.014
12 × 1.0	1	14.5	0.011	19 × 1.0	1	16.5	0.011
19 × 1.0	2	17.5	0.013	37 × 1.0	2	23.5	0.013
19 × 1.5	1	19.0	0.011	37 × 1.5	1	25.0	0.011
19 × 1.5	2	20.5	0.010	37 × 1.5	2	27.0	0.010
19 × 2.5	1	22.0	0.010	37 × 2.5	1	29.0	0.010
19 × 2.5	2	24.0	0.009	37 × 2.5	2	31.5	0.009
24 × 0.75	1	18.0	0.012	44 × 0.75	1	23.0	0.012
24 × 0.75	2	19.0	0.014	44 × 0.75	2	24.5	0.014
24 × 1.0	1	19.0	0.011	44 × 1.0	1	24.0	0.011
24 × 1.0	2	20.5	0.013	44 × 1.0	2	26.0	0.013
24 × 1.5	1	22.0	0.011	44 × 1.5	1	28.0	0.011
24 × 1.5	2	24.0	0.010	44 × 1.5	2	30.5	0.010



续表

芯数×标称截面 Core Number × Nominal Cross Section Area(mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)
24 × 2.5	1	25.5	0.010	44 × 2.5	1	33.5	0.010
24 × 2.5	2	28.0	0.009	44 × 2.5	2	36.0	0.009
27 × 0.75	1	18.0	0.012	48 × 0.75	1	23.0	0.012
27 × 0.75	2	19.5	0.014	48 × 0.75	2	25.0	0.014
27 × 1.0	1	19.0	0.011	48 × 1.0	1	24.5	0.011
27 × 1.0	2	20.5	0.013	48 × 1.0	2	26.5	0.013
27 × 1.5	1	22.5	0.011	48 × 1.5	1	28.5	0.011
27 × 1.5	2	24.5	0.010	48 × 1.5	2	31.0	0.010
27 × 2.5	1	26.0	0.010	48 × 2.5	1	34.0	0.010
27 × 2.5	2	28.5	0.009	48 × 2.5	2	37.0	0.009
30 × 0.75	1	19.0	0.012	52 × 0.75	1	23.5	0.012
30 × 0.75	2	20.0	0.014	52 × 0.75	2	25.0	0.014
30 × 1.0	1	20.5	0.011	52 × 1.0	1	25.0	0.011
30 × 1.0	2	22.0	0.013	52 × 1.0	2	27.0	0.013
30 × 1.5	1	23.0	0.011	52 × 1.5	1	29.0	0.011
30 × 1.5	2	25.0	0.010	52 × 1.5	2	31.5	0.010
30 × 2.5	1	27.0	0.010	52 × 2.5	1	35.0	0.010
30 × 2.5	2	29.5	0.009	52 × 2.5	2	38.0	0.009
37 × 0.75	1	20.5	0.012	61 × 0.75	1	25.0	0.013
37 × 0.75	2	22.0	0.014	61 × 0.75	2	27.0	0.014
37 × 1.0	1	21.5	0.011	61 × 1.0	1	26.5	0.011
61 × 1.0	2	28.5	0.013	61 × 2.5	1	37.5	0.010
61 × 1.5	1	31.5	0.011	61 × 2.5	2	40.5	0.009
61 × 1.5	2	347.0	0.010				

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)
2 × 0.75	2	9.8	0.014	5 × 2.5	2	16.5	0.009
2 × 1.0	2	10.5	0.013	5 × 4	2	18.0	0.0077
2 × 1.5	2	11.5	0.010	5 × 6	2	19.5	0.0065
2 × 2.5	2	12.5	0.009	5 × 10	2	24.0	0.0065
2 × 4	2	14.5	0.0077	7 × 0.75	2	12.5	0.014
2 × 6	2	16.0	0.0065	7 × 1.0	2	13.0	0.013
2 × 10	2	19.0	0.0065	7 × 1.5	2	15.0	0.010
3 × 0.75	2	10.5	0.014	7 × 2.5	2	17.5	0.009
3 × 1.0	2	10.5	0.013	7 × 4	2	19.0	0.0077
3 × 1.5	2	12.0	0.010	7 × 6	2	21.0	0.0065
3 × 2.5	2	13.5	0.009	7 × 10	2	26.9	0.0065
3 × 4	2	15.5	0.0077	8 × 0.75	2	13.5	0.014
3 × 6	2	17.0	0.0065	8 × 1.0	2	15.0	0.013
3 × 10	2	20.0	0.0065	8 × 1.5	2	17.0	0.010
4 × 0.75	2	11.0	0.014	8 × 2.5	2	19.0	0.009
4 × 1.0	2	11.5	0.013	8 × 4	2	21.5	0.0077
4 × 1.5	2	12.5	0.010	8 × 6	2	24.0	0.0065
4 × 2.5	2	15.0	0.009	8 × 10	2	29.0	0.0065
4 × 4	2	16.5	0.0077	10 × 0.75	2	16.0	0.014
4 × 6	2	18.0	0.0065	10 × 1.0	2	16.5	0.013
4 × 10	2	22.0	0.0065	10 × 1.5	2	18.5	0.010
5 × 0.75	2	11.5	0.014	10 × 2.5	2	21.5	0.009
5 × 1.0	2	12.0	0.013	10 × 4	2	24.0	0.0077
5 × 1.5	2	13.5	0.010	10 × 6	2	27.0	0.0065
10 × 10	2	32.5	0.0065	27 × 1.5	2	20.0	0.010
12 × 0.75	2	16.0	0.014	27 × 2.5	2	30.5	0.009
12 × 1.0	2	17.0	0.013	30 × 0.75	2	22.0	0.014
12 × 1.5	2	19.0	0.010	30 × 1.0	2	23.5	0.013
12 × 2.5	2	22.5	0.009	30 × 1.5	2	27.0	0.010
12 × 4	2	25.0	0.0077	30 × 2.5	2	31.5	0.009
12 × 6	2	27.5	0.0065	37 × 0.75	2	23.5	0.014
14 × 0.75	2	17.0	0.014	37 × 1.0	2	25.0	0.013
14 × 1.0	2	17.5	0.013	37 × 1.5	2	23.0	0.010
14 × 1.5	2	20.0	0.010	37 × 2.5	2	34.0	0.009
14 × 2.5	2	23.5	0.009	44 × 0.75	2	26.5	0.014
14 × 4	2	26.0	0.0077	44 × 1.0	2	28.0	0.013
14 × 6	2	29.0	0.0065	44 × 1.5	2	22.9	0.010
16 × 0.75	2	17.5	0.014	44 × 2.5	2	38.5	0.009
16 × 1.0	2	18.5	0.013	48 × 0.75	2	26.5	0.014
16 × 1.5	2	21.0	0.010	48 × 1.0	2	28.0	0.013
16 × 2.5	2	24.0	0.009	48 × 1.5	2	32.5	0.010
19 × 0.75	2	18.0	0.014	48 × 2.5	2	39.0	0.009
19 × 1.0	2	19.0	0.013	52 × 0.75	2	27.5	0.014
19 × 1.5	2	22.5	0.010	52 × 1.0	2	29.0	0.013
19 × 2.5	2	25.5	0.009	52 × 1.5	2	34.0	0.010
24 × 0.75	2	20.50	0.014	52 × 2.5	2	40.5	0.009
24 × 1.0	2	22.0	0.013	61 × 0.75	2	29.0	0.014
24 × 1.5	2	25.5	0.010	61 × 1.0	2	30.5	0.013
24 × 2.5	2	29.5	0.009	61 × 1.5	2	36.0	0.010
27 × 0.75	2	21.0	0.014	61 × 2.5	2	42.5	0.009
27 × 1.0	2	22.5	0.013				



KVVP$_2$ 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆

KVVP2 type 450/750V Cu core, PVC insulation & sheath, Cu tape shielded control cable

芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter mm 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)
4 × 0.75	1	10.0	0.012	4 × 6	1	16.0	0.0070
4 × 1.0	1	10.5	0.011	4 × 10	2	21.5	0.0065
4 × 1.5	1	11.5	0.011	5 × 0.75	1	11.0	0.012
4 × 2.5	1	14.0	0.010	5 × 1.0	1	11.0	0.011
4 × 4	1	15.0	0.0085	5 × 1.5	1	12.8	0.011
5 × 2.5	1	15.0	0.10	16 × 1.5	1	19.0	0.011
5 × 4	1	16.0	0.0085	16 × 2.5	1	22.0	0.010
5 × 6	1	17.5	0.0070	19 × 0.75	1	16.5	0.012
5 × 10	2	23.5	0.0065	19 × 1.0	1	17.5	0.011
7 × 0.75	1	11.5	0.012	19 × 1.5	1	20.0	0.011
7 × 1.0	1	12.0	0.011	19 × 2.5	1	23.0	0.010
7 × 1.5	1	14.0	0.011	24 × 0.75	1	19.0	0.012
7 × 2.5	1	16.0	0.010	24 × 1.0	1	20.5	0.011
7 × 4	1	17.5	0.0085	24 × 1.5	1	23.0	0.011
7 × 6	1	19.0	0.0070	24 × 2.5	1	20.5	0.010
7 × 10	2	25.0	0.0065	27 × 0.75	1	19.0	0.012
8 × 0.75	1	12.5	0.012	27 × 1.0	1	20.5	0.011
8 × 1.0	1	13.5	0.011	27 × 1.5	1	23.5	0.011
8 × 1.5	1	15.5	0.011	27 × 2.5	1	27.0	0.010
8 × 2.5	1	17.5	0.010	30 × 0.75	1	20.0	0.012
8 × 4	1	19.0	0.0085	30 × 1.0	1	21.5	0.011
8 × 6	1	21.0	0.0070	30 × 1.5	1	24.0	0.011
8 × 10	2	23.0	0.0065	30 × 2.5	1	23.0	0.010
10 × 0.75	1	14.5	0.012	37 × 0.75	1	21.5	0.012
10 × 1.0	1	15.0	0.011	37 × 1.0	1	22.5	0.011
10 × 1.5	1	17.0	0.011	37 × 1.5	1	26.0	0.011
10 × 1.5	1	19.5	0.010	37 × 2.5	1	30.0	0.010
10 × 4	1	21.5	0.0085	44 × 0.75	1	24.0	0.012
10 × 6	1	23.5	0.0070	44 × 1.0	1	25.0	0.011
10 × 10	2	31.5	0.0065	44 × 1.5	1	29.0	0.011
12 × 0.75	1	14.5	0.012	44 × 2.5	1	34.5	0.010
12 × 1.0	1	15.5	0.011	48 × 0.75	1	24.0	0.012
12 × 1.5	1	17.5	0.011	48 × 1.0	1	25.5	0.011
12 × 2.5	1	20.5	0.010	48 × 1.5	1	29.5	0.011
12 × 4	1	22.5	0.008	48 × 2.5	1	35.0	0.010
12 × 6	1	24.5	0.007	52 × 0.75	1	24.5	0.012
14 × 0.75	1	15.5	0.012	52 × 1.0	1	26.0	0.011
14 × 1.0	1	16.0	0.011	52 × 1.5	1	30.0	0.011
14 × 1.5	1	18.0	0.011	52 × 2.5	1	36.0	0.010
14 × 2.5	1	21.0	0.010	61 × 0.75	1	24.5	0.012
14 × 4	1	23.5	0.008	61 × 1.0	1	27.5	0.011
14 × 6	1	25.5	0.007	61 × 1.5	1	32.5	0.011
6 × 0.75	1	16.0	0.012	61 × 2.5	1	33.5	0.010
16 × 1.0	1	16.5	0.011				

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)
4 × 2.5	1	17.0	0.010	16 × 0.75	1	19.5	0.012
4 × 4	1	18.5	0.0085	16 × 1.0	1	20.0	0.011
4 × 6	1	19.0	0.0070	16 × 1.5	1	22.5	0.011
4 × 10	2	25.0	0.0065	16 × 2.5	1	25.5	0.010
5 × 2.5	1	18.0	0.010	19 × 0.75	1	20.0	0.012
5 × 4	1	19.5	0.0085	19 × 1.0	1	21.5	0.011
5 × 6	1	21.5	0.0070	19 × 1.5	1	23.5	0.011
5 × 10	2	26.5	0.0065	19 × 2.5	1	26.5	0.010
7 × 0.75	1	15.5	0.012	24 × 0.75	1	22.5	0.012
7 × 1.0	1	16.0	0.011	24 × 1.0	1	23.5	0.011
7 × 1.5	1	17.5	0.011	24 × 1.5	1	26.5	0.011
7 × 2.5	1	19.0	0.010	24 × 2.5	1	30.0	0.010
7 × 4	1	20.5	0.0085	27 × 0.75	1	23.0	0.012
7 × 6	1	22.5	0.0070	27 × 1.0	1	24.0	0.011
7 × 10	2	23.5	0.0065	27 × 1.5	1	37.0	0.011
8 × 0.75	1	16.5	0.012	27 × 2.5	1	30.5	0.010
8 × 1.0	1	17.0	0.011	30 × 0.75	1	23.0	0.012
8 × 1.5	1	13.5	0.011	30 × 1.0	1	24.5	0.011
8 × 2.5	1	21.0	0.010	30 × 1.5	1	27.5	0.011
8 × 4	1	23.0	0.0085	30 × 2.5	1	31.5	0.010
8 × 6	1	24.5	0.0070	37 × 0.75	1	25.0	0.012
8 × 10	2	31.5	0.0065	37 × 1.0	1	27.5	0.011
10 × 0.75	1	18.0	0.012	37 × 1.5	1	29.7	0.011
10 × 1.0	1	18.5	0.011	37 × 2.5	1	32.0	0.010
10 × 1.5	1	20.5	0.011	44 × 0.75	1	27.0	0.012
10 × 2.5	1	23.0	0.010	44 × 1.0	1	28.5	0.011
10 × 4	1	25.0	0.0085	44 × 1.5	1	33.0	0.011
10 × 6	1	27.0	0.0070	44 × 2.5	1	33.0	0.010
10 × 10	2	35.0	0.0065	48 × 0.75	1	27.5	0.012
12 × 0.75	1	18.0	0.012	48 × 1.0	1	23.0	0.011
12 × 1.0	1	19.0	0.011	48 × 1.5	1	34.0	0.011
12 × 1.5	1	20.5	0.011	48 × 2.5	1	33.5	0.010
12 × 2.5	1	23.5	0.010	52 × 0.75	1	26.8	0.012
12 × 4	1	25.5	0.0085	52 × 1.0	1	28.9	0.011
12 × 6	1	28.0	0.0070	52 × 1.5	1	33.5	0.011
14 × 0.75	1	18.5	0.012	52 × 2.5	1	39.3	0.010
14 × 1.0	1	19.5	0.011	61 × 0.75	1	29.5	0.012
14 × 1.5	1	22.0	0.011	61 × 1.0	1	31.0	0.011
14 × 2.5	1	24.5	0.010	61 × 1.5	1	36.5	0.011
14 × 4	1	26.5	0.0085	61 × 2.5	1	42.5	0.010
14 × 6	1	29.0	0.0070				



KVV32型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装控制电缆

KVV32 type 450/750V Cu core, PVC insulation & sheath, thin steel wire armored control cable

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (M Ω.KM)	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (M Ω.KM)
4 × 4	1	20.5	0.0085	27 × 1.0	1	27.0	0.011
4 × 6	1	21.5	0.007	27 × 1.5	1	30.0	0.0114
× 10	2	28.0	0.0065	27 × 2.5	1	34.0	0.010
5 × 4	1	21.5	0.0085	30 × 0.75	1	26.5	0.012
5 × 6	1	23.5	0.007	30 × 1.0	1	27.5	0.0115
× 10	2	29.5	0.0065	30 × 1.5	1	30.5	0.0117
× 1.5	1	19.5	0.011	30 × 2.5	1	34.5	0.010
7 × 2.5	1	21.5	0.10	37 × 0.75	1	28.0	0.012
7 × 4	1	23.0	0.0085	37 × 1.0	1	29.0	0.0117
× 6	1	24.5	0.007	37 × 1.5	1	33.0	0.0117
× 10	2	31.5	0.0065	37 × 2.6	1	38.5	0.010
8 × 1.5	1	31.0	0.011	44 × 0.75	1	30.0	0.012
8 × 2.5	1	23.5	0.010	44 × 1.0	1	31.5	0.0118
× 4	1	26.0	0.0085	44 × 1.5	1	36.0	0.0118
× 6	1	27.5	0.007	44 × 2.5	1	42.0	0.010
8 × 10	2	34.5	0.0065	48 × 0.75	1	30.5	0.012
10 × 1.5	1	23.0	0.011	48 × 1.0	1	32.5	0.01110
× 2.5	1	26.0	0.10	48 × 1.5	1	37.5	0.01110
× 4	1	28.0	0.0085	48 × 2.5	1	42.5	0.010
10 × 6	1	30.0	0.0070	52 × 0.75	1	31.0	0.012
10 × 10	2	33.5	0.0065	52 × 1.0	1	33.0	0.01112
× 1.5	1	23.5	0.011	52 × 1.5	1	33.0	0.01112
× 2.5	1	26.5	0.010	52 × 2.5	1	43.5	0.010
12 × 4	1	28.5	0.0085	61 × 0.75	1	33.0	0.012
12 × 6	1	31.0	0.0070	61 × 1.0	1	34.5	0.01114
× 1.5	1	24.0	0.011	61 × 1.5	1	40.0	0.01114
× 2.5	1	27.5	0.010	61 × 2.5	1	46.5	0.010
14 × 4	1	29.5	0.0085				
14 × 6	1	32.0	0.007				
16 × 1.5	1	25.5	0.011				
16 × 2.5	1	28.5	0.010				
19 × 0.75	1	22.0	0.012				
19 × 1.0	1	23.5	0.011				
19 × 1.5	1	26.5	0.011				
19 × 2.5	1	29.5	0.010				
24 × 0.75	1	25.5	0.012				
24 × 1.0	1	26.5	0.011				
24 × 1.5	1	29.5	0.011				
24 × 2.5	1	33.5	0.010				
27 × 0.75	1	26.0	0.012				

芯数 × 标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)	芯数 × 标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)
4 × 0.5	3	9.0	0.013	19 × 0.5	3	15.5	0.013
4 × 0.75	3	9.4	0.011	19 × 0.75	3	16.5	0.011
4 × 1.0	3	10.0	0.010	19 × 1.0	3	17.5	0.010
4 × 1.5	3	11.5	0.010	19 × 1.5	3	20.0	0.010
4 × 2.5	3	13.0	0.009	19 × 2.5	3	24.0	0.009
5 × 0.5	3	9.6	0.013	24 × 0.5	3	18.0	0.013
5 × 0.75	3	10.5	0.011	24 × 0.75	3	19.0	0.011
5 × 1.0	3	11.0	0.010	24 × 1.0	3	20.0	0.010
5 × 1.5	3	12.0	0.010	24 × 1.5	3	23.5	0.010
5 × 2.5	3	14.5	0.009	24 × 2.5	3	27.5	0.009
7 × 0.5	3	10.5	0.013	27 × 0.5	3	18.0	0.013
7 × 0.75	3	11.0	0.011	27 × 0.75	3	19.5	0.011
7 × 1.0	3	11.5	0.010	27 × 1.0	3	20.5	0.010
7 × 1.5	3	13.0	0.010	27 × 1.5	3	24.0	0.010
7 × 2.5	3	16.0	0.009	27 × 2.5	3	28.5	0.009
8 × 0.5	3	11.5	0.013	30 × 0.5	3	18.5	0.013
8 × 0.75	3	12.0	0.011	30 × 0.75	3	20.0	0.011
8 × 1.0	3	13.0	0.010	30 × 1.0	3	21.5	0.010
8 × 1.5	3	15.0	0.010	30 × 1.5	3	25.0	0.010
8 × 2.5	3	17.5	0.009	30 × 2.5	3	29.5	0.009
10 × 0.5	3	12.5	0.013	37 × 0.5	3	20.0	0.013
10 × 0.75	3	13.5	0.011	37 × 0.75	3	21.5	0.011
10 × 1.0	3	15.0	0.010	37 × 1.0	3	23.5	0.010
10 × 1.5	3	17.0	0.010	37 × 1.5	3	27.0	0.010
10 × 2.5	3	19.5	0.009	37 × 2.5	3	31.5	0.009
12 × 0.5	3	13.0	0.013	44 × 0.5	3	22.5	0.013
12 × 0.75	3	14.5	0.011	44 × 0.75	3	24.5	0.011
12 × 1.0	3	15.5	0.010	44 × 1.0	3	26.0	0.010
12 × 1.5	3	17.5	0.010	44 × 1.5	3	30.0	0.010
12 × 2.5	3	20.5	0.009	44 × 2.5	3	36.0	0.009
14 × 0.5	3	13.5	0.013	48 × 0.5	3	23.0	0.013
14 × 0.75	3	15.0	0.011	48 × 0.75	3	25.0	0.011
14 × 1.0	3	16.0	0.010	48 × 1.0	3	26.5	0.010
14 × 1.5	3	18.0	0.010	48 × 1.5	3	30.5	0.010
14 × 2.5	3	21.0	0.009	48 × 2.5	3	36.5	0.009
16 × 0.5	3	15.0	0.013	52 × 0.5	3	23.5	0.013
16 × 0.75	3	16.0	0.011	52 × 0.75	3	25.5	0.011
16 × 1.0	3	17.0	0.010	52 × 1.0	3	27.0	0.010
16 × 1.5	3	19.0	0.010	52 × 1.5	3	31.0	0.010
16 × 2.5	3	23.0	0.009	52 × 2.5	3	37.5	0.009



KVVRP 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制软电缆

KVVRP type 450/750V Cu core,PVC insulation & sheath,braiding shielded soft control cable

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ (MΩ · km)
4 × 0.5	3	10.5	0.013	14 × 1.0	3	17.5	0.010
4 × 0.75	3	11.0	0.011	14 × 1.5	3	20.0	0.010
4 × 1.0	3	11.5	0.010	14 × 2.5	3	23.0	0.009
4 × 1.5	3	12.5	0.010	16 × 0.5	3	16.5	0.013
4 × 2.5	3	15.0	0.009	16 × 0.75	3	17.5	0.011
5 × 0.5	3	11.0	0.013	16 × 1.0	3	18.5	0.010
5 × 0.75	3	11.5	0.011	16 × 1.5	3	20.5	0.010
5 × 1.0	3	12.0	0.010	16 × 2.5	3	24.5	0.009
5 × 1.5	3	13.5	0.010	19 × 0.5	3	17.0	0.013
5 × 2.5	3	16.0	0.009	19 × 0.75	3	18.0	0.011
7 × 0.5	3	11.5	0.013	19 × 1.0	3	19.0	0.010
7 × 0.75	3	12.5	0.011	19 × 1.5	3	22.0	0.010
7 × 1.0	3	13.0	0.010	19 × 2.5	3	25.5	0.009
7 × 1.5	3	15.0	0.010	24 × 0.5	3	19.5	0.013
7 × 2.5	3	17.5	0.009	24 × 0.75	3	20.5	0.011
8 × 0.5	3	13.0	0.013	24 × 1.0	3	22.0	0.010
8 × 0.75	3	13.5	0.011	24 × 1.5	3	25.0	0.010
8 × 1.0	3	15.0	0.010	24 × 2.5	3	29.5	0.009
8 × 1.5	3	17.0	0.010	27 × 0.5	3	19.5	0.013
8 × 2.5	3	19.0	0.009	27 × 1.0	3	22.5	0.010
10 × 0.5	3	14.5	0.013	27 × 1.5	3	25.5	0.010
10 × 0.75	3	15.5	0.011	30 × 1.0	3	23.5	0.010
10 × 1.0	3	16.5	0.010	30 × 1.5	3	37.0	0.010
10 × 1.5	3	18.5	0.010	37 × 1.0	3	25.0	0.010
10 × 2.5	3	21.0	0.009	37 × 1.5	3	28.5	0.010
12 × 0.5	3	15.0	0.013	44 × 1.0	3	27.5	0.010
12 × 0.75	3	16.0	0.011	44 × 1.5	3	32.0	0.010
12 × 1.0	3	17.0	0.010	48 × 1.0	3	28.0	0.010
12 × 1.5	3	19.0	0.010	48 × 1.5	3	32.0	0.010
12 × 2.5	3	22.5	0.009	52 × 1.0	3	29.0	0.010
14 × 0.5	3	16.0	0.013	61 × 1.0	3	30.5	0.010
14 × 0.75	3	16.5	0.011				

交货长度

1.电缆制造长度应不小于 100m,允许长度不小于 20m 的短段电缆交货,其数量不超过交货总长度的 10%，计量误差为 ± 0.5%;

2.根据双方协议,允许任何长度的电缆交货。

Cable Length:

1.Generally, it should be no less than 100m, pieces of the cable no shorter than 20m are allowed for delivery,which account for no more than 10% of the total length with length error allowance no more than ± 0.5%.

2.It depends on final both agreements.

聚氯乙烯绝缘和护套船用控制电缆

Ship Control Cable with PVC Insulation & Sheath

本产品适用于交流额定电压250V及以下的各种船舶及海上石油平台等水上建筑物，用于对干扰不敏感的电路。

It is used for the circuit insensitive to interference of A.C.rated voltage 250V or lower for ships ,offshore platform,and other building over water.

生产执行标准：
JB/T8141.2-1995。

Executive Standard:
JB/T8141.2-1995

使用条件

1.电缆的长期允许工作温度为60℃;
2.敷设时电缆的最小弯曲半径:
金属屏蔽铠装型（电缆外径D任何值）为6D;
非铠装型（电缆外径D ⩽ 25）为4D;
（电缆外径D ＞ 25）为6D。

Working Conditions:

1.Long-term working temperature allowance of the cable is 60℃
2.Min. Bending Radius in Installation (D- cable outer diameter):
6D for cable with metallic shielding and armor (D any value)
4D for cable without armor(D ⩽ 25);
6D for cable without armor (D ＞ 25)

型号、名称及敷设要求

Type, Description & Installation Demands Laying:

型号 Type	名称 Description	敷设要求 Installation Demands
CKVV/DA	聚氯乙烯绝缘聚氯乙烯护套船用控制电缆 Ship control cable with PVC insulation & sheath	固定敷设特性代号: D- 符合单根垂直燃烧试验 Character code for fixed installation: D- pass vertically firing test on single piece of cabe
CKVV80/DA	聚氯乙烯绝缘和护套裸铜丝编织铠装船用控制电缆 Ship control cable with PVC insulation & sheath, and bare Cu wire braided armor	
CKVV82/DA	聚氯乙烯绝缘铜丝编织铠装聚氯乙烯护套船用控制电缆 Ship control cable with PVC insulation & sheath,and Cu wire braided armor	

注: 可生产钢丝铠装船用控制电缆。

Remarks: We also produce ship control cable with steel wire armor.

规格范围 Specification Range

型号 Type	芯数 Core Number	截面（mm^2）Cross-section Area
所有型号 All types	2,4,7,10,14,19,24,30,37	0.75，1.0

规格尺寸

符合JB/T8141.2-1995规格数据表。

Specifications:

as the stipulations in JB/T8141.2-1995

技术要求

1.电缆应经受交流电压1500V或直流3600V，5min的电压试验;
2.电缆具有符合GB2951.19耐燃烧性能。

Technical Demands:

1.The cable could pass voltage test of A.C. 1500V or D.C. 3600V lasting 5 minutes.
2.Fire-resistant performance of the cable meets with the stipulatons in GB2951.19.

交货要求

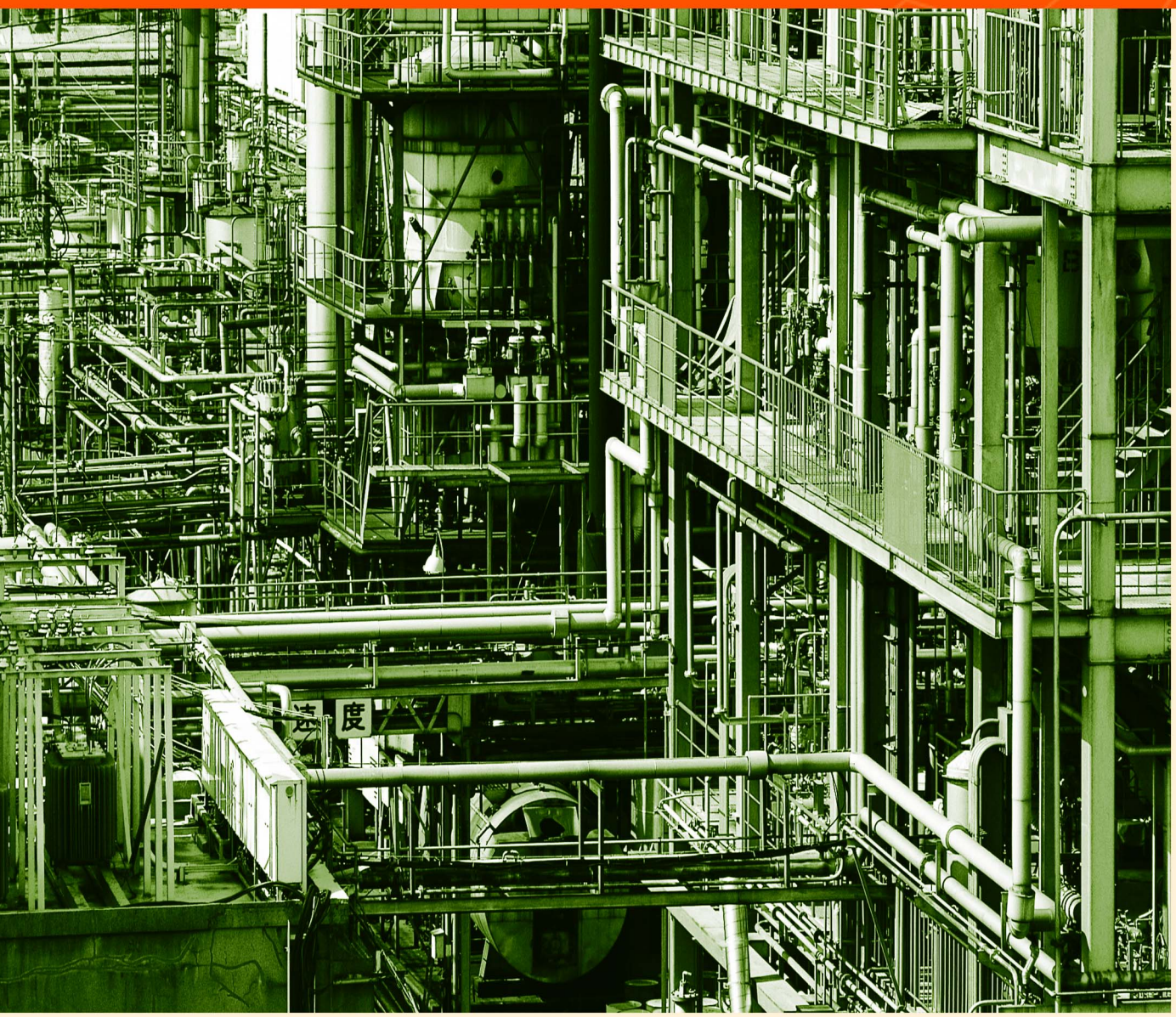
按双方协议规定，长度计量误差为 ± 0.5%。

Cable Length:

It depends on both agreements with length error allowance ± 0.5%.

特种电缆

SPECIAL CABLES



安徽天康(集团)股份有限公司

ANHUI TIANKANG(GROUP)SHARES CO.,LTD.

0.6/1kV 聚氯乙烯绝缘电力软电缆

0.6/1kV Soft Power Cable with PVC Insulation

本产品适用于交流额定电压 0.6/1kV 的电力系统中,作输配电能用。产品除具有聚氯乙烯绝缘电缆已有的优良性能外，还具有柔软、易弯曲等特点。

It is used to transmit and distribute power for power system of A.C. rated voltage 0.6/1kV. It has not only better performance of PVC insulated power cable, but advanteges including softness and flexibility as well.

生产执行标准:
YD/T1173-2001

Executive Standard:
YD/T1173-2001

型号及名称 Type & Description

型号 Type	名 称 Description
RVV	铜芯聚氯乙烯绝缘聚氯乙烯护套电力软电缆 Soft power cable with Cu core, PVC insulation & sheath
RVVZ	铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃型电力软电缆 Soft flame-retardant power cable with Cu core, PVC insulation & sheath
RVV22	铜芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力软电缆 Soft power cable with Cu core, PVC insulation, steel tape armor, and PVC sheath
RVVZ22	铜芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套阻燃型电力软电缆 Soft flame-retardant power cable with Cu core, PVC insulation, steel tape armor, and PVC sheath

产品规格 Specifications

型号 Type		芯数 Core Number	标称截面 Nominal Cross-section Area (mm^2)
RVV	RVVZ	1	1.5~400
RVV RVV22	RVVZ RVVZ22	2	1.5~185
RVV RVV22	RVVZ RVVZ22	3	1.5~300 4~300
RVV RVV22	RVVZ RVVZ22	4	4~185
RVV RVV22	RVVZ RVVZ22	3+1	4~300 4~240
RVV RVV22	RVVZ RVVZ22	3+2	4~240 10-240

使用条件

1.电缆的导体长期允许最高工作温度为 70℃;
2.电缆敷设时最低环境温度为 0℃;
3.电缆允许弯曲半径：单芯电缆不小于电缆外径的 15 倍；多芯电缆不小于电缆外径的 10 倍;
4.短路时(最长持续时间不超过 5S)，电缆导体的最高工作温度为 160℃;

Working Conditions

1.Max. conductor temperature for long-term working is 70℃.
2.Min. ambient temperature in installation is 0℃.
3.The cable bending radius allowed should be no less than 15 times that of cable outer diameter for single core cable, and 10 times for multi-core cable.
4.Max. working temperature of conductor in time of short circuit is 160℃. (It lasts no longer than 5 minutes.)



主要技术性能 Technical Performance

导体直流电阻(20℃时)
D.C. Conductor Resistance: (20℃)

标称截面 Nominal Cross-section Area (mm^2)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
20℃时导体直流电阻≤ Ω/km D.C.Conductor Resistance at 20℃≤Ω /km	13.3	7.98	4.91	3.30	1.91	1.21	0.780	0.554	0.389	0.272	0.206	0.161	0.129	0.106	0.0801	0.0641	0.0495

绝缘电阻
Insulation Resistance

序号 No.	性能 Performance	聚氯乙烯绝缘 PVC Insulation
1	体积电阻率 ρ Ω.cm20℃时 Volume Resistance Rate ρ Ω.cm at 20℃ 电缆工作温度时 under cable working temperature	10^{13} 10^{10}
2	绝缘电阻常数 Ki M Ω.km 20℃时 Insulation Resistance Constant Ki M Ω.cm at 20℃ 电缆工作温度时 under cable working temperature	36.7 0.037

交流电压试验

成品电缆应经受交流 50HZ、5min、3.5KV 的电压试验不击穿。

A.C. Voltage Test

The finished cable could endure voltage test of A.C. 50Hz, 3.5KV for 5 minutes without puncture.

选用须知

1.与同规格的普通聚氯乙烯绝缘聚氯乙烯护套电力电缆相比，电缆的外径一般增加：导体截面为 95 mm^2 及以下，外径增加 2~10mm；导体截面为 120 mm^2 及以上，外径增加 12~20mm；电缆的重量一般增加 4%~10%。

2.电缆单根交货长度应不小于 100m，也可按双方协议长度交货。

Notices:

1.In comparison with common power cables of the same specification with PVC insulation and sheath, the cable outer diameter is bigger by 2~10mm for the cables with conductor cross-section area of no more than 95mm^2,andby 12~20mm for those of no less than 120mm^2. Generally, the cable weight remains heavier by 4%~10%.

2.The length of single piece of cable for delivery should be no less than 100 meters. It depends on the final both agreements.

金属屏蔽电力电缆

Metallic Shielded Power Cable

本产品适用于额定电压0.6/1kV及以下的电力线路中作输送电能用。产品具有较强的电磁干扰、抗雷击及均衡电位，改善供电品质的特性，特别适宜计算机中心，航空航天监控中心，智能大楼等精密电子装置场所。

It is used for power transmission on power lines of rated voltage 0.6/1kV or lower. It has strong resistant characters against electromagnetic interference, thunder strike and even electric potential, improving power supply quality. It is especially suitable to the places with precision electronic devices such as computer center, space & aviation supervision center, intellectual buildings, etc.

生产执行标准
企业标准

Executive Standard
as the enterprise's standard

型号名称 Type & Description

型 号 Type		名 称 Description
铜 Cu	铝 Al	
VVP VV22P	VLVP VLV22P	铜、铝芯聚氯乙烯绝缘金属屏蔽（钢带铠装）聚氯乙烯护套电力电缆 Power cable with Cu or Al core, PVC insulation, metallic shielding (steel tape armor), and PVC sheath
YJVP YJV22P	YJLVP YJLV22P	铜、铝芯交联聚乙烯绝缘金属屏蔽（钢带铠装）聚氯乙烯护套电力电缆 Power cable with Cu or Al core, XLPE insulation, metallic shielding (steel tape armor), and PVC sheath

注 ①该产品可按用户的使用要求，设计成具有阻燃性能或耐火性能的产品。订货时只需在原型号前加“ZR-”表示阻燃型，加“NH-”表示耐火型；
②电缆的金属屏蔽可按用户要求有两种形式：金属丝编织或金属带材绕包。

Remarks: ① We also produce the cables with flame-retardant or fire-resistant performance as cusmtomer demand. Prefix "ZR-" should be added to the original type for flame-retardant cable, and "NH-" added for fire-resistant cable.
②The metallic shieldings of the cable include 2 forms, braided metallic wire & wrapped metallic tape.

规格 Specification

型 号 Type		芯 数 Core Number	标称截面 mm² Nominal Cross-section Area (mm²)
铜 Cu	铝 Al		
VVP YJVP	VLVP YJLVP	1	4~300
VVP VV22P YJVP YJV22P	VLVP VLV22P YJLVP YJLV22P	2	4~185
		3	4~300
		3+1	
		4	4~185



使用条件

1.导体最高长期允许工作温度：聚氯乙烯绝缘为70℃；交联聚乙烯绝缘为90℃。

2.电缆短路时（最长持续时间不超过5S），导体的最高温度不超过：聚氯乙烯绝缘为160℃；交联聚乙烯绝缘为250℃。

3.敷设时环境温度应不低于0℃。

4.电缆允许弯曲半径为：单芯电缆不小于电缆外径的20倍；多芯电缆不小于电缆外径的15倍。

Working Conditions:

1.Max. allowed conductor temperature for long-term working: 70℃ for cable with PVC insulation; 90℃ for cable with XLPE insulation.

2.Max. conductor temperature in time of short circuit (It lasts no longer than 5 seconds.): 160℃ for cable with PVC insulation; 250℃ for cable with XLPE insulation.

3.Ambient temperature in installation should be no lowerthan 0℃.

4.Cable bending radius allowed should be no less than 20times that of cable outer diameter for single core cable, and no less than 15 times for multi core cable.

电缆近似外径
Approximate Cable Outer Diameter

规　格 Specification	电缆近似外径 mm Approximate Cable Outer Diameter		电缆近似重量　kg/km Approximate Cable Weight			
芯数×标称截面(mm^2) Core Number × Nominal Cross-section Area	VVP VLVP	VV22P VLV22P	VVP	VLVP	VV22P	VLV22P
1 × 4	9.9	--	167	142	--	--
1 × 6	10.4	--	195	158	--	--
1 × 10	11.7	--	262	200	--	--
1 × 16	12.8	--	338	238	--	--
1 × 25	14.3	--	454	298	--	--
1 × 35	15.0	--	555	337	--	--
1 × 50	16.8	--	730	424	--	--
1 × 70	19.5	--	960	529	--	--
1 × 95	21.3	--	1268	673	--	--
1 × 120	22.8	--	1525	775	--	--
1 × 150	24.6	--	1827	906	-	--
1 × 185	26.7	--	2216	1075	--	--
1 × 240	29.7	--	2831	1338	--	--
1 × 300	32.6	--	3486	1605	--	--
2 × 4	14.0	17.7	292	242	476	426
2 × 6	15.2	18.4	349	274	549	475
2 × 10	17.7	21.0	485	359	717	590
2 × 16	19.9	23.1	645	445	903	703
2 × 25	23.1	26.3	879	543	1166	850
2 × 35	26.5	29.5	1017	578	1298	859
2 × 50	22.3	24.5	1337	720	1618	1001
2 × 70	24.7	28.1	1754	888	2085	1219
2 × 95	28.8	33.4	2375	1183	3102	1910
2 × 120	30.7	35.5	2872	1374	3659	2162
2 × 150	33.0	38.0	3465	1621	4324	2481
2 × 185	36.3	41.3	4243	1910	5182	2849
3 × 4	14.8	18.0	356	282	646	535
3 × 6	15.9	19.1	438	326	656	582
3 × 10	18.7	21.9	621	432	865	676
3 × 16	21.0	24.2	842	542	1114	815
3 × 25	24.4	27.6	1179	705	1500	1026
3 × 35	27.9	31.0	1463	806	1718	1061
3 × 50	26.5	31.3	1909	984	2597	1672
3 × 70	29.8	34.1	2544	1237	3311	2004

续表

规 格 Specification	电缆近似外径 mm Approximate Cable Outer Diameter		电缆近似重量 kg/km Approximate Cable Weight			
芯数 × 标称截面(mm²) Core Number × Nominal Cross-section Area	VVP VLVP	VV22P VLV22P	VVP	VLVP	VV22P	VLV22P
3 × 95	34.9	39.5	3461	1689	4328	2556
3 × 120	37.4	42.4	4219	1972	5170	2923
3 × 150	40.5	45.3	5117	2350	6134	3368
3 × 185	44.6	49.8	6271	2846	7433	4008
3 × 240	50.1	55.5	8088	3589	9408	4909
3 × 300	55.2	60.3	10014	4362	11490	5838
3 × 4+1 × 2.5	15.5	18.7	390	300	598	460
3 × 6+1 × 4	16.9	20.1	492	356	714	516
3 × 10+1 × 6	20.1	23.3	703	476	964	738
3 × 16+1 × 10	22.2	25.4	963	600	1251	888
3 × 25+1 × 10	25.8	29.2	1602	878	1698	1124
3 × 35+1 × 16	25.5	28.8	1636	1028	1977	1219
3 × 50+1 × 25	29.2	33.8	2233	1150	2970	1888
3 × 70+1 × 35	33.7	38.5	3012	1494	3870	2352
3 × 95+1 × 50	38.6	43.6	4044	1948	5037	2940
3 × 120+1 × 70	41.7	56.7	5000	2321	6174	3495
3 × 150+1 × 70	44.9	50.1	5908	2710	7077	3878
3 × 185+1 × 95	49.7	54.9	7353	3333	8639	4618
3 × 240+1 × 120	55.3	60.9	9392	4144	10871	5623
3 × 300+1 × 150	60.7	66.7	11628	5055	13281	6708
4 × 4	16.0	19.2	416	317	625	526
4 × 6	17.2	20.4	517	368	742	593
4 × 10	20.3	23.6	734	487	998	752
4 × 16	22.9	26.1	1003	612	1299	908
4 × 25	26.7	31.5	1450	823	2144	1516
4 × 35	30.6	37.0	1840	939	2531	1630
4 × 50	29.5	34.3	2506	1205	3263	1962
4 × 70	33.4	38.2	3284	1529	4132	2377
4 × 95	38.8	43.8	4419	2065	5416	3362
4 × 120	42.1	47.3	5423	2449	6521	3547
4 × 150	46.6	51.2	6713	2963	7898	4147
4 × 185	51.0	56.3	8184	3584	9520	4930

注: 交联聚乙烯绝缘电缆，外径在此基础上下降 5 %

Remarks: The ouer diameter of XLPE insulated cabe shoud be smaller by 5% on the basis above.

主要技术参数

1、导体直流电阻

参见 0.6/1kV 聚氯乙烯绝缘及护套电力电缆

2、绝缘电阻

Main Technical Parameters

1、D.C. Conductor Resistance:

See those for 0.6/1kV power cable with PVC insulation & sheath

2、 Insulation Resistance:

序号 No.	性能 Performance	聚氯乙烯绝缘 PVC Insulation	交联聚乙烯绝缘 XLPE Insulation
1	体积电阻率 ρ Ω.cm 20℃时 Volume Resistance Rate ρ Ω.cm at 20℃ 电缆工作温度时 under cable working temperature	10^{13} 10^{10}	-- 10^{10}
2	绝缘电阻常数 Ki MΩ.km 20℃时 Insulation Resistance Constant Ki MΩ.cm at 20℃ 电缆工作温度时 under cable working temperature	36.7 0.037	-- 3.67



3、交流电压试验成品电缆经受交流50Hz、5min、3.5kV的
电压试验不击穿。

4、耐火型电缆的耐火特性应符合IEC60331或GB12666.6中的A类或B类耐火试验要求。

5、阻燃型电缆的阻燃性能应符合IEC60332或GB12666.5标准中规定的A、B或C三类中任一类阻燃性能要求。

3. A. C. Voltage Test The finished cable should pass voltage test of A.C. 50Hz, 3.5kV lasting 5 minutes without puncture.

4. Fire-resistant performance of fire-resistant cable should meet testing demands of category A or B stipulated in IEC60331 or GB12666.6

5.Flame-retardant performance of flame-retardant cable should meet testing demands of category A, B or C stipulated in IEC60332 or GB12666.5.

交货长度

1、交货电缆单根长度不小于100m，允许长度不小于20m的短段电缆交货，其数量不超过交货长度的±10%。

2、根据双方协议，允许任何长度的电缆交货。

3、长度计量误差不超过±0.5%。

Cable Length

1.The length of single piece of cable should be no less than 100 meters, pieces of cable no shorter than 20 meters accounting for no more than ±10% of the total length are allowed for delivery.

2.It depends on final both agreements.

3.The allowed length error should be no more than ± 0.5%.

核电站用电缆

Cable for Nuclear Power Station

该类电缆适用于核电站核反应堆(压水堆或沸水堆)安全壳外用IE级K3类电缆回路。

It is used for return circuit of class IE category K3 outside security housing of nuclear reactor in nuclear power station.

生产执行标准

企业标准（参照法国《RCC-E压水堆核电站核岛电气设备设计和建造规则》及核工业第二研究设计院编写的《0.6/1kV控制电缆技术规格书》的规定要求）

Executive Standard:

as the enterprise's enterprise (with reference to "Design & Manufacturing Regulations on Electric Devices of Nuclear Island of RCC-E Reactor in Nuclear Power Station" of France & "Technical Specifications of 0.6/1kV Control Cable" by No.2 Research & Design Institute of Nuclear Industry)

产品主要特点

1.该产品是用于核反应堆安全壳外，在正常情况及地震荷载下能执行其功能的电缆。质量鉴定程序为“K3”类。

2.产品具有无卤低烟阻燃特性，当火灾发生时蔓延速度慢，烟浓度低，有害气体释放量小，故对仪器设备的腐蚀性伤害小，能够适应核电站特殊环境要求。

3.该类产品共开发了以下几个品种：额定电压6/10kV及以下电力电缆、控制电缆、仪器仪表电缆、补偿电缆、通信用光缆等五个系列，以适应不同场合的使用要求。

Main Features:

1.The cable, which is located outside security housing of nuclear reactor, keeps itself in normal operation under normal circumstance and earthquake loading. It belongs to category K3 by quality appraisal procedure .

2.It has flame-retardant performance free from halogen with low smoke and low spreading speed, smoke density and poisonous gas emission in fire disater, which results in low corrosion on instruments and devices. It could meet special environmental demands of nuclear power station.

3.Cables for nuclear power station include 5 categories: powercable of rated voltage 6/10kV or lower, control cable, instrument cable, compensational cable, & optic fiber cable.

产品型号规格

1、**额定电压** 6/10kV **及以下电力电缆**　Power Cable of Rated Voltage 6/10kV or Lower

型号名称　Type & Description

核电站电力电缆 型号及名称

Type & Description of Power Cable for Nuclear Power Station

型　号 Type		名　　称 Description
铜 Cu	铝 Al	
HDYJE-6	HDYJLE-6	额定电压 6/10kV 交联聚乙烯绝缘热塑性(热固性)护套无卤低烟阻燃核电站用电力电缆 Flame-retardant power cable for nuclear power station of rated voltage 6/10kV with XLPE insulation, low smoke and halogen-free thermoplasticity (thermosetting) sheath
HDYJE23-6	HDYJLE23-6	额定电压 6/10kV 交联聚乙烯绝缘钢带铠装热塑性(热固性)护套无卤低烟阻燃核电站用电力电缆 Flame-retardant power cable for nuclear power station of rated voltage 6/10kV with XLPE insulation, steel tape armor, low smoke and halogen-free thermoplasticity (thermosetting) sheath
HDYJE-1	HDYJLE-1	额定电压 0.6/1kV 交联聚乙烯绝缘热塑性(热固性)护套无卤低烟阻燃核电站用电力电缆 Flame-retardant power cable for nuclear power station of rated voltage 0.6/1kV with XLPE insulation, low smoke and halogen-free thermoplasticity (thermosetting) sheath
HDYJE23-1	HDYJLE23-1	额定电压 0.6/1kV 交联聚乙烯绝缘钢带铠装热塑性（热固性）护套无卤低烟阻燃核电站用电力电缆 Flame-retardant power cable for nuclear power station of rated voltage 0.6/1kV with XLPE insulation, steel tape armor, low smoke and halogen-free thermoplasticity (thermosetting) sheath



规格 Specification

核电站用电力电缆规格

Power Cable Specification for Nuclear Power Station

型 号 Type		芯数 Core Number	额定电压 Rated Voltage kV	
			0.6/1	6/10
			标称截面 mm² Nominal Cross-section Area mm²	
HDYJE-6	HDYJLE-6	1	1.5~400	50~400
HDYJE23-6	HDYJLE23-6	2	1.5~150	--
HDYJE-1	HDYJLE-1	3	1.5~300	25~400
HDYJE23-1	HDYJLE23-1	4	1.5~300	--
		3+2、4+1	1.5~300	--
		5	1.5~35	--

注：钢带铠装结构电缆，导体截面应选择 2.5mm² 以上规格。

Remarks: The cross-section area of conductor for the cable with steel tape armor should be more than 2.5mm².

2、**控制电缆** Control Cable

型号名称 Type & Description

核电站用控制电缆型号及名称

Type & Description of Control Cable for Nuclear Power Station

型 号 Type	名 称 Description
HKYJE	铜芯交联聚乙烯绝缘热塑性（热固性）无卤低烟阻燃聚烯烃护套核电站用控制电缆 Control cable for nuclear power station with Cu core, XLPE insulation, low smoke, halogen-free & flame-retardant thermoplasticity (thermosetting) polyolefin sheath
HKYJEP	铜芯交联聚乙烯绝缘镀锡铜线编织屏蔽热塑性(热固性)无卤低烟阻燃聚烯烃护套核电站用控制电缆 Control cable for nuclear power station with Cu core, XLPE insulation, shield of braidied tinned Cu wire, low smoke, halogen-free & flame-retardant thermoplasticity (thermosetting) polyolefin sheath
HKYJE23	铜芯交联聚乙烯绝缘钢带铠装热塑性(热固性)无卤低烟阻燃聚烯烃护套核电站用控制电缆 Control cable for nuclear power station with Cu core, XLPE insulation, steel tape armor, low smoke, halogen-free & flame-retardant thermoplasticity (thermosetting) sheath

注：电缆屏蔽形式可以是编织屏蔽型，也可以是铜塑复合带(P_2)或铝塑复合带(P_L)绕包屏蔽型。

Remarks: The shieldings include braiding shield, Cu-plastics compound tape (P_2) or Af-plastics compound tape (P_L) wrapping shield.

规格 Specifications

核电站用控制电缆规格

Specifications of Control Cable for Nuclear Power Station

型 号 Type	额定电压 Rated Voltage(kV)	标称截面 Nominal Cross-section Area (mm²)		
		1.0	1.5	2.5
		芯 数 Core Number		
HKYJE HKYJEP	0.6/1	2~61		
HKYJE23		4~61		

3、仪器、仪表电缆　Instrument Cable

型号及名称　Type & Description

核电站用仪器仪表电缆型号及名称

Type & Description of Instrument Cable for Nuclear Power Station

型　号 Type	名　　称 Description
HYYJEP	铜芯交联聚乙烯绝缘镀锡铜丝编织总屏蔽热塑性(热固性)无卤低烟阻燃聚烯烃护套核电站用仪器仪表电缆 Instrument cable for nuclear power station with Cu core, XLPE insulation, general shielding of braided tinned Cu wire, low smoke, halogen-free & flame-retardant thermoplasticity (thermosetting) polyolefin sheath
$HYYJP_2EP_2$	铜芯交联聚乙烯绝缘铜塑复合带绕包分屏蔽及总屏蔽热塑性(热固性)无卤低烟阻燃聚烯烃护套核电站用仪器仪表电缆 Instrument cable for nuclear power station with Cu core, XLPE insulation, individual and general shields of wrapping Cu-plastics compound tape, low smoke, halogen-free & flame-retardant thermoplasticity (thermosetting) polyolefin sheath
$HYYJP_LEP$	铜芯交联聚乙烯绝缘铝塑复合带绕包分屏蔽镀锡铜丝编织总屏蔽热塑性(热固性)无卤低烟阻燃聚烯烃护套核电站用仪器仪表电缆 Instrument cable for nuclear power station with Cu core, XLPE insulation, individual shield of wrapping Al-plastics compound tape and general shield of braiding tinned Cu wire, low smoke, halogen-free & flame-retardant thermoplasticity (thermosetting) polyolefin sheath
$HYYJEP_2$	铜芯交联聚乙烯绝缘铜带绕包总屏蔽热塑性(热固性)无卤低烟阻燃聚烯烃护套核电站用仪器仪表电缆 Instrument cable for nuclear power station with Cu core, XLPE insulation, general shielding of wrapped Cu tape, low smoke, halogen-free & flame-retardant thermoplasticity (thermosetting) polyolefin sheath
$HYYJEP_L$	铜芯交联聚乙烯绝缘铝塑复合带绕包总屏蔽热塑性(热固性)无卤低烟阻燃聚烯烃护套核电站用仪器仪表电缆 Instrument cable for nuclear power station with Cu core, XLPE insulation, general shielding of wrapped Al-plastics compound tape, low smoke & halogen-free thermoplasticity (thermosetting) polyolefin sheath

规格　Specification

核电站用仪器仪表电缆规格

Specifications of Instrument Cable for Nuclear Power Station

型　号 Type	额定电压V Rated Voltage V	导体直径　mm Condutor Diameter mm	线芯对数（二线组或三线组） Core Pair(s) (2 wire or 3 wire group)
HYYJEP $HYYJEP_2$ $HYYJEP_L$ $HYYJP_2EP_2$ $HYYJP_LEP$	300/500	1.0 或(or) 0.8	1~37



4、补偿电缆　Compensational Cablee

型号及名称 Type & Description

核电站用补偿电缆型号及名称

Type & Description of Compensational Cable for Nuclear Power Station

型　号Type	名　　称Description
HB-(KCB)YJEP	铜 - 铜镍 40 型合金丝导体交联聚乙烯绝缘镀锡铜丝编织屏蔽热塑性(热固性)护套无卤低烟阻燃聚烯烃护套核电站用补偿电缆 Compensational cable for nuclear power station with Cu-CuNi 40 type alloy conductor, XLPE insulation, shield of braided tinned Cu wire, thermoplasticity (thermosetting) polyolefin sheath, low smoke, halogen-free & flame-retardant sheath

注：①补偿电缆的屏蔽型式有总屏蔽、分屏蔽、分屏蔽加总屏蔽三种可供选择，屏蔽材料有：镀锡铜丝(P)、铜带(P_2)、铝带(P_L)

②其它型号补偿电缆EX、TX、NC、JX等只需改写型号中括号内的部分，如HB-EXYJEP2、HB-KXYJPEP。

Remarks: ① The cable shieldings include 3 forms, i.e. general shield, individual shield, individual & general shields, and shielding materials include inned Cu wire (P), Cu tape (P_2) & Al tape (P_L).

②The indication of compensational cables of other types such as EX, TX, NC, JX could be made with the change of those in the brackets, for example, HB-EXYJEP2, HB-KXYJPEP.

规格　Specifications

核电站用补偿电缆规格

Specifications of Compensational Cable for Nuclear Power Station

型　号 Type	额定电压V Rated Voltage V	线芯对数 Core Pair(s)	标称截面 Nominal Cross-section Area (mm^2)
HB-(KCB)YJEP	300/500	1~19	1.0、1.5、2.5

主要技术参数

Main Technical Parameters:

1、导体直流电阻（20℃）

1. D.C. Conductor Resistance (20℃)

1.1 额定电压 6/10kV 及以下核电站用电力电缆，其导体直流电阻值可参照普通塑力缆。

1.1PLS make reference to that of common power cable with plastic insulation for D.C. conductorresistance of power cable of rated voltage 6/10kV or lower for nuclear power station.

1.2 控制电缆导体直流电阻

1.2D.C. Conductor Resistance of Control Cable

标称截面 Nominal Cross Section Area (mm^2)	根数/单丝直径 mm Pieces/ Diameter of Single Piec		20℃时导体直流电阻 D.C. Conductor Resistance (20℃) ⩽ Ω/km	
	1 类 Category 1	2 类 Category 2	不镀金属 Non-plated	镀金属 Plated
1.0	1/1.13	7/0.43	18.1	18.2
1.5	1/1.38	7/0.52	12.1	12.2
2.5	1/1.78	7/0.68	7.41	7.56

1.3 仪表电缆导体直流电阻

1.3D.C. Conductor Resistance of Instrument Cable

导体直径 Conductor Diameter (mm)	20℃时导体直流电阻　D.C. Conductor Resistance (20℃) ⩽ Ω/km	
	不镀金属 Non-plated	镀金属 Plated
0.8	36.0	36.7
1.0	23.5	23.8

1.4 补偿电缆导体结构

1.4Conductor Structure of Compensational Cable

标称截面 Nominal Cross Section Area (mm^2)	20℃时导体直流电阻 D.C. Conductor Resistance (20℃) ⩽ Ω/km	
	单 股 Single Strand	多 股 Multi Strand
1.0	1/1.13	7/0.43
1.5	1/1.37	7/0.52
2.5	1/1.76	19/0.41

2、绝缘电阻常数（Ki）

90℃时 3.67M W · km

2.Insulation Resistance Constant (Ki)

90℃/min 3.67M W · km

3、成品工频耐压试验

1.电力电缆、控制电缆：3.5kV/5min

2.仪表电缆、补偿电缆：绝缘线芯间：2.5kV/5min；绝缘线芯与屏蔽间：1.5kV/5min

3.Voltage Test of Finished Cable under Working Frequency:

1.Power Cable, Control Cable:3.5kV/5min

2.dInstrument Cable, Compensational Cable:between insulated cores: 2.5kV/5minbetween insulated core and shielding: 1.5kV/5min

4、长期热循环试验

1.试验时间 5000h

2.试验电压 2kV

4.Long-term Thermal Cycle Test:

1.Test Time 5000h

2.Test Voltage 2kV

5、阻燃性能

5.1 单根绝缘线芯垂直燃烧试验供火时间：供火 15S，停火 15S，反复 5 次指示旗烧伤面积应小于 25%

5.2 成束电缆燃烧试验 (B 类) 电缆损烧长度⩽ 2.5m

5.3 电缆烟浓度试验 (透光率) ⩾ 60%

5.4 被覆材料燃烧气体的腐蚀性 PH 值⩾ 4.3；电导率⩽ 10ms/mm

5.Flame-retardant Performance:

5.1 Vertical Firing Test of Single Insulated Core Flame Supply Time: 15 S Flame-free Time: 15 SThe damaged area should be less than 25% after 5 times of repetition.

5.2 Cable Firing Test in Bundle (Category B): damaged Cable Length ⩽ 2.5m

5.3 Smoke Density Test (Light Penetration Rate):

5.4 The emitted gas corrosion in firing of sheath material: PH value ⩾ 4.3; Electric Conductivity ⩽ 10ms/mm

使用条件

1.电缆导体的最高额定温度为 90℃，短路时(持续时间不超过 5S)导体最高温度不超过 250℃；

2.电缆敷设时环境温度不低于 0℃；

3.敷设时电缆的允许弯曲半径：非铠装电缆不小于电缆外径的 8 倍；铠装电缆不小于电缆外径的 16 倍，电力电缆还需加大一些；

4.反应堆厂房正常工况 r 射线辐照累剂量为 250KGY；LOCA 工况 r 射线辐照累剂量为 600KGY；

Working Conditions:

1.The highest rated temperature of cable conductor is 90℃. It should be no higher than 250℃ in time of short circuit. (It lasts no longer than 5 minutes.)

2.Ambient temperature in installation should be no lower than 0℃.

3.Allowed bending radius in installation should be no less than 8 times that of calbe outer diameter for cable without armor, and 16 times for armored cable.And it should be bigger for power cable.

4. r ray radiation volume accumulated under normal operation status of reactor is 250KGY; r ray radiation volume accumulated under LOCA status is 600KGY.

交货长度

1.交货长度不低于 200m;

2.根据协议可以任何长度交货;

3.长度计量误差不超过 ± 0.5%。

Cable Length:

1. It should be no less than 200 meters.

2. It depends on final both agreements.

3. The length error allowance should be no more than ±0.5%.



聚氯乙烯绝缘尼龙护套电缆

Power Cable with PVC Insulation & Nylon Sheath

适用于额定电压450/750V及以下动力装置、建筑工程作固定布线用。

It is used for fixed wiring in engine devices of rated voltage of 450/750V or lower and construction projects.

型号及名称 Type & Description

型号 Type	名称 Description	适用范围 Application Range
BVN	铜芯PVC绝缘尼龙护套电线 Cu core, PVC insulation, nylon sheath wire	建筑、电器内部、开关等固定布线用 Wirng for buildings, electrical appliances, switches, etc.
ZR-BVN	铜芯PVC绝缘尼龙护套阻燃电线 Cu core, PVC insulation, nylon sheath, fire-resistant wire	建筑、电器内部、开关等固定布线用，且有阻燃要求的场合 Wirng for buildings, electrical appliances, switches, and other occasion with fire-retardant demands.

规格 Specifications

型号 Type	额定电压V Rated Voltage V	标称截面 Nominal Cross-section Area (mm^2)	芯数 Core Number
BVN	300/500	0.5、0.75、1.0	1
ZR-BVN	450/750	1.5~35	

生产执行标准
企业标准（参照行业报批标准稿内容编制）

Executive Standard
as the enterprise's standard

产品特点

采用素有“柔软铠装”之称的尼龙6材料作电线的护层，在性能上完全符合GB5023和UL83标准要求，具有以下几个特点：

1.耐热变形小，具有优良的热稳定性；
2.较高的机械强度和优异的耐磨性；
3.与同规格的BV线相比，外径减小，给安装敷设带来了便利和经济性；
4.因尼龙自身具有润滑性，摩擦系数小，使电线穿管敷设方便、提高工作效率及使用安全性。

Main Features:

With nylon 6 material as its sheath, which has reputation of ‘soft armor’, its performance meets the demands of GB5023 & UL83. The cable has the following characters:

1.With less disformation in heat, and good thermal stability.
2.With high mechanical strength and good wearability.
3.Its outer diameter is smaller in comparison with BV type wire of the same specification. It is more convenient and economic for installation.
4.The nylon sheath is smooth and with small friction coeffecient in and out of cable tube. So it is convenient for installation and working efficiency and security could be improved.

产品近似外径(供参考) Approximate Cable Outer Diameter (for referene)

标称截面 Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	导体结构 Conductor Structure	参考外径 Outer Diameter for Reference (mm)	20℃时导体直流电阻 (≤ Ω/km) D.C. Conductor Resistance at 20℃		70℃时最小绝缘电阻 Min. Insulation Resistance at 70℃ (M Ω · km)
		根数 / 单丝直径 Pieces/Single Piece Diameter (mm)		铜芯 Cu core	镀锡铜芯 Tinned Cu core	
0.5	1	1/0.80	2.0	36.0	36.7	0.015
0.75	1	1/0.97	2.2	24.5	24.8	0.012
0.75	2	7/0.37	2.4	24.5	24.8	0.014
1.0	1	1/1.13	2.4	18.1	18.2	0.011
1.0	2	7/0.43	2.6	18.1	18.2	0.013
1.5	1	1/1.38	2.7	12.1	12.2	0.011
1.5	2	7/0.52	2.9	12.1	12.2	0.010
2.5	1	1/1.78	3.1	7.41	7.56	0.010
2.5	2	7/0.68	3.4	7.41	7.56	0.009
4	1	1/2.25	3.6	4.61	4.70	0.0085
4	2	7/0.85	4.0	4.61	4.70	0.0077
6	1	1/2.76	4.5	3.08	3.11	0.0070
6	2	7/1.04	4.9	3.08	3.11	0.0065
10	2	7/1.35	6.5	1.83	1.48	0.0065
16	2	7/1.70	7.7	1.15	1.16	0.0050
25	2	7/2.14	9.8	0.727	0.734	0.0050
35	2	7/2.52	10.9	0.524	0.529	0.0040



热电偶用补偿导线、补偿电缆

Compensational Wire & Cable for Thermocouple

补偿导线与补偿电缆是在一定温度范围内（包括常温）具有与所匹配的热电偶的热电动势值相同的一对或多对带有绝缘层的导线或电缆，用它们连接热电偶与测量装置，以补偿它们与热电偶连接处的温度变化所产生的误差，补偿导线与补偿电缆分为延长型和补偿型两种。

Compensational wire and cable are one pair or multi pair of insulated wire or cable with the same Pyro EMF value with matched thermocouple. They are used to connect thermocouple and measuring devices to compensate the error resulting from temperature change on the connection part. They are divided into two types including extension type and compensational type.

生产执行标准
GB/T4989-94 及 JB/T7495-94。

Executive Standard
as GB/T4989-94 & JB/T7495-94

使用条件

Working Conditions:

1.工作温度:
耐热用: 最高 200℃和 260℃两种
一般用: 最高 70℃和 105℃两种
2.最低环境温度:
氟塑料绝缘和护套线缆: 固定敷设 -60℃,非固定敷设 -20℃
聚氯乙烯绝缘和护套线缆: 固定敷设 -40℃,非固定敷设 -15℃
3.允许弯曲半径:
聚氯乙烯绝缘和护套非铠装线缆不小于电缆外径的 6 倍;
氟塑料绝缘和护套非铠装线缆不小于电缆外径的 10 倍;
铠装电缆不小于电缆外径的 12 倍。

1.Max. Working Temperature
Heat-resistant cable:2 kinds including 200℃ & 260℃
Common cable:2 kinds including 70℃ & 105℃.
2.Min. Environment Temperature:
Wire & Cable with fluoroplastics insulation & sheath: Fixed Installation: -60℃, Otherwise: -20℃
Wire & Cable with PVC insulation & sheath: Fixed Installation: -40℃, Otherwise: -15℃
3.Bending Radius Allowed:
It should be no less than 6 times that of cable outer diameter for cables with PVC insulation and sheath but without armor.
It should be no less than 10 times that of cable outer diameter for cables with fluoroplastics insulation and sheath but without armor.
It should be no less than 12 times that of cable outer diameter for armored cables.

型号、名称 Type & Description

补偿导线型号及名称
Type & Description of Compensational Wires

型 号 Type	名 称 Description
KX-G-VV	聚氯乙烯绝缘和护套一般用普通级 K 分度热电偶用补偿导线 General common grade compensational wire for thermocouple of K graduation with PVC insulatin & sheath
KX-G-VPV	聚氯乙烯绝缘和护套铜丝编织屏蔽一般用普通级 K 分度热电偶用屏蔽补偿导线 General common grade shielded compensational wire for thermocouple of K graduation with PVC insulatin & sheath, and sheilding of braided Cu wire
KX-H-FF	氟塑料绝缘和护套普通级 K 分度热电偶用高温补偿导线 Heat-resistant common grade compensational wire for thermocouple of K graduation with fluoroplastics insulation & sheath

型 号 Type	名 称 Description
KX-H-F4B	聚四氟绝缘、玻璃丝编织护套普通级 K 分度热电偶用高温补偿导线 Heat-resistant common grade compensational wire for thermocouple of K graduation with PTFE insulation, and braided glass wire for sheath
KX-H-FPV$_{105}$	氟塑料绝缘铜丝编织屏蔽耐热 105℃聚氯乙烯护套普通级 K 分度热电偶用高温补偿导线 Heat-resistant common grade compensational wire for thermocouple of K graduation with fluoroplastics insulation, shielding of braided Cu wire, and 105℃ heat-resistant PVC sheath

补偿电缆型号及名称

Type & Description of Compensational Cables

型 号 Type	名称 Description
KX-G-VV	聚氯乙烯绝缘对绞聚氯乙烯护套一般用普通级 K 分度热电偶用补偿电缆 General common-grade compensational cable for thermocouple of K graduation with stranded PVC insulated cores & PVC sheath
KX-G-VPV	聚氯乙烯绝缘对绞铜丝编织分屏蔽聚氯乙烯护套一般用普通级 K 分度热电偶用补偿电缆 General common-grade compensational cable for thermocouple of K graduation with stranded PVC insulated cores, individual shielding of braided Cu wire, & PVC sheath
KX-G-VPVP	聚氯乙烯绝缘对绞铜丝编织分屏蔽和总屏蔽聚氯乙烯护套一般用普通级 K 分度热电偶用补偿电缆 General common-grade compensational cable for thermocouple of K graduation with stranded PVC insulated cores, individual & general shieldings of braided Cu wire, & PVC sheath
KX-G-VVP	聚氯乙烯绝缘对绞铜丝编织总屏蔽聚氯乙烯护套一般用普通级 K 分度热电偶用补偿电缆 General common-grade compensational cable for thermocouple of K graduation with stranded PVC insulated cores, general shielding of braided Cu wire, & PVC sheath
IA-KX-G-VP$_3$V	聚氯乙烯绝缘对绞铝塑复合膜双层分屏蔽和单层总屏蔽聚氯乙烯护套一般用普通级 K 分度热电偶用本安补偿电缆 General common-grade compensational cable of intrinsinc safety for thermocouple of K graduation with stranded PVC insulated cores, individual shielding of double layers of Al-plastics compound fim and general shielding of single layer of Al-plastics compound film, & PVC sheath
KX-GS-VV	聚氯乙烯绝缘对绞聚氯乙烯护套一般用精密级 K 分度热电偶用补偿电缆 General precision-grade compensational cable for thermocouple of K graduation with stranded PVC insulated cores, & PVC sheath
KX-GS-VPV	聚氯乙烯绝缘对绞铜丝编织分屏蔽聚氯乙烯护套一般用精密级 K 分度热电偶用补偿电缆 General precision-grade compensational cable for thermocouple of K graduation with stranded PVC insulated cores, individual shielding of braided Cu wire, & PVC sheath
KX-GS-VPVP	聚氯乙烯绝缘对绞铜丝编织分屏蔽和总屏蔽聚氯乙烯护套一般用精密级 K 分度热电偶用补偿电缆 General precision-grade compensational cable for thermocouple of K graduation with stranded PVC insulated cores, individual &general shieldings of braided Cu wire, & PVC sheath
KX-GS-VVP	聚氯乙烯绝缘对绞铜丝编织总屏蔽聚氯乙烯护套一般用精密级 K 分度热电偶用补偿电缆 General precision-grade compensational cable for thermocouple of K graduation with stranded PVC insulated cores, general shielding of braided Cu wire, & PVC sheath
IA-KX-S-VP$_3$V	聚氯乙烯绝缘对绞铝塑复合膜双层分屏蔽和单层总屏蔽聚氯乙烯护套一般用精密级 K 分度热电偶用本安补偿电缆 General precision-grade compensational cable of intrinsinc safety for thermocouple of K graduation with stranded PVC insulated cores, individual shielding of double layers of Al-plastics compound fim and general shielding of single layer of Al-plastics compound film, & PVC sheath



续表

型 号 Type	名称 Description
KX-H-FF	氟塑料绝缘对绞氟塑料护套普通级 K 分度热电偶用高温补偿电缆 Heat-resistant common-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, and fluoroplastics sheath
KX-H-FP$_1$F	氟塑料绝缘对绞镀锡铜丝编织分屏蔽氟塑料护套普通级 K 分度热电偶用高温补偿电缆 Heat-resistant common-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, individual shielding of braided tinned Cu wire, & fluoroplastics sheath
KX-H-FP$_1$FP$_1$	氟塑料绝缘对绞镀锡铜丝编织分屏蔽和总屏蔽氟塑料护套普通级 K 分度热电偶用高温补偿电缆 Heat-resistant common-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, individual & general shieldings of braided tinned Cu wire, & fluoroplastics sheath
KX-H-FF P$_1$	氟塑料绝缘对绞镀锡铜丝编织总屏蔽氟塑料护套普通级 K 分度热电偶用高温补偿电缆 Heat-resistant common-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, general shielding of braided tinned Cu wire, & fluoroplastics sheath
KX-HS-FF	氟塑料绝缘对绞氟塑料护套精密级 K 分度热电偶用高温补偿电缆 Heat-resistant precision-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, and fluoroplastics sheath
KX-HS-FP$_1$F	氟塑料绝缘对绞镀锡铜丝编织分屏蔽氟塑料护套精密级 K 分度热电偶用高温补偿电缆 Heat-resistant precision-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, individual shielding of braided tinned Cu wire, & fluoroplastics sheath
KX-HS-FP1FP$_1$	氟塑料绝缘对绞镀锡铜丝编织分屏蔽和总屏蔽氟塑料护套精密级 K 分度热电偶用高温补偿电缆 Heat-resistant precision-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, individual & general shieldings of braided tinned Cu wire, & fluoroplastics sheath
KX-HS-FF P$_1$	氟塑料绝缘对绞镀锡铜丝编织总屏蔽氟塑料护套精密级 K 分度热电偶用高温补偿电缆 Heat-resistant precision-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, general shielding of braided tinned Cu wire, & fluoroplastics sheath
KX-H-F V$_{105}$	氟塑料绝缘对绞耐热 105℃聚氯乙烯护套普通级 K 分度热电偶用高温补偿电缆 Heat-resistant common-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, & 105℃ heat-resistant PVC sheath
KX-H-FP1 V$_{105}$	氟塑料绝缘对绞镀锡铜丝编织分屏蔽耐热 105℃聚氯乙烯护套普通级 K 分度热电偶用高温补偿电缆 Heat-resistant common-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, individual shielding of braided tinned Cu wire, & 105℃ heat-resistant PVC sheath
KX-H-FP$_1$ V$_{105}$P$_1$	氟塑料绝缘对绞镀锡铜丝编织分屏蔽和总屏蔽耐热 105℃聚氯乙烯护套普通级 K 分度热电偶用高温补偿电缆 Heat-resistant common-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, individual & general shieldings of braided tinned Cu wire, & 105℃ heat-resistant PVC sheath
KX-H-F V$_{105}$P$_1$	氟塑料绝缘对绞镀锡铜丝编织总屏蔽耐热 105℃聚氯乙烯护套普通级 K 分度热电偶用高温补偿电缆 Heat-resistant common-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, general shielding of braided tinned Cu wire, & 105℃ heat-resistant PVC sheath
KX-HS-F V$_{105}$	氟塑料绝缘对绞耐热 105℃聚氯乙烯护套精密级 K 分度热电偶用高温补偿电缆 Heat-resistant precision-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, & 105℃ heat-resistant PVC sheath
KX-HS-FP1 V$_{105}$	氟塑料绝缘对绞镀锡铜丝编织分屏蔽耐热 105℃聚氯乙烯护套精密级 K 分度热电偶用高温补偿电缆 Heat-resistant precision-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, individual shielding of braided tinned Cu wire, & 105℃ heat-resistant PVC sheath

续表

型 号 Type	名称 Description
KX-HS-FP$_1$ V$_{105}$P$_1$	氟塑料绝缘对绞镀锡铜丝编织分屏蔽和总屏蔽耐热105℃聚氯乙烯护套精密级K分度热电偶用高温补偿电缆 Heat-resistatnt precision-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, individual & general shieldings of braided tinned Cu wire, & 105℃ heat-resistant PVC sheath
KX-HS-F V$_{105}$P$_1$	氟塑料绝缘对绞镀锡铜丝编织总屏蔽耐热105℃聚氯乙烯护套精密级K分度热电偶用高温补偿电缆 Heat-resistant precision-grade compensational cable for thermocouple of K graduation with stranded fluoroplastics insulated cores, general shielding of braided tinned Cu wire, & 105℃ heat-resistant PVC sheath

说明①其它型号补偿导线KC、JX、SC、EX、NC、TX等,只需改写型号的第一项，如：EX-G-VV、TX-H-FVP等;
②精密级用“S”表示，在型号的第二项后加上即可，普通级不标。如：KX-HS-VPV等;
③需导体为多股软芯时，应在原型号后加“R”表示，如：TX-G-VVPR;
④补偿导线屏蔽层也可采用复合铝（或铜）带绕包：复合铝带(P3)、复合铜带(P2);
⑤需阻燃型补偿电缆，应在原型号前加“ZR-”;

Remarks: ① The first part of type is changed for indication of compensational wires of other types such as KC, JX, SC, EX, NC, TX, and so on, for example, EX-G-VV, TX-H-FVP.
②We add "S" to the end of second part of type for indication of precision grade cable, no mark necessary for common grade, for example, KX- HS-VPV, etc.
③Suffix "R" is added to the original type for indication of cable with soft multistrand core, for example, TX-G-VVPR;
④ The shielding layer material of compensational wire includes wrapped compound Al (Cu) tape, compound Al tape (P3) and compound Cu tape (P2).
⑤Prefix "ZR" is added to the original type for indication of flame-retardant compensational cable.

规格 Specifications

补偿导线、补偿电缆规格
Specifications of Compensational Wires & Cables

名 称 Description	线芯对数 Core Pair(s)	标称截面 Nominal Cross-section Area (mm^2)	线芯结构 Core Structure	
			A	R
补偿导线 Compenstational Wire	1	0.5	1/0.80	7/0.30
		1.0	1/1.13	7/0.43
补偿电缆 Compensational Cable	1~19	1.5	1/1.37	7/0.52
		2.5	1/1.76	19/0.41

主要技术要求 Main Technical Demand

补偿导线及补偿电缆合金导体和绝缘层颜色
Alloy Conductor Material & Insulation Colors of Compensational Wires & Cables

产品型号 Type	补偿导线及电缆线芯 Conductor Materials of Compensational Wires & Cables		补偿导线绝缘层着色 Insulation Colors of Compensational Wires		配用热电偶分度号 Thermocouple Graduations
	正极 Plus	负极 Minus	正极 Plus	负极 Minus	
SC 或 RC SC or RC	铜 Cu	铜镍 Cu-Ni 0.6	红 Red	绿 Green	S(铂铑10－铂) R(铂铑13－铂) S (PtRh10-Pt) R (PtRh13-Pt)
KCA KCA	铁 Fe	铜镍 Cu-Ni 22	红 Red	蓝 Blue	K(镍铬－镍硅) K (NiCr-NiSi)
KCB KCB	铜 Cu	铜镍 Cu-Ni 40	红 Red	蓝 Blue	
KX KX	镍铬 Ni-Cr 10	镍硅 Ni-Si 3	红 Red	黑 Black	



续表

产品型号 Type	补偿导线及电缆线芯 Conductor Materials of Compensational Wires & Cables		补偿导线绝缘层着色 Insulation Colors of Compensational Wires		配用热电偶分度号 Thermocouple Graduations
	正极 Plus	负极 Minus	正极 Plus	负极 Minus	
EX EX	镍铬 10 Ni-Cr 10	铜镍 Cu-Ni 45	红 Red	棕 Brown	E(镍铬－铜镍) E (NiCr-CuNi)
JX JX	铁 Fe	铜镍 Cu-Ni 45	红 Red	紫 Violet	J(铁－铜镍) J (Fe-CuNi)
TX TX	铜 Cu	铜镍 Cu-Ni 45	红 Red	白 White	T(铜－铜镍) T (Cu-CuNi)
NC NC	铁 Fe	铜镍 Cu-Ni 18	红 Red	灰 Grey	N(镍铬硅－镍硅) N (NiCrSi-NiSi)
NX NX	镍铬 14 硅 Ni-Cr 14 Si	镍硅 Ni-Si	红 Red	灰 Grey	

补偿导线与补偿电缆使用分类、等级标志及护套着色

Category, Class Mark & Sheath Colors of Compensational

使用分类 Category	标志代号 Mark Code	允差等级及标志 Error Allowance Grade & Mark		备注 Remarks	护套着色 Sheath Colors		
		普通级 Common Grade	精密级 Precision Grade		普通级 Common Grade	精密级 Precision Grade	本安型 Intrinsic Safety Type
一般用 General	G	省略 omissible	S	在旧标准 GB4989-85 中 普通级用 B 表示 精密级用 A 表示 B for common grade in GB4989-85 A for precision grade	黑色 Black	灰色 Grey	蓝色 Blue
耐热用 Heat Resistance	H				黑色 Black	黄色 Yellow	蓝色 Blue

补偿导线及补偿电缆热电特性及允差表

Pyroelectric Character & Allowance of Compensational Wires & Cables

型号 Type	使用分类 Category	导线电缆温度范围℃ Temperature Range of Wires & Cables	热电动势允差 μv Pyro EMF		热电偶测量端温度℃ Measuring End Temperature of Thermocouple	往复电阻 20℃长度为 1m 不大于Ω Reciprocating Resistance of 1 meter long cable at 20℃ ≤ Ω			
			普通级 Common Grade	精密级 Precision Grade		0.5mm²	1.0mm²	1.5mm²	2.5mm²
SC&RC	G	0~100	± 60(± 5.0℃)	± 30(± 2.5℃)	1000	0.10	0.05	0.03	0.02
	H	0~200							
KCA	G	0~100	± 100(± 2.5℃)	± 60(± 1.5℃)	1000	1.40	0.70	0.47	0.28
	H	0~200			900				
KCB	G	0~100			900	1.04	0.52	0.35	0.21
KX	G	-20~100			900	2.20	1.10	0.73	0.44
	H	-25~200			900				
EX	G	-20~100	± 200(± 2.5℃)	± 120(± 1.5℃)	500	2.50	1.25	0.83	0.50
	H	-25~200			500				
JX	G	-20~100	± 140(± 2.5℃)	± 85(± 1.5℃)	500	1.30	0.65	0.43	0.26
	H	-25~200			500				
TX	G	-20~100	± 60(± 1.0℃)	± 30(± 0.5℃)	300	1.04	0.52	0.35	0.21
	H	25~200	± 90(± 1.5℃)	± 48(± 0.8℃)	300				
NC	G	0~100	± 100(± 2.5℃)	± 60(± 1.5℃)	900	1.50	0.75	0.50	0.30
	H	0~200			900				
NX	G	-20~100			900	2.86	1.43	0.95	0.57
	H	-25~200			900				

其它参数指标
Other Parameters

项 目 Items	单 位 Unit	参数指标 Indices	
		PVC 绝缘 PVC Insulation	F46 或 F 绝缘 F46 or F Insulation
绝缘电阻（20℃）≥ Insulation Resistance (20℃) ≥	MΩ · Km	25	500
电压试验 Voltage Test	V/1min	1000	
阻燃性能 Flame Resistance	由供需双方根据补偿电缆的使用条件按 GB/T18380-2001 标准商定 It depends on final both agreements based on GB/T18380-2001standard.		

规格尺寸 Sizes

补偿导线
Compensational Wire

芯数 × 标称截面(mm²) Core Number × Nominal Cross Section Area	导体种类 Conductor Material	最大外径 Max. Outer Diameter(mm)				计算重量 Calculated Weight (kg/km)			
		VV (ZR-VV)	VPV (ZR-VPV)	FF	FP_1F	VV (ZR-VV)	VPV (ZR-VPV)	FF	FP_1F
2 × 0.5	A	3.7 × 6.4	4.3 × 7.0	2.6 × 4.6	3.2 × 5.2	30	50	27	45
	R	3.9 × 6.6	4.5 × 6.6	2.8 × 4.8	3.4 × 5.4	35	55	30	50
2 × 1.0	A	5.0 × 7.7	5.6 × 8.3	3.0 × 5.3	3.6 × 5.9	56	82	39	64
	R	5.1 × 8.0	5.7 × 8.5	3.1 × 5.6	3.7 × 6.2	60	87	45	69
2 × 1.5	A	5.2 × 8.3	5.8 × 8.9	3.2 × 5.8	3.8 × 6.4	68	93	54	77
	R	5.5 × 8.7	6.1 × 9.1	3.4 × 6.2	4.0 × 6.8	75	102	60	87
2 × 2.5	A	5.7 × 9.3	6.3 × 9.5	3.6 × 6.7	4.2 × 7.3	94	121	77	103
	R	5.9 × 9.8	6.5 × 10.1	4.0 × 7.3	4.6 × 7.9	101	133	84	114

补偿电缆
Compensational Cable

芯数 × 标称截面(mm²) Core Number × Nominal Cross Section Area	导体种类 Conductor Material	最大外径 Max. Outer Diameter(mm)						计算重量 Calculated Weight (kg/km)					
		VV	VPV	FV	FP_1V	FF	FP_1F	VV	VPV	FV	FP_1V	FF	FP_1F
1 × 2 × 0.5	A	6.9	7.4	6.7	7.2	5.0	5.6	58	70	49	68	36	53
	R	7.3	7.7	7.0	7.4	5.2	5.8	59	73	52	73	38	56
1 × 2 × 1.0	A	8.7	9.1	7.4	7.8	5.8	6.3	87	107	64	86	50	70
	R	8.9	9.4	7.6	8.3	6.1	6.8	94	113	70	95	54	80
1 × 2 × 1.5	A	9.1	9.8	7.9	8.4	6.4	6.9	104	125	78	103	62	89
	R	9.6	10.5	8.1	8.8	6.6	7.4	109	131	83	110	72	95
1 × 2 × 2.5	A	10.0	10.7	8.8	9.2	7.4	7.8	129	153	106	133	92	117
	R	10.7	11.3	9.2	10.1	7.8	8.7	143	179	113	144	99	126
2 × 2 × 0.5	A	10.3	11.4	9.4	11.1	7.9	9.7	107	177	93	175	79	156
	R	10.6	12.0	9.5	11.4	8.1	10.0	115	186	98	183	84	164
2 × 2 × 1.0	A	13.0	15.0	10.5	12.2	9.0	11.0	175	282	128	220	112	207
	R	13.3	15.4	10.9	12.9	9.5	11.7	177	293	135	236	120	221
2 × 2 × 1.5	A	13.6	16.1	11.3	13.1	9.9	11.9	197	314	153	257	137	240
	R	15.1	16.8	11.9	14.4	10.7	13.0	226	338	174	294	158	277
2 × 2 × 2.5	A	15.8	17.5	12.8	15.2	11.6	13.6	277	388	211	346	198	325
	R	16.8	18.6	13.6	16.6	12.4	15.1	302	449	239	383	238	360
3 × 2 × 0.5	A	10.6	12.1	9.8	11.7	8.4	10.5	122	212	105	206	91	193
	R	11.2	12.7	10.0	12.1	8.6	10.9	134	220	110	210	96	204



续表

芯数×标称截面(mm²) Core Number × Nominal Cross Section Area	导体种类 Conductor Material	最大外径 Max. Outer Diameter(mm)						计算重量 Calculated Weight (kg/km)					
		VV	VPV	FV	FP_1V	FF	FP_1F	VV	VPV	FV	FP_1V	FF	FP_1F
3 × 2 × 1.0	A	14.4	15.8	11.0	13.0	9.6	11.8	217	336	156	272	139	254
	R	14.7	16.3	11.6	13.6	10.3	12.4	232	356	170	291	155	273
3 × 2 × 1.5	A	15.2	17.1	12.0	14.5	10.8	13.0	264	387	195	337	181	317
	R	16.0	17.8	12.5	15.3	11.3	13.8	278	411	214	362	198	344
3 × 2 × 2.5	A	16.7	18.6	13.5	16.1	12.3	14.5	338	485	273	434	256	412
	R	17.9	19.8	15.2	17.6	13.6	16.1	369	553	314	466	295	446
4 × 2 × 0.5	A	11.3	12.9	10.5	13.5	9.0	12.3	151	252	133	254	113	236
	R	12.0	14.5	10.7	14.7	9.2	13.2	160	283	139	265	119	248
4 × 2 × 1.0	A	15.4	16.9	11.8	15.6	10.6	14.1	262	410	187	342	172	322
	R	16.2	17.4	12.4	16.6	11.2	15.1	271	418	201	368	185	346
4 × 2 × 1.5	A	16.3	18.3	12.9	16.8	11.7	15.3	309	462	235	405	218	383
	R	18.3	19.1	13.5	17.8	12.3	16.3	330	487	270	431	250	408
4 × 2 × 2.5	A	18.0	20.6	14.5	18.8	13.6	17.3	404	612	348	521	327	497
	R	19.3	21.9	16.3	21.5	14.7	19.7	440	691	377	566	355	540
5 × 2 × 0.5	A	12.7	15.0	11.7	14.4	10.5	12.5	183	321	158	322	146	302
	R	13.4	15.78	11.9	14.9	10.7	13.6	196	343	172	337	156	319
5 × 2 × 1.0	A	17.3	18.9	13.1	16.1	11.9	14.5	318	485	230	410	214	392
	R	18.0	19.4	14.5	16.9	13.0	15.4	334	504	269	448	251	423
5 × 2 × 1.5	A	18.3	21.0	15.1	17.2	13.5	15.6	383	591	300	492	288	468
	R	19.3	22.0	15.8	18.2	14.3	16.6	405	624	332	524	311	499
5 × 2 × 2.5	A	20.9	23.0	17.1	19.1	15.5	17.6	531	750	434	640	411	612
	R	22.3	24.5	18.3	21.8	16.7	20.0	574	848	473	726	453	696
6 × 2 × 0.5	A	15.0	16.8	13.2	16.3	12.0	14.7	234	384	195	385	178	361
	R	15.8	17.7	13.5	16.8	12.3	15.3	250	410	209	406	192	383
6 × 2 × 1.0	A	19.7	22.1	15.5	18.0	14.0	16.5	382	609	304	503	283	473
	R	20.9	22.8	16.5	19.1	15.0	17.6	433	643	326	539	303	507
6 × 2 × 1.5	A	21.5	23.9	17.1	19.5	15.5	17.9	492	703	363	592	352	562
	R	22.7	25.1	18.0	21.2	16.5	19.5	521	756	405	659	381	634
6 × 2 × 2.5	A	23.9	26.6	19.4	22.4	17.8	20.7	641	870	527	798	502	767
	R	25.5	28.4	21.6	24.8	19.8	23.0	697	1048	603	870	573	836
7 × 2 × 0.5	A	15.2	17.1	13.4	16.5	12.2	15.0	248	413	207	411	187	388
	R	16.1	17.9	14.4	17.0	12.9	15.5	260	435	235	436	215	408
7 × 2 × 1.0	A	20.7	22.4	15.8	18.2	14.3	16.7	429	650	318	531	296	505
	R	21.2	23.1	16.8	19.4	15.3	17.9	445	675	341	572	318	545
7 × 2 × 1.5	A	21.9	24.3	17.3	19.7	15.7	18.2	514	750	398	631	375	606
	R	23.0	25.4	18.3	21.5	16.7	19.8	537	796	426	704	402	672
7 × 2 × 2.5	A	24.2	27.1	19.7	22.7	18.2	21.0	676	971	562	857	535	825
	R	26.0	28.8	21.9	25.2	20.1	23.4	727	1113	637	932	607	897
8 × 2 × 0.5	A	16.5	18.5	15.2	17.8	13.6	16.3	279	464	245	400	228	435
	R	17.5	19.5	15.6	18.5	14.1	16.9	294	485	263	483	242	457
8 × 2 × 1.0	A	22.4	24.4	17.2	19.8	15.6	18.3	480	730	357	595	333	568
	R	23.1	25.1	18.3	21.8	16.7	20.0	490	759	380	671	360	640
8 × 2 × 1.5	A	23.8	26.8	18.8	22.1	17.3	20.4	574	840	450	741	426	710
	R	25.1	28.2	20.6	23.4	18.8	21.7	604	922	508	792	480	760
8 × 2 × 2.5	A	26.8	29.5	22.1	24.8	20.4	23.0	786	1089	663	968	634	934
	R	28.8	31.5	23.9	27.8	22.4	25.4	844	1250	718	1074	686	1046
9 × 2 × 0.5	A	17.3	19.5	16.0	18.7	14.4	17.2	300	509	273	503	252	478
	R	18.4	21.1	16.4	19.5	14.9	17.9	321	559	288	530	266	505
9 × 2 × 1.0	A	23.7	25.7	18.0	21.5	16.5	19.7	527	802	391	680	369	651
	R	24.3	26.8	19.3	22.9	17.7	21.1	542	859	423	735	398	703
9 × 2 × 1.5	A	25.1	28.3	19.8	23.2	18.2	21.5	633	955	497	816	472	783
	R	27.0	29.7	21.7	24.6	19.9	22.9	686	1010	560	866	530	837
9 × 2 × 2.5	A	28.3	31.1	23.3	26.5	21.6	24.3	866	1201	734	1091	703	1064
	R	30.5	33.2	25.2	29.4	23.4	26.8	932	1423	795	1186	761	1157

续表

芯数×标称截面(mm²) Core Number × Nominal Cross Section Area	导体种类 Conductor Material	最大外径 Max. Outer Diameter(mm)						计算重量 Calculated Weight (kg/km)					
		VV	VPV	FV	FP_1V	FF	FP_1F	VV	VPV	FV	FP_1V	FF	FP_1F
10 × 2 × 0.5	A	17.5	19.5	16.1	18.8	14.5	17.3	324	541	293	540	271	514
	R	18.5	21.2	16.5	19.6	15.0	17.9	346	599	310	570	287	543
10 × 2 × 1.0	A	23.8	25.8	18.1	21.6	16.6	19.8	566	862	423	735	400	701
	R	24.5	26.9	19.4	23.0	17.8	21.1	584	922	458	791	433	758
10 × 2 × 1.5	A	25.2	28.4	19.8	23.3	18.2	21.6	684	1027	538	878	514	844
	R	27.1	29.8	21.8	24.7	20.0	22.9	742	1085	606	934	575	903
10 × 2 × 2.5	A	28.5	31.2	23.4	26.6	21.7	24.4	941	1296	797	1180	767	1152
	R	30.6	33.3	25.3	29.5	23.5	26.8	1009	1536	863	1279	827	1250
12 × 2 × 0.5	A	18.5	21.5	17.1	20.7	15.5	18.9	372	641	336	636	313	617
	R	19.7	22.6	17.6	21.5	16.1	19.7	396	680	354	681	332	650
12 × 2 × 1.0	A	25.2	27.5	19.4	23.0	17.8	21.2	647	1014	490	843	465	811
	R	26.5	28.7	21.3	24.4	19.6	22.7	697	1054	557	908	526	874
12 × 2 × 1.5	A	27.3	30.1	21.9	24.9	20.1	23.1	812	1191	655	1014	625980	
	R	28.8	31.8	23.2	26.8	21.5	25.1	856	1254	700	1119	668	1091
12 × 2 × 2.5	A	30.4	33.3	25.0	28.4	23.2	26.2	1086	1541	929	1367	896	1339
	R	32.7	35.6	26.5	31.5	25.9	28.9	1167	1767	1030	1404	1011	1455
14 × 2 × 0.5	A	20.6	22.9	18.3	22.1	--	--	420	736	380	732	--	--
	R	21.9	24.2	18.9	22.9	--	--	473	770	401	769	--	--
14 × 2 × 1.0	A	27.7	30.1	21.5	24.6	--	--	763	1161	588	960	--	--
	R	28.6	30.9	22.9	26.7	--	--	792	1199	634	1061	--	--
14 × 2 × 1.5	A	29.4	32.6	23.5	27.2	--	--	925	1379	749	1183	--	--
	R	31.0	34.2	25.0	28.8	--	--	975	1459	801	1266	--	--
14 × 2 × 2.5	A	32.8	35.9	27.2	30.5	--	--	1241	1762	1090	1564	--	--
	R	35.2	38.8	28.7	33.8	--	--	1335	2063	1180	1734	--	--
16 × 2 × 0.5	A	21.5	23.9	19.0	23.0	--	--	501	820	427	815	--	--
	R	22.8	25.2	19.7	23.9	--	--	528	860	453	861	--	--
16 × 2 × 1.0	A	28.9	31.4	22.3	25.6	--	--	855	1300	663	1075	--	--
	R	29.8	32.2	23.9	27.8	--	--	893	1380	715	1186	--	--
16 × 2 × 1.5	A	30.7	34.0	24.5	28.3	--	--	1050	1546	845	1328	--	--
	R	32.5	35.8	26.5	30.0	--	--	1100	1648	927	1418	--	--
16 × 2 × 2.5	A	34.2	38.0	28.5	31.8	--	--	1408	1982	1237	1796	--	--
	R	36.7	40.6	30.9	35.3	--	--	1516	2326	1341	1956	--	--
19 × 2 × 0.5	A	23.2	25.7	21.2	24.9	--	--	571	936	517	934	--	--
	R	24.6	27.6	22.0	25.7	--	--	598	1005	546	985	--	--
19 × 2 × 1.0	A	31.4	34.0	24.2	28.0	--	--	978	1528	758	1263	--	--
	R	32.9	34.9	25.9	30.0	--	--	1008	1577	818	1361	--	--
19 × 2 × 1.5	A	33.3	36.9	27.0	30.6	--	--	1193	1773	998	1528	--	--
	R	35.8	39.3	28.7	32.5	--	--	1254	1920	1065	1665	--	--
19 × 2 × 2.5	A	37.2	41.2	30.9	34.4	--	--	1615	2317	1420	2072	--	--
	R	40.5	44.1	33.6	38.7	--	--	1763	2677	1543	2284	--	--

订货须知

1、订货时务必注明产品名称、型号、对数、耐温等级、数量等;

2、成品电缆成圈长度为100m，成盘长度应不小于100m，长度计量误差不超过0.5%;

3、根据双方协议允许任何长度交货。

Notices in Ordering:

1. The cale description, type, pair number, heat-resistant class,and quantity should be indicated in ordering.
2. The finished cable in coil should be 100 meters long, and that on drum should be no shorter than 100 meters with allowed length error no more than 0.5%.
3. It depends on final both agreements.



氟塑料绝缘聚氯乙烯护套耐高温控制电缆

Heat-resistant Control Cable with Fluoroplastics Insulation & PVC Sheath

本产品适用于交流额定电压450/750V及以下，作电器仪表及自动化控制系统的信号传输线。

生产执行标准
企业标准

It is used as signal-transmitting cable for electrical appliances, instruments and automatic control system of A.C. rated voltage 450/750V or lower.

Executive Standard:
as the enterprise's standard

使用条件

1.工作温度：导体长期工作温度不超过200℃，环境温度不超过105℃；
2.额定电压 U_0/U：450/750V；
3.最低环境温度：固定敷设 - 40℃；非固定敷设 - 15℃；
4.最小弯曲半径：非铠装电缆不小于电缆外径的6倍；铠装电缆不小于电缆外径的12倍。

Working Conditions:

1.The long-term working temperature of conductor should be no higher than 200℃, and ambient temperature should be no lower than105℃;
2.Rated Voltage U_0/U: 450/750V;
3.The lowest environment temperature: -40℃ for fixedly laying; -15℃ for non-fixed installation.
4.Min. Bending Radius:It should be no less than 6 times that of cable outer diameter for the cable without armor,and 12 times that of cable outer diameter for armored cable.

型号、名称、用途　Type, Description & Application

型号 Type	名称 Description	用途 Application
KFV	铜芯氟塑料绝缘105℃阻燃聚氯乙烯护套控制电缆 Control cable with Cu core, fluoroplastics insulation & 105℃flame-retardant PVC sheath	敷设在环境温度为-40~105℃场合中 To be laid in the environment with temperature of -40~105℃
KFP1V	铜芯氟塑料绝缘105℃阻燃聚氯乙烯护套屏蔽控制电缆 Control cable with Cu core, fluoroplastics insulation, 105℃flame-retardant PVC sheath & shielding	
KFV22	铜芯氟塑料绝缘105℃阻燃聚氯乙烯护套钢带铠装控制电缆 Control cable with Cu core, fluoroplastics insulation, 105℃flame-retardant PVC sheath & steel tape armor	
XKFV	镀锡铜芯氟塑料绝缘105℃阻燃聚氯乙烯护套控制电缆 Control cable with tinned Cu core, fluoroplastics insulation & 105℃flame-retardant PVC sheath	
XKFP1V	镀锡铜芯氟塑料绝缘105℃阻燃聚氯乙烯护套屏蔽控制电缆 Control cable with tinned Cu core, fluoroplastics insulation, 105℃flame-retardant PVC sheath & shielding	
XKFV22	镀锡铜芯氟塑料绝缘105℃阻燃聚氯乙烯护套钢带铠装控制电缆 Control cable with tinned Cu core, fluoroplastics insulation, 105℃flame-retardant PVC sheath & steel tape armor	

注：K-- 控制电缆系列代号；F--F46 绝缘；P1-- 镀锡铜丝屏蔽；X-- 镀锡铜导体；105--105℃阻燃型PVC塑料。

Remarks: K--control cable code; F--F46 insulation; P1--shielding of tinned Cu -wire; X--tinned Cu conductor;105--105℃flameretardant PVC

技术指标应符合　Technical Demands

项目 Items		技术指标 Technical Indices									
导体直流电阻 D.C. Conductor Resistance		0.5mm²		0.75mm²		1.0mm²		1.5mm²		2.5mm²	
	镀层 Plating layer	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned
20℃ (Ω/km)	A、B类 Type A, B	36.0	36.7	24.5	24.8	18.1	18.2	12.1	12.2	7.41	7.56
	R类 Type R	39.0	40.1	26.0	26.7	19.5	20.0	13.3	13.7	7.98	8.21

试验电压 Testing Voltage (V/1min)	2500
绝缘电阻 Insulation Resistance (MΩ · km)	20℃时≥ 500 ≥ 500 at 20℃
阻燃性能 Flame-retardant Performance	高于 C 级 higher than Class C

产品规格 Specifications

导体结构 Condutor Structure / 导体种类 Conductor Category	导体标称面(mm²) Nominal Cross-section Area of Conductor					芯 数 Core Numbers
	0.5	0.75	1.0	1.5	2.5	推荐芯数为: 2、3、4、5、6、7、8、9、10、12、14、16、18、19、20、24、27、30、37、44、48、52、61、等 Core number recommended: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 19, 20, 24, 27, 30, 37, 44, 48, 52, 61, etc.
A	1/0.8	1/0.97	1/1.13	1/1.38	1/1.78	
B	7/0.3	7/0.37	7/0.43	7/0.52	7/0.68	
R	16/0.2	24/0.2	32/0.2	30/0.25	49/0.25	

电缆规格尺寸 Cable Specification & Size

芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm²)	导体结构 Conductor Structure	电缆近似外径 Approximate Cable Outer Diameter (mm)		近似重量 Approximate Weight(kg/km)	
		KFV XKFV	KFP_1V $XKFP_1V$	KFV XKFV	KFP_1V $XKFP_1V$
2 × 0.5	A	6.2	7.0	43	62
	B	6.4	7.2	45	65
	R	6.5	7.4	46	66
2 × 0.75	A	6.6	7.5	50	70
	B	6.8	7.7	54	76
	R	6.9	7.8	55	78
2 × 1.0	A	6.8	7.7	56	80
	B	7.3	8.1	60	86
	R	7.4	8.2	62	87
2 × 1.5	A	7.6	8.5	73	99
	B	8.5	9.4	78	105
	R	8.6	9.6	79	108
2 × 2.5	A	8.8	9.7	105	136
	B	9.6	10.5	113	147
	R	9.7	10.6	115	150
3 × 0.5	A	6.4	7.2	53	72
	B	6.7	7.5	56	78
	R	6.8	7.7	58	80
3 × 0.75	A	6.8	7.7	62	84
	B	7.2	8.0	67	90
	R	7.3	8.2	68	92
3 × 1.0	A	7.3	8.2	72	96
	B	7.6	8.5	77	104
	R	7.7	8.7	80	106
3 × 1.5	A	7.9	8.8	95	121
	B	8.9	9.8	101	130
	R	9.0	10.0	103	132
3 × 2.5	A	9.4	10.2	138	173
	B	10.1	11.1	149	197
	R	10.2	11.3	151	200



续表

芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体结构 Conductor Structure	电缆近似外径 Approximate Cable Outer Diameter (mm)		近似重量 Approximate Weight(kg/km)	
		KFV XKFV	KFP_1V $XKFP_1V$	KFV XKFV	KFP_1V $XKFP_1V$
4 × 0.5	A	6.8	7.7	63	86
	B	7.2	8.0	66	90
	R	7.3	8.2	67	91
4 × 0.75	A	7.6	8.3	77	99
	B	7.7	8.6	81	108
	R	7.8	8.7	82	109
4 × 1.0	A	7.8	8.7	88	116
	B	8.2	9.0	95	123
	R	8.2	9.2	97	126
4 × 1.5	A	8.6	9.5	118	148
	B	9.7	10.6	125	157
	R	9.8	11.0	127	159
4 × 2.5	A	10.2	11.1	174	222
	B	11.0	11.9	187	239
	R	11.2	12.1	190	241
5 × 0.5	A	7.3	8.3	76	100
	B	7.7	8.6	80	107
	R	7.8	8.7	81	108
5 × 0.75	A	7.9	8.6	91	118
	B	8.3	9.2	98	127
	R	8.4	9.2	99	128
5 × 1.0	A	8.4	9.2	107	136
	B	8.8	9.7	114	145
	R	8.9	9.9	117	148
5 × 1.5	A	9.2	10.2	145	179
	B	10.5	11.3	154	189
	R	10.7	11.5	156	202
5 × 2.5	A	11.2	12.0	217	270
	B	12.0	12.9	232	290
	R	12.2	13.1	235	293
6 × 0.5	A	7.9	8.9	89	115
	B	8.3	9.1	93	122
	R	8.4	9.2	95	124
6 × 0.75	A	8.5	9.4	106	135
	B	8.9	9.8	114	145
	R	9.0	9.9	116	147
6 × 1.0	A	9.0	9.9	125	157
	B	9.6	10.5	133	168
	R	9.7	10.7	138	172
6 × 1.5	A	10.0	10.9	170	218
	B	11.3	12.2	180	233
	R	11.5	12.4	183	235
6 × 2.5	A	12.0	12.9	257	317
	B	13.0	14.5	277	340
	R	13.1	14.7	280	342
7 × 0.5	A	7.9	8.9	92	119
	B	8.3	9.2	96	126
	R	8.4	9.2	99	132
7 × 0.75	A	8.5	9.4	113	141
	B	8.9	9.8	121	152
	R	9.0	9.9	123	154
7 × 1.0	A	9.0	9.9	134	166
	B	9.6	10.5	143	178
	R	9.7	10.7	148	183

续表

芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体结构 Conductor Structure	电缆近似外径 Approximate Cable Outer Diameter (mm)		近似重量 Approximate Weight(kg/km)	
		KFV XKFV	KFP_1V $XKFP_1V$	KFV XKFV	KFP_1V $XKFP_1V$
7 × 1.5	A	10.0	10.9	183	230
	B	11.3	12.2	194	246
	R	11.5	12.4	197	249
7 × 2.5	A	12.0	12.9	279	339
	B	13.0	14.5	301	364
	R	13.1	14.7	296	369
8 × 0.5	A	8.4	9.2	103	131
	B	8.7	9.6	108	139
	R	8.9	9.8	109	141
8 × 0.75	A	9.0	9.9	125	157
	B	9.5	10.3	135	170
	R	9.7	10.6	138	172
8 × 1.0	A	9.7	10.6	150	185
	B	10.2	11.1	161	209
	R	10.3	11.3	166	213
8 × 1.5	A	10.8	11.7	206	258
	B	12.2	13.2	218	273
	R	12.4	13.4	222	278
8 × 2.5	A	12.9	14.4	314	398
	B	14.6	15.5	359	428
	R	14.7	15.7	353	422
9 × 0.5	A	9.0	9.9	115	145
	B	9.5	10.3	120	154
	R	9.7	10.6	122	157
9 × 0.75	A	9.9	10.8	140	175
	B	10.2	11.1	151	199
	R	10.5	11.3	154	203
9 × 1.0	A	10.5	11.3	169	216
	B	11.1	12.0	180	234
	R	11.3	12.3	185	240
9 × 1.5	A	11.7	12.5	232	290
	B	12.3	14.9	245	308
	R	12.5	15.2	249	312
9 × 2.5	A	14.9	15.7	376	443
	B	16.2	16.9	400	475
	R	16.3	17.2	394	468
10 × 0.5	A	9.6	10.5	126	159
	B	10.0	10.9	130	178
	R	10.2	11.2	133	181
10 × 0.75	A	10.9	11.2	153	201
	B	11.1	11.8	166	218
	R	11.3	12.1	169	223
10 × 1.0	A	11.2	12.0	185	237
	B	11.3	12.7	198	255
	R	11.5	13.0	204	263
10 × 1.5	A	12.4	13.3	254	316
	B	12.9	15.7	270	355
	R	15.0	16.0	272	360
10 × 2.5	A	15.6	16.5	411	487
	B	17.1	17.9	443	521
	R	17.3	18.3	436	514
12 × 0.5	A	9.8	10.7	144	178
	B	10.3	11.2	150	198
	R	10.6	11.4	153	203



续表

芯数×标称截面 mm² Core Number × Nominal Cross-section Area (mm²)	导体结构 Conductor Structure	电缆近似外径 mm Approximate Cable Outer Diameter (mm)		近似重量 kg/km Approximate Weight(kg/km)	
		KFV XKFV	KFP_1V $XKFP_1V$	KFV XKFV	KFP_1V $XKFP_1V$
12 × 0.75	A	10.6	11.5	177	227
	B	11.2	12.3	187	241
	R	11.4	12.3	194	249
12 × 1.0	A	11.4	13.0	213	268
	B	12.2	13.3	238	288
	R	12.4	13.6	235	296
12 × 1.5	A	12.8	16.2	294	376
	B	15.3	16.5	330	401
	R	15.7	17.2	340	408
12 × 2.5	A	16.2	18.5	477	556
	B	17.6	18.8	516	595
	R	17.8	11.2	525	605
14 × 0.5	A	10.2	11.7	162	208
	B	10.8	12.0	168	221
	R	11.0	12.0	173	227
14 × 0.75	A	11.1	12.7	201	253
	B	11.8	13.0	216	273
	R	12.0	12.9	221	280
14 × 1.0	A	12.0	13.5	242	299
	B	12.7	13.8	259	324
	R	12.9	15.0	268	350
14 × 1.5	A	13.4	16.3	335	423
	B	16.2	17.2	378	449
	R	16.3	17.9	382	458
14 × 2.5	A	17.2	19.4	549	628
	B	18.5	19.7	586	652
	R	18.7	11.7	594	661
16 × 0.5	A	10.8	12.2	182	234
	B	11.2	12.5	191	245
	R	11.6	12.5	200	255
16 × 0.75	A	11.7	13.2	226	281
	B	12.3	13.5	246	307
	R	12.5	13.4	254	311
16 × 1.0	A	12.5	14.9	275	337
	B	13.3	15.2	294	378
	R	13.5	15.6	303	392
16 × 1.5	A	14.7	17.7	407	474
	B	16.8	18.0	428	503
	R	17.1	18.3	437	511
16 × 2.5	A	17.9	20.9	621	707
	B	19.6	21.2	668	779
	R	19.9	12.2	677	785
18 × 0.5	A	11.3	12.8	203	256
	B	11.9	13.1	213	270
	R	12.1	13.2	220	278
18 × 0.75	A	12.3	14.5	252	312
	B	13.0	14.8	273	355
	R	13.2	14.7	278	363
18 × 1.0	A	13.2	15.6	307	380
	B	14.7	15.9	346	415
	R	14.9	16.7	358	427
18 × 1.5	A	15.5	18.6	449	523
	B	17.7	19.0	476	556
	R	18.0	19.7	487	564

续表

芯数 × 标称截面 Core Numbe × Nominal Cross-section Area (mm^2)	导体结构 Conductor Structure	电缆近似外径 Approximate Cable Outer Diameter (mm)		近似重量 Approximate Weight(kg/km)	
		KFV XKFV	KFP_1V $XKFP_1V$	KFV XKFV	KFP_1V $XKFP_1V$
18 × 2.5	A	18.8	19.7	693	804
	B	21.8	21.8	766	868
	R	22.0	22.2	753	854
19 × 0.5	A	11.3	12.2	207	260
	B	11.9	12.8	217	274
	R	12.1	13.0	220	280
19 × 0.75	A	12.3	13.2	259	319
	B	13.0	14.5	280	362
	R	13.2	14.7	285	370
19 × 1.0	A	13.2	14.7	315	398
	B	14.7	15.6	357	427
	R	15.0	15.9	369	439
19 × 1.5	A	15.5	16.7	461	535
	B	17.7	18.6	489	570
	R	18.0	19.0	501	578
19 × 2.5	A	18.8	19.7	716	826
	B	20.9	21.8	790	891
	R	21.2	22.1	801	878
20 × 0.5	A	11.6	12.4	216	272
	B	12.1	13.0	226	286
	R	12.4	13.3	231	292
20 × 0.75	A	12.5	13.4	270	332
	B	13.2	14.7	292	370
	R	13.5	15.1	297	385
20 × 1.0	A	13.5	15.1	330	416
	B	15.1	16.0	376	443
	R	15.3	16.3	385	461
20 × 1.5	A	15.8	16.7	486	560
	B	18.2	19.0	517	596
	R	18.5	19.3	524	602
20 × 2.5	A	19.3	20.6	750	867
	B	21.5	22.3	828	931
	R	21.7	22.6	833	946
24 × 0.5	A	13.0	14.5	256	337
	B	13.6	15.2	269	358
	R	14.6	15.5	293	362
24 × 0.75	A	14.9	15.7	340	409
	B	15.6	16.5	369	443
	R	16.0	17.0	375	451
24 × 1.0	A	15.8	16.7	414	488
	B	16.9	17.8	444	523
	R	17.2	18.3	459	539
24 × 1.5	A	17.9	18.8	575	660
	B	21.0	21.9	610	721
	R	21.4	22.4	618	734
24 × 2.5	A	22.3	23.2	919	1026
	B	24.2	25.1	985	1102
	R	24.4	25.5	967	1088
27 × 0.5	A	13.2	14.7	282	365
	B	14.6	15.5	315	386
	R	15.0	15.8	322	391
27 × 0.75	A	15.2	16.1	375	445
	B	16.0	16.8	405	481
	R	16.3	17.2	416	490



续表

芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体结构 Conductor Structure	电缆近似外径 Approximate Cable Outer Diameter (mm)		近似重量 Approximate Weight(kg/km)	
		KFV XKFV	KFP_1V $XKFP_1V$	KFV XKFV	KFP_1V $XKFP_1V$
27 × 1.0	A	16.3	17.2	456	532
	B	17.3	18.1	491	570
	R	17.6	18.4	503	587
27 × 1.5	A	18.5	19.2	633	723
	B	21.5	22.3	672	792
	R	21.8	22.7	700	804
27 × 2.5	A	22.8	23.7	1015	1126
	B	24.9	25.7	1090	1210
	R	25.2	26.0	1110	1190
30 × 0.5	A	14.4	15.3	329	396
	B	15.2	16.0	343	414
	R	15.4	16.3	349	426
30 × 0.75	A	15.6	16.5	408	485
	B	16.5	17.4	443	521
	R	16.8	17.7	453	532
30 × 1.0	A	16.8	17.7	500	578
	B	17.8	18.7	532	620
	R	18.0	19.0	552	637
30 × 1.5	A	18.9	19.8	697	807
	B	22.2	23.2	758	862
	R	22.5	23.5	772	875
30 × 2.5	A	23.7	24.5	1115	1232
	B	25.7	27.3	1199	1368
	R	26.0	27.6	1220	1380
37 × 0.5	A	15.4	16.3	392	467
	B	16.2	17.2	413	485
	R	16.5	17.4	415	494
37 × 0.75	A	16.6	17.5	488	567
	B	17.7	18.6	530	616
	R	18.0	18.9	541	626
37 × 1.0	A	18.0	18.9	600	686
	B	19.3	20.6	641	752
	R	19.6	20.9	661	778
37 × 1.5	A	20.8	21.7	861	964
	B	23.9	24.8	917	1023
	R	24.3	253	932	1040
37 × 2.5	A	25.4	27.0	1347	1509
	B	28.4	29.3	1490	1622
	R	28.6	29.6	1510	1645

注1、以上外形尺寸为推荐的芯数，如用户需要其它芯数（规格）尺寸另提供;

2、本公司还制造聚四氟薄膜绕包，玻璃丝编织烧结，阻燃105°聚氯乙烯护套控制电缆。

Remarks:1.Besides the specifications indicated above, we also produce the cable of other specifications.

2.We also produce control cable with wrapping PTFE film, sintered glass wire braiding, and 105°flame-retardant PVC sheath.

交货要求

1.14芯及以下为1000m，14芯以上为500 m，允许30m以上的短线段交货，数量不超过交货总长度的10%，长度计量误差为 ± 0.5%。

2.有特殊要求供需双方可另行协商。

Cable Length:

1.It should be 1000m for the cable with 14 cores or less, and 500m for that with more than 14 cores. Pieces of cable longer than 30m are allowed for delivery which account for no more than 10% of the total length with allowed length error no more than ±0.5%.

2.We may produce the cable as user's special demand.

氟塑料绝缘和护套耐高温(控制)电缆

Heat-resistant (Control) Cable with Fluoroplastics Insulation & Sheath

本产品适用于石油、化工、发电、冶金等工矿企业，在高温、低温和酸、碱、油、水及腐蚀气体的恶劣环境中作电器仪表和自动化控制系统的信号传输线。

It is used to transmit signal for electric appliances, instruments and automatic control system in bad environment of extreme temperature, or with acid, alkali, oil or gas corrosion in petroleum, chemical, power, and metallurgy enterprises.

生产执行标准
采用企业标准。

Executive Standard
as the enterprise's standard

使用条件

1.工作温度： KFF-200、KFP_1F-200、KFP_1F22-200、KFF22-200型不超过200℃；KFF-260、KFP_1F-260、KFF22-260、KFP_1F22-260 型不超过 260℃；

2.额定电压 U0/U：450/750V 及以下；

3.最低环境温度：固定敷设 60℃，非固定敷设 -20℃；

4.最小弯曲半径：KFF 型应不小于电缆外径的 10 倍；KFF22、KFP_1F、KFP_1F22 型应不小于电缆外径的 12 倍。

Working Conditions

1.Working Temperature: no higher than 200℃ for KFF-200, KFP_1F-200, KFP_1F22-200, KFF22-200 types;no higher than 260℃ for KFF-260, KFPF-260, KFF22-260, KFP_1F22-260 types

2.Rated Voltage U0/U: 450/750V or lower;

3.Min. Ambient Temperature: 60℃ for fixed installation;-20℃ for non-fixed installation;

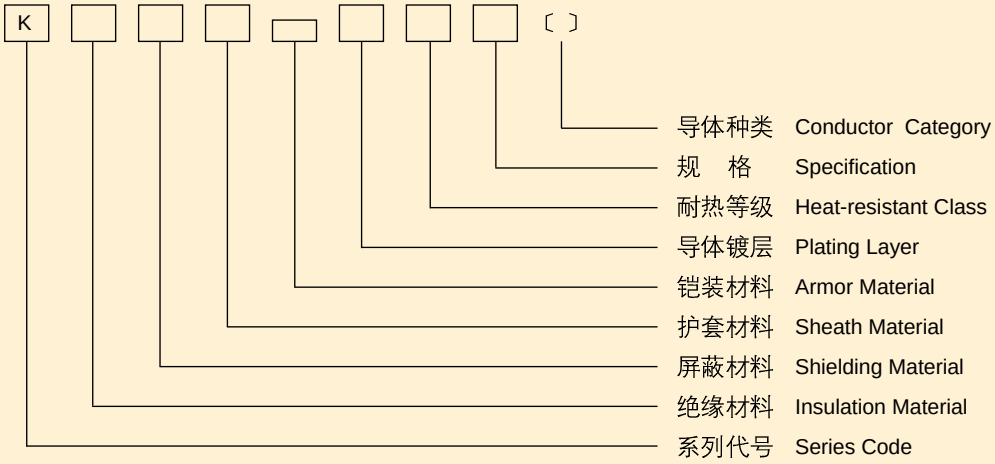
4.Min. Bending Radius: no less than 10 times that of cable outer diameter forKFFtype cable; no less than 12 times that of cable outer diameter for KFF22, KFP_1F, KFP_1F22 types cables

型号、名称 Type & Description

型 号 Type	名 称 Description	备 注 Remarks
KFF-200	F_{46} 绝缘和护套耐高温电缆 Heat-resistant Cable with F46 Insulation & Sheath	长期工作温度 200℃ Long-term Working Temperature 200℃
KFP_1F-200	F_{46} 绝缘和护套屏蔽耐高温电缆 Shielded Heat-resistant Cable with F_{46} Insulation& Sheath	
KFF22-200	F_{46} 绝缘和护套钢带铠装耐高温电缆 Heat-resistant Cable with F_{46} Insulation & Sheath, Steel Tape Armor	
KFP_1F22-200	F_{46} 绝缘和护套钢带铠装屏蔽耐高温电缆 Shielded Heat-resistant Cable wih F46 Insulation & Sheath, Steel Tape Armor	
KFF-260	PFA 绝缘和护套耐高温电缆 Heat-resistant Cable with PFA Insulation & Sheath	长期工作温度 260℃ Long-term Working Temperature 260℃
KFP_1F-260	PFA 绝缘和护套屏蔽耐高温电缆 Shielded Heat-resistant Cable with PFA Insulation & Sheath	
KFF22-260	PFA 绝缘和护套钢带铠装耐高温电缆 Heat-resistant Cable with PFA Insulation & Sheath, Steel Tape Armor	
KFP_1F22-260	PFA 绝缘和护套钢带铠装屏蔽耐高温电缆 Shielded Heat-resistant Cable with PFA Insulation & Sheath, Steel Tape Armor	



1、型号结构组合型式： Type Naming Indication



2、型号用字母、数字代号的含义 Codes Meanings

项 目 Items	代号 Code	含 义 Meanings
系列代号 Series Code	K	控制电缆 Control Cable
绝缘材料 Insulation Material	F	聚全氟乙丙烯(F_{46})最高工作温度 200℃ (F_{46}) Max. Working Temperature 200℃
		可熔性聚四氟乙烯(PFA)最高工作温度 260℃ (PFA) Max. Working Temperature 260℃
屏蔽材料 Shield Material	P_1	镀锡铜丝编织屏蔽(无屏蔽可省略) Braided Tinned Cu Wire (no code for that without shielding)
护套材料 Sheath Material	F	聚全氟乙丙烯(F_{46})最高工作温度 200℃ (F_{46}) Max. Working Temperature 200℃
		可熔性聚四氟乙烯(PFA)最高工作温度 260℃ (PFA) Max. Working Temperature 260℃
铠装材料 Armor Material	22	钢带铠装 Steel Tape Armor
导体镀层 Conductor Plating Layer	X	镀锡导体 Tinned Conductor
	Y	镀银导体 Silver-plated Conductor
耐热等级 Heat-resistant Class	200	最高工作温度 200℃ Max. Working Temperature 200℃
	260	最高工作温度 260℃ Max. Working Temperature 260℃
规 格 Specification		填写芯数 × 导体截面(N × S) N: 2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52、 S: 0.2、0.35、0.5、0.75、1.0、1.5、2.5、4、6(mm^2) Core Number × Nominal Cross-section Area (N × S) N: 2, 3, 4, 5, 7, 8, 10, 12, 14, 16, 19, 24, 27, 30, 37, 44, 48, 52,61 S: 0.2, 0.35, 0.5, 0.75, 1.0, 1.5, 2.5, 4, 6 (mm^2)
导体种类 (在括号内填写) Conductor Structure (in brackets)	A	单根导体 Single Strand Conducto
	B	七根绞合导体 7 Strands Conductor
	R	多股绞合软导体 Multi-strand Soft Conductor

例 1: 10 芯 1.5mm^2 镀锡铜线 A 类导体 F46 绝缘和护套钢带铠装镀锡铜线屏蔽高温电缆表示为: KFP1F22X -200 10 × 1.5（A）

例2 10芯1.5mm^2镀银B类导体, PFA绝缘和护套耐高温电缆表示为: KFFY-260 10 × 1.5（B）

for example: Heat-resistant cable with 10 cores of 1.5mm^2 tinned Cu wire of structure A, F46 insualtion & sheath, steel tape armor & shielding of tinned Cu wire is described as: KFP1F22X-200 10 × 1.5 (A)

for example: Heat-resistant cable with 10 cores of 1.5mm^2 silver plated conductor of structure B, and PFA insulation & sheath is described as: KFFY 260 10 × 1.5(B)

技术指标 Technical Indices

项目 Items			技术指标 Technical Indices													
导体直流电阻(20℃) D.C. Conductor Resistance (20℃)	截面 Cross-section Area (mm²) / 电阻 (Ω/km) Resistance (Ω/km) / 导体 Conductor		0.5		0.75		1.0		1.5		2.5		4		6	
			不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned	不镀锡 Non tinned	镀锡 Tinned
	导体种类 Conductor Category	AB 类	36.0	36.7	24.5	24.8	18.1	18.2	12.1	12.2	7.41	7.56	4.61	4.70	3.08	3.11
		R 类	39.0	40.1	26.0	26.7	19.5	20.0	13.3	13.7	7.98	8.21	4.95	5.09	3.30	3.39
试验电压 Testing Voltage	额定电压 450/750V，试验电压 2500V，1min; 额定电压 300/500V 及以下，试验电压 2000V，1min Rated voltage 450/750V, testing voltage 2500V, 1minute; Rated voltage 300/500V or lower, testing voltage 2000V, 1minute															
绝缘电阻 Insulation Resistance	20℃时≥ 500M Ω · km ≥ 500M Ω · km at 20℃															

电缆的规格、结构尺寸 Cable Specifications & Structural Sizes

KFF-200(260)、KFP$_1$F-200(260)型
KFF-200(260), KFP$_1$F-200(260) types

芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm²)	导体种类 Conductor Category	电缆最大外径(mm) Max. Cable Outer Diameter (mm) KFF-200 KFF-260	电缆最大外径(mm) Max. Cable Outer Diameter (mm) KFP$_1$F-200 KFP$_1$F-260	芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm²)	导体种类 Conductor Category	电缆最大外径 Max. Cable βouter Diameter (mm) KFF-200 KFF-260	电缆最大外径 Max. Cable βouter Diameter (mm) KFP$_1$F-200 KFP$_1$F-260
2 × 0.5	A	4.8	5.6	4 × 2.5	A	9.2	10.3
	B	5.0	5.8		B	10.2	11.1
	R	5.2	6.0		R	10.5	11.4
2 × 0.75	A	5.2	6.0	4 × 4	A	11.7	12.8
	B	5.8	6.0		B		
	R	6.1	7.2		R	11.9	13.0
2 × 1.0	A	5.8	6.6	4 × 6	B	13.5	14.4
	B	6.2	7.2		R	13.9	14.8
	R	6.4	7.4				
2 × 1.5	A	6.9	7.6	5 × 0.5	A	6.0	7.0
	B	7.3	8.0		B	6.3	7.3
	R	7.4	8.3		R	6.9	7.6
2 × 2.5	A	7.9	8.9	5 × 0.75	A	6.9	7.6
	B	8.5	9.5		B	7.5	8.4
	R	8.8	9.8		R	8.0	8.9



续表

芯数×标称截面 Core Number × Nominal Cross-section Area (mm²)	导体种类 Conductor Category	电缆最大外径 Max. Cable Outer Diameter (mm)		芯数×标称截面 Core Number × Nominal Cross-section Area (mm²)	导体种类 Conductor Category	电缆最大外径 Max. Cable Outer Diameter (mm)	
		KFF-200 KFF-260	KFP_1F-200 KFP_1F-260			KFF-200 KFF-260	KFP_1F-200 KFP_1F-260
2 × 4	B	9.9	11.0	5 × 1.0	A	7.5	8.4
	R	10.3	11.2		B	8.0	9.0
					R	8.4	9.4
2 × 6	B	11.4	12.5	5 × 1.5	A	8.6	9.6
	R	11.7	12.8		B	9.2	10.3
					R	9.4	10.5
3 × 0.5	A	5.1	5.9	5 × 2.5	A	10.2	11.1
	B	5.3	6.1		B	11.1	12.0
	R	5.5	6.3		R	11.4	12.5
3 × 0.75	A	5.5	6.2	5 × 2.5	A	10.2	11.1
	B	6.1	7.1		B	11.1	12.0
	R	6.5	7.5		R	11.4	12.5
3 × 1.0	A	6.1	7.1	5 × 4	B	13.0	13.9
	B	6.5	7.5		R	13.3	14.2
	R	7.1	7.8				
3 × 1.5	A	7.2	7.8	5 × 6	B	14.8	15.7
	B	7.7	8.6		R	15.2	16.1
	R	7.8	8.7				
3 × 2.5	A	8.3	9.3	7 × 0.5	A	6.5	7.5
	B	9.1	10.2		B	7.1	7.8
	R	9.4	10.5		R	7.4	8.3
3 × 4	B	10.7	11.6	7 × 0.75	A	7.4	8.3
	R	10.9	11.8		B	8.1	9.1
					R	8.6	9.6
3 × 6	B	12.1	13.2	7 × 1.0	A	8.1	9.1
	R	12.7	13.6		B	8.7	9.7
					R	9.2	10.3
4 × 0.5	A	5.5	6.3	7 × 1.5	A	9.4	10.4
	B	5.8	6.8		B	10.2	11.1
	R	6.0	7.0		R	10.5	11.3
4 × 0.75	A	6.0	7.0	7 × 2.5	A	11.1	12.0
	B	6.9	7.6		B	12.1	13.2
	R	7.3	8.0		R	12.7	13.6
4 × 1.0	A	6.9	7.6	7 × 4	B	14.1	15.0
	B	7.4	8.4		R	14.5	15.4
	R	7.7	8.6				
4 × 1.5	A	7.9	8.8	7 × 6	B	16.2	17.1
	B	8.4	9.4		R	16.7	17.8
	R	8.6	9.6				
8 × 0.5	A	7.3	8.0	8 × 4	B	15.3	16.2
	B	7.5	8.5		R	15.7	16.2
	R	7.9	8.9				
8 × 0.75	A	7.9	8.9	8 × 6	B	17.1	18.6
	B	8.7	9.7		R	18.3	19.3
	R	9.4	10.5				
8 × 1.0	A	8.7	9.7	10 × 0.5	A	8.4	9.4
	B	9.7	10.6		B	8.9	9.8
	R	9.9	11.0		R	9.3	10.4
8 × 1.5	A	11.3	11.2	10 × 0.75	A	9.3	10.4
	B	11	11.9		B	10.5	11.4
	R	11.3	12.3		R	11.1	12.0
8 × 2.5	A	12.0	13.1	10 × 1.0	A	10.5	11.4
	B	13.3	14.2		B	11.3	12.4
	R	13.7	14.6		R	11.7	12.8

续表

芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	电缆最大外径 Max. Cable Outer Diameter (mm) KFF-200 KFF-260	电缆最大外径 Max. Cable Outer Diameter (mm) KFP_1F-200 KFP_1F-260	芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	电缆最大外径 Max. Cable Outer Diameter (mm) KFF-200 KFF-260	电缆最大外径 Max. Cable Outer Diameter (mm) KFP_1F-200 KFP_1F-260
10 × 1.5	A	12.1	13.2	12 × 4			
	B	13.1	14.0		B	18.8	19.8
	R	13.4	14.3		R	19.4	20.3
10 × 2.5	A	14.3	15.2	12 × 6			
	B	15.6	16.2		B	20.8	22.9
	R	16.1	17.0		R	22.4	23.5
10 × 4				14 × 0.5	A	9.2	10.3
	B	18.2	19.2		B	9.6	10.7
	R	18.7	19.7		R	10.2	11.1
10 × 6				14 × 0.75	A	10.2	11.1
	B	20.0	21.9		B	11.3	12.4
	R	21.7	22.6		R	11.8	12.9
12 × 0.5	A	8.7	9.7	14 × 1.0	A	11.3	12.4
	B	9.2	10.3		B	12.4	13.3
	R	9.6	10.7		R	12.9	13.8
12 × 0.75	A	9.6	10.7	14 × 1.5	A	13.3	14.2
	B	10.8	11.7		B	14.2	15.1
	R	11.5	12.6		R	14.5	15.4
12 × 1.0	A	10.8	11.7	14 × 2.5	A	15.5	16.4
	B	11.7	12.8		B	16.9	18.0
	R	12.1	13.2		R	17.7	18.6
12 × 1.5	A	12.6	13.5	14 × 4			
	B	13.5	14.4		B	19.9	20.8
	R	13.8	14.7		R	20.4	21.3
12 × 2.5	A	14.7	15.6	14 × 6			
	B	16.1	17.0		B	23.0	23.9
	R	16.6	17.7		R	23.8	24.5

注：16~52 芯的电缆规格，其外形尺寸根据用户需要另行提供。

Remarks: We provide users separately with specifications of the cable of 16~52 cores as request.

KFF22-200(260)、KFP_1F22-200(260)**型**

KFF22-200(260), KFP_1F22-200(260)types

芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	电缆最大外径 Max. Cable Outer Diameter (mm) KFF22-200 KFF22-260	电缆最大外径 Max. Cable Outer Diameter (mm) KFP_1F22-200 KFP_1F22-260	芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	电缆最大外径 Max. Cable Outer Diameter (mm) KFF22-200 KFF22-260	电缆最大外径 Max. Cable Outer Diameter (mm) KFP_1F22-200 KFP_1F22-260
2 × 4	B	13.4	14.5	10 × 0.75	A	12.8	13.9
	R	13.6	14.7		B	13.8	14.9
					R	14.4	15.7
2 × 6	B	14.7	15.8	10 × 1.0	A	13.8	14.9
	R	15.0	16.1		B	14.6	15.7
					R	15.0	16.1
3 × 4	B	14.0	15.1	10 × 1.5	A	15.4	16.5
	R	14.2	15.3		B	16.2	17.3
					R	16.5	17.6
3 × 6	B	15.5	16.5	10 × 2.5	A	17.1	19.0
	R	15.8	16.9		B	19.2	20.3
					R	19.7	20.8
4 × 4	A	15.0	16.1	10 × 4			
	B	15.3	16.4		B	21.6	22.7
	R		18.1		R	22.1	23.4



续表

芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	电缆最大外径 Max. Cable Outer Diameter (mm) KFF22-200 KFF22-260	电缆最大外径 Max. Cable Outer Diameter (mm) KFP_1F22-200 KFP_1F22-260	芯数 × 标称截面 Core Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	电缆最大外径 Max. Cable Outer Diameter (mm) KFF22-200 KFF22-260	电缆最大外径 Max. Cable Outer Diameter (mm) KFP_1F22-200 KFP_1F22-260
4 × 6	B R	16.6 17.0	18.1 18.5	12 × 0.75	A B R	13.1 14.1 14.8	14.2 15.2 15.9
5 × 2.5	A B R	13.5 14.4 14.8	14.6 15.5 15.9	12 × 1.0	A B R	14.1 14.9 15.4	15.2 16.1 16.5
5 × 4	B R	16.1 16.4	17.2 17.5	12 × 1.5	A B R	15.7 16.6 16.9	16.8 18.1 18.0
5 × 6	B R	18.3 18.7	19.5 20.1	12 × 2.5	A B R	18.2 19.7 20.2	19.4 20.8 21.3
7 × 0.25	A B R	14.1 15.4 15.8	15.5 16.5 17.0	12 × 4	B R	22.2 22.7	23.5 24.0
7 × 4	B R	17.2 17.6	18.7 19.5	14 × 0.5	A B R	12.7 13.2 13.6	13.8 14.3 14.7
7 × 6	B R	19.8 20.3	20.9 21.4	14 × 0.75	A B R	13.5 14.6 15.4	14.6 15.7 16.5
8 × 1.0	A B R	12.1 12.8 13.4	13.4 14.5	14 × 1.0	A B R	14.5 15.6 16.0	15.7 16.6 17.1
8 × 1.5	A B R	13.7 14.3 14.6	14.8 15.4 15.7	14 × 1.5	A B R	16.4 17.3 17.6	17.5 18.8 19.2
8 × 2.5	A B R	15.3 16.4 16.8	16.4 17.5 18.3	14 × 2.5	A B R	19.1 20.5 20.9	20.2 21.6 22.2
8 × 4	B R	17.8 19.3	20.0 20.4	14 × 4	B R	23.4 24.0	24.5 25.1
8 × 6	B R	21.1 21.9	22.2 22.8				

注：16~44 芯的电缆规格，其外形尺寸根据需要另提供。

Remarks: We provide users separately with specifications of the cable of 16~44 cores as request.

交货长度

Cable Length

根据双方协议允许任何长度交货，长度计量误差为 ± 0.5%。

It depends on final both agreements with length error allowance no more than ± 0.5%.

本质安全防爆电路用集散型仪表信号电缆

Intrinsic Safety Type Decentralized Control System Signal Cable for Explosion-proof Circuit

本产品适用于石油、化工、电力、煤气工程、矿山等存在爆炸危险的场合以及其它防爆安全要求较高的场合，传输自动控制信号。该电缆具有低电容、低电感集散型仪表信号电缆，简称本安型 DCS 电缆，具有优异的屏蔽性能和抗干扰性能，因此防爆安全性能明显高于一般 DCS 电缆和计算机控制电缆。

It is used to transmit automatic control signal in the environment with explosion danger or with high demand on explosion-proof performance such as petroleum, chemical industry, power, gas project, mine, etc. The cable, which is abbreviated as "Intrinsic Safety Type DCS Cable", has exellent shielding and interference-resisting performance with low capacitance and inductance. Its explosion-proof performance is better than general DCS cable and computer control cable.

生产执行标准
采用企业标准

Executive Standard:
as the enterprise's standard

使用条件

Working Conditions:

1.交流额定电压 U_0/U:300/500V

2.导体线芯最高工作温度:聚乙烯绝缘 70℃；交联聚乙烯绝缘 90℃；无卤低烟阻燃聚烯烃 70℃；

3.最低环境温度:固定敷设 -40℃，非固定敷设 -15℃；

4.安装敷设温度：不低于 0℃；

5.电缆允许弯曲半径：非铠装、编织屏蔽电缆不小于电缆外径的 6 倍；铜带屏蔽电缆不小于电缆外径的 12 倍。

1.A.C. Rated Voltage U_0/U: 300/500V

2.Max. Working Temperature of Conductor: 70℃ for cable with PE insulation;90℃ for cable with XLPE insulation;70℃ for cable with flame-retardant polyolefin of halogen-free and low smoke in fire

3.Min. Ambient Temperature:-40℃ for fixed installation; -15℃ for otherwise;

4.Min. Ambient Temperature in Installation: no lower than 0℃;

5.Cable Bending Radius Allowed: no less than 6 times that of calbe outer diameter for braiding shielded cable without armor; no less than 12 times that of cable outer diameter for Cu tape shielded cable

型号及名称 Type & Description

型 号 Type	名 称 Description
IJYPVP	铜芯聚乙烯绝缘聚氯乙烯护套铜线或镀锡铜线编织分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, PE insulation, PVC sheath, individual & general shieldings of braided Cu wire or tinned Cu wire
IJYPVRP	铜芯聚乙烯绝缘聚氯乙烯护套铜线或镀锡铜线编织分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, PE insulation, PVC sheath, individual & general shieldings of braided Cu wire or tinned Cu wire
$IJYP_LVP_L$	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, PE insulation, PVC sheath, individual & general shieldings of wrapping Al-plastics compound tape
$IJYP_LVRP_L$	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, PE insulation, PVC sheath, individual & general shieldings of wrapping Al-plastics compound tape



续表

型号 Type	名 称 Description
$IJYP_2VP_2$	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, PE insulation, PVC sheath, individual & general shieldings of wrapping Cu-plastics compound tape
$IJYP_2VRP_2$	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, PE insulation, PVC sheath, individual & general shieldings of wrapping Cu-plastics compound tape
IJYJPVP	铜芯交联聚乙烯绝缘聚氯乙烯护套铜线或镀锡铜线编织分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, XLPE insulation, PVC sheath, individual & general shieldings of braided Cu wire or tinned Cu wire
IJYJP VRP	铜芯交联聚乙烯绝缘聚氯乙烯护套铜线或镀锡铜线编织分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, XLPE insulation, PVC sheath, individual & general shieldings of braided Cu wire or tinned Cu wire
$IJYJP_LVP_L$	铜芯交联聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, XLPE insulation, PVC sheath, individual & general shieldings of wrapping Al-plastics compound tape
$IJYJP_LVRP_L$	铜芯交联聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, XLPE insulation, PVC sheath, individual & general shieldings of wrapping Al-plastics compound tape
$IJYJP_2VP_2$	铜芯交联聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, XLPE insulation, PVC sheath, individual & general shieldings of wrapping Cu-plastics compound tape
$IJYJP_2VRP_2$	铜芯交联聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, XLPE insulation, PVC sheath, individual & general shieldings of wrapping Cu-plastics compound tape
WDZIJYDPYDP	铜芯无卤低烟阻燃聚烯烃绝缘和护套铜线或镀锡铜线编织分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, fire-retardant, low smoke and halogen-free polyolefin insulation & sheath, individual & general shieldings of braided Cu wire or tinned Cu wire
WDZIJYDPYDRP	铜芯无卤低烟阻燃聚烯烃绝缘和护套铜线或镀锡铜线编织分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, fire-retardant, low smoke and halogen-free polyolefin insulation & sheath, individual & general shieldings of braided Cu wire or tinned Cu wire
$WDZIJYDP_LYDP_L$	铜芯无卤低烟阻燃聚烯烃绝缘和护套铝塑复合带绕包分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, fire-retardant, low smoke and halogen-free polyolefin insulation & sheath, individual & general shieldings of wrapping Al-plastics compound tape
$WDZIJYDP_LYD\ RP_L$	铜芯无卤低烟阻燃聚烯烃绝缘和护套铝塑复合带绕包分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, fire-retardant, low smoke and halogen-free polyolefin insulation & sheath, individual & general shieldings of wrapping Al-plastics compound tape
$WDZIJYDP_2YDP_2$	铜芯无卤低烟阻燃聚烯烃绝缘和护套铜塑复合带绕包分屏及总屏本安用 DCS 电缆 Intrinsic safety DCS cable with Cu core, fire-retardant, low smoke and halogen-free polyolefin insulation & sheath, individual & general shieldings of wrapping Cu-plastics compound tape
$WDZIJYDP_2YD\ RP_2$	铜芯无卤低烟阻燃聚烯烃绝缘和护套铜塑复合带绕包分屏及总屏本安用 DCS 软电缆 Intrinsic safety soft DCS cable with Cu core, fire-retardant, low smoke and halogen-free polyolefin insulation & sheath, individual & general shieldings of wrapping Cu-plastics compound tape

注：导体种类共有三种类型：A、B、R。订货时应在型号后注明。

Remarks: The conductor category includes A, B & R, and it should be indicated clearly in ordering.

产品结构及技术参数规定

Cable Structure & Technical Parameters

性能项目 Performance Items	单 位 Unit	指 标 Indices
工作电容(芯 - 芯)(1KHz) Working Capacitance （core-core)(1KHz)	ρF/m	⩽ 90
分布电感(1KHz) Distribution Inductance (1KHz)	μH/m	⩽ 0.6
静电感应电压（静电电压 20kV） Electrostatic Induction Voltage (electrostatic volt 20kV)	V	⩽ 0.1
电压试验(1min) Voltage Test (1minute)	V	2000
阻燃特性(按 GB/T18380-2001 Flame Retardation (as GB/T18380-2001)	A、B 或 C 类　A, B or C	

导体标称截面 Cross-section Area of Conductor(mm^2)	线 芯 结 构 Core Structure			20℃线芯直流电阻 D.C. Conductor Resistance at 20℃ ⩽ Ω/kM	
	A 类 A	B 类 B	R 类 R	A、B 类 A,B	R 类 R
0.5	1/0.8	7/0.30	19/0.18	36.0	39.0
0.75	1/0.97	7/0.37	19/0.23	24.5	26.0
1.0	1/1.13	7/0.43	19/0.26	18.1	19.5
1.5	1/1.37	7/0.52	19/0.32	12.1	13.3
2.5	1/1.76	7/0.68	19/0.41	7.41	7.98

电缆规格、结构尺寸及外径参考

Specification, Structural Sizes & Outer Diameter for Reference

对数 × 2 × 标称截面 Pair Number × 2 × Nominal Cross-section Area(mm^2)	电缆最大外径 Max. Cable Outer Diameter (mm)			参考重量 Reference Weight (kg/km)		
	IJYPV(R)P IJYJPV(R)P WDZIJY$_D$PY$_D$(R)P	IJYP$_L$V(R)P$_L$ IJYJP$_L$V(R)P$_L$ WDZIJY$_D$P$_L$Y$_D$(R)P$_L$	IJYP$_2$V(R)P$_2$ IJYJP$_2$V(R)P$_2$ WDZIJY$_D$P$_2$Y$_D$(R)P$_2$	IJYPV(R)P IJYJPV(R)P WDZIJY$_D$PY$_D$(R)P	IJYP$_L$V(R)P$_L$ IJYJP$_L$V(R)P$_L$ WDZIJY$_D$P$_L$Y$_D$(R)P$_L$	IJYP$_2$V(R)P$_2$ IJYJP$_2$V(R)P$_2$ WDZIJY$_D$P$_2$Y$_D$(R)P$_2$
1 × 2 × 0.5	9.0	8.4	9.4	86	58	63
1 × 2 × 0.75	9.6	8.8	9.9	99	69	74
1 × 2 × 1.0	10.0	9.4	10.4	113	81	87
1 × 2 × 1.5	11.0	10.0	11.2	137	101	108
1 × 2 × 2.5	11.8	11.2	12.4	174	134	142
2 × 2 × 0.5	17.3	16.4	19.0	179	122	235
2 × 2 × 0.75	18.3	17.4	20.0	211	150	277
2 × 2 × 1.0	19.3	18.4	21.0	241	172	311
2 × 2 × 1.5	21.8	20.5	23.0	295	219	378
2 × 2 × 2.5	24.2	22.5	25.9	398	301	489
3 × 2 × 0.5	18.8	16.5	19.9	218	153	281
3 × 2 × 0.75	19.8	17.6	21.0	264	191	328
3 × 2 × 1.0	20.9	18.6	22.1	301	223	385
3 × 2 × 1.5	23.1	21.0	24.3	373	284	486
3 × 2 × 2.5	26.2	23.8	27.4	518	434	637
4 × 2 × 0.5	20.5	17.9	21.5	268	191	283
4 × 2 × 0.75	21.6	19.1	22.8	326	241	382



续表

对数×2×标称截面 Pair Number × 2 × Nominal Cross-section Area(mm^2)	电缆最大外径 Max. Cable Outer Diameter (mm)			参考重量 Reference Weight (kg/km)		
	IJYPV(R)P IJYJPV(R)P WDZIJY$_D$PY$_D$(R)P	IJYP$_L$V(R)P$_L$ IJYJP$_L$V(R)P$_L$ WDZIJY$_D$P$_L$Y$_D$(R)P$_L$	IJYP$_2$V(R)P$_2$ IJYJP$_2$V(R)P$_2$ WDZIJY$_D$P$_2$Y$_D$(R)P$_2$	IJYPV(R)P IJYJPV(R)P WDZIJY$_D$PY$_D$(R)P	IJYP$_L$V(R)P$_L$ IJYJP$_L$V(R)P$_L$ WDZIJY$_D$P$_L$Y$_D$(R)P$_L$	IJYP$_2$V(R)P$_2$ IJYJP$_2$V(R)P$_2$ WDZIJY$_D$P$_2$Y$_D$(R)P$_2$
4 × 2 × 1.0	22.9	20.8	24.0	373	281	441
4 × 2 × 1.5	25.8	23.2	26.9	504	372	557
4 × 2 × 2.5	28.7	26.6	29.8	671	519	729
5 × 2 × 0.5	22.3	19.6	23.3	320	232	381
5 × 2 × 0.75	23.7	21.4	25.1	401	291	476
5 × 2 × 1.0	25.5	22.8	26.5	486	352	531
5 × 2 × 1.5	28.2	25.9	29.2	605	453	661
5 × 2 × 2.5	31.4	29.2	32.4	818	635	902
7 × 2 × 0.5	24.0	218	25.6	414	298	465
7 × 2 × 0.75	26.0	23.3	27.1	536	387	572
7 × 2 × 1.0	27.6	24.8	28.6	616	455	667
7 × 2 × 1.5	30.5	28.3	31.6	782	590	828
7 × 2 × 2.5	34.1	31.9	35.2	1058	848	1129
8 × 2 × 0.5	26.3	23.5	27.3	502	354	538
8 × 2 × 0.75	28.0	25.1	29.0	617	449	659
8 × 2 × 1.0	29.6	27.3	30.6	719	531	764
8 × 2 × 1.5	32.8	30.5	33.8	901	699	962
8 × 2 × 2.5	37.3	34.5	38.3	1251	991	1298
10 × 2 × 0.5	30.9	27.9	31.7	643	453	675
10 × 2 × 0.75	32.9	30.2	33.7	789	582	833
10 × 2 × 1.0	34.9	32.2	35.7	907	687	967
10 × 2 × 1.5	39.4	36.2	40.2	1157	905	1250
10 × 2 × 2.5	44.2	41.5	45.0	1587	1274	1687
12 × 2 × 0.5	31.9	29.1	32.6	718	514	774
12 × 2 × 0.75	33.6	31.2	34.7	885	661	953
12 × 2 × 1.0	36.0	33.2	37.3	994	784	1085
12 × 2 × 1.5	40.7	38.0	41.5	1416	1034	1470
12 × 2 × 2.5	45.7	43.0	46.5	1912	1469	1987
14 × 2 × 0.5	33.6	30.7	34.2	808	592	854
14 × 2 × 0.75	35.8	32.9	36.5	1016	753	1044
14 × 2 × 1.0	38.5	35.1	39.2	1257	892	1284
14 × 2 × 1.5	42.9	40.0	43.6	1599	1180	1575
14 × 2 × 2.5	48.7	45.3	49.4	2159	1693	2124
16 × 2 × 0.5	35.4	32.4	36.0	903	665	932
16 × 2 × 0.75	38.3	34.7	38.8	1156	849	1168
16 × 2 × 1.0	40.6	37.1	41.2	1404	1023	1451
16 × 2 × 1.5	45.3	42.1	45.9	1781	1328	1760
16 × 2 × 2.5	51.4	47.9	52.0	2425	1917	2421
19 × 2 × 0.5	37.3	34.1	38.3	1045	765	1107
19 × 2 × 0.75	40.3	36.6	40.8	1386	997	1343
19 × 2 × 1.0	42.8	39.6	43.3	1622	1180	1596
19 × 2 × 1.5	47.8	44.6	48.3	2041	1557	2036
19 × 2 × 2.5	54.3	51.1	54.8	2785	2224	2777
24 × 2 × 0.5	44.2	40.5	44.4	1451	1011	1374
24 × 2 × 0.75	47.2	43.5	47.4	1787	1310	1764
24 × 2 × 1.0	50.7	46.5	50.9	2065	1545	2051
24 × 2 × 1.5	56.7	53.0	56.9	2614	2029	2594
24 × 2 × 2.5	64.4	60.2	64.6	3575	2891	3563
1 × 3 × 0.5	9.3	8.1	10.0	95	66	71
1 × 3 × 0.75	9.7	8.7	10.6	113	82	87
1 × 3 × 1.0	10.4	9.2	11.1	127	95	101
1 × 3 × 1.5	11.3	10.1	12.0	158	121	128
1 × 3 × 2.5	12.6	11.4	13.3	209	168	177

续表

对数 × 2 × 标称截面 Pair Number × 2 × Nominal Cross-section Area(mm²)	电缆最大外径 Max. Cable Outer Diameter (mm)			参考重量 Reference Weight (kg/km)		
	IJYPV(R)P IJYJPV(R)P WDZIJY$_D$PY$_D$(R)P	IJYP$_L$V(R)P$_L$ IJYJP$_L$V(R)P$_L$ WDZIJY$_D$P$_L$Y$_D$(R)P$_L$	IJYP$_2$V(R)P$_2$ IJYJP$_2$V(R)P$_2$ WDZIJY$_D$P$_2$Y$_D$(R)P$_2$	IJYPV(R)P IJYJPV(R)P WDZIJY$_D$PY$_D$(R)P	IJYP$_L$V(R)P$_L$ IJYJP$_L$V(R)P$_L$ WDZIJY$_D$P$_L$Y$_D$(R)P$_L$	IJYP$_2$V(R)P$_2$ IJYJP$_2$V(R)P$_2$ WDZIJY$_D$P$_2$Y$_D$(R)P$_2$
2 × 3 × 0.5	17.7	16.5	19.6	215	153	262
2 × 3 × 0.75	19.4	17.6	20.8	263	195	309
2 × 3 × 1.0	20.4	18.6	21.8	299	225	349
2 × 3 × 1.5	22.6	21.4	24.0	384	291	435
2 × 3 × 2.5	25.7	24.5	27.1	544	420	583
3 × 3 × 0.5	18.7	16.9	20.6	265	196	303
3 × 3 × 0.75	20.5	18.2	21.9	329	251	373
3 × 3 × 1.0	21.6	19.8	22.9	379	293	426
3 × 3 × 1.5	24.0	22.2	25.9	518	366	522
3 × 3 × 2.5	27.3	25.5	28.7	702	561	741
4 × 3 × 0.5	21.0	18.6	22.3	328	247	368s
4 × 3 × 0.75	22.4	20.5	23.7	420	317	454
4 × 3 × 1.0	23.6	21.7	25.4	511	384	540
4 × 3 × 1.5	26.8	24.4	28.1	644	500	675
4 × 3 × 2.5	30.0	28.1	31.3	891	720	920
5 × 3 × 0.5	22.9	20.9	24.1	405	300	433
5 × 3 × 0.75	24.5	22.5	26.2	536	398	575
5 × 3 × 1.0	26.4	23.8	27.6	615	469	642
5 × 3 × 1.5	29.2	27.3	30.5	789	603	806
5 × 3 × 2.5	32.8	30.8	34.0	1086	893	1114
7 × 3 × 0.5	24.9	22.7	26.5	541	393	551
7 × 3 × 0.75	27.2	24.5	28.3	678	518	690
7 × 3 × 1.0	28.7	26.5	29.8	795	614	805
7 × 3 × 1.5	32.0	29.8	33.1	1012	816	1030
7 × 3 × 2.5	36.4	33.7	37.5	1510	1186	1427
8 × 3 × 0.5	27.3	24.4	28.3	623	465	636
8 × 3 × 0.75	29.3	26.9	30.3	792	604	795
8 × 3 × 1.0	30.9	28.5	31.9	918	722	932
8 × 3 × 1.5	34.5	32.1	35.5	1192	955	1186
8 × 3 × 2.5	39.3	36.9	40.3	1746	1398	1666
10 × 3 × 0.5	32.1	29.4	32.9	796	601	815
10 × 3 × 0.75	34.5	31.8	35.3	1017	779	1018
10 × 3 × 1.0	37.0	33.8	37.8	1263	923	1182
10 × 3 × 1.5	41.4	38.7	42.2	1623	1233	1521
10 × 3 × 2.5	46.6	43.9	47.9	2224	1799	2120
12 × 3 × 0.5	33.1	30.3	33.9	894	684	908
12 × 3 × 0.75	35.6	32.8	36.6	1233	893	1143
12 × 3 × 1.0	38.2	34.9	38.9	1422	1071	1344
12 × 3 × 1.5	42.8	40.0	43.6	1829	1416	1716
12 × 3 × 2.5	48.7	45.4	49.5	2531	2077	2413
14 × 3 × 0.5	34.9	32.0	35.6	1106	781	1047
14 × 3 × 0.75	38.0	34.6	38.7	1386	1035	1301
14 × 3 × 1.0	40.2	36.8	40.9	1622	1227	1515
14 × 3 × 1.5	45.1	42.2	45.8	2071	1634	1956
14 × 3 × 2.5	51.4	48.5	52.0	2879	2384	2756

交货要求

产品交货长度等，按订货协议规定，长度计量误差为 ± 0.5%。

Cable Length

It depends on both agreements with length error allowance no more than ± 0.5%.



交联聚乙烯绝缘聚氯乙烯护套控制电缆

Control Cable with XLPE Insulation & PVC Sheath

本产品适用于额定电压 450V/750V 及以下的配电装置，作电器仪表的连接线。

It is used as connection cable of electric appliances and instruments for power distribution devices of A.C. rated voltage 450/750V or lower.

生产执行标准
采用企业标准及参照 GB9330-88。

Executive Standard:
as the enterprise's standard with reference to GB9330-88 standard

使用条件

Working Conditions:

1.敷设温度、最小弯曲半径：电缆的敷设温度在不低于0℃条件下敷设时，无需预先加温；电缆敷设不受落差限制，敷设时的最小弯曲半径规定如下：

①无铠装层的电缆，应不小于电缆外径的 6 倍；

②有铠装层或铜带屏蔽结构的电缆，应不小于电缆外径的 12 倍；

③有屏蔽结构的软电缆，应不小于电缆外径的10倍。工作温度：

2.电缆导体的长期允许工作温度为 90℃，短路时，电缆导体的最高温度不超过 250℃，持续时间不超过 5s.

3.电缆绝缘电阻：最高额定温度时：体积电阻率 r 不低于 10^{12}W · cm；绝缘电阻常数 Ki 不小于 36.7MW · km。

1.Environment Temperature in Installation & Min. Bending Radius: Preheating is unnecessary when ambient temperatureremains no lower than 0℃. The installation remains freefrom restriction by drop. Min. bending radius of the cable is stipulated as follows:

①It should be no less than 6 times that of cable outer diameter for the cable without armor;

② It should be no less than 12 times that of cable outer diameter for armored cable or that with shielding tructure of copper tape.

③ It should be no less than 10 times that of cable outer diameter for soft cable with shielding structure.

2.Working Temperature:

The long-term working temperature of conductor is 90℃, and it should be no higher than 250℃ in time of short circuit which lasts no longer than 5 seconds.

3.Insulation Resistance: Volume Resistance Rate ρ at Max. Rated Temperature: no lower than 10^{12} Ω · cm;

Insulation Resistance Constant Ki: no smaller than 36.7MΩ · km.

电缆的型号、名称　Type & Description

型 号　Type	名 称　Description
KYJV	铜芯交联聚乙烯绝缘聚氯乙烯护套控制电缆 Control cable with Cu core, XLPE insulation & PVC sheath
KYJVP	铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制电缆 Soft control cable with Cu core, XLPE insulation, PVC sheath & shielding of braided Cu wire
KYJV22	铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath & steel tape armor
$KYJVP_2$	铜芯交联聚乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath & Cu tape shielding

注：需要阻燃型产品,订货时应在原型号前加“ZR-”表示，如：ZR-KYJV。

Remarks: Prefix "ZR-" should be added to the original type in ordering for flame-retardant cable, for example, "ZR-KYJV"

规格 Specification

型 号 Type	标称截面 Nominal Cross Section Area(mm^2)					
	0.75	1.0	1.5	2.5	4	6
KYJV	2~61					
KYJVP	2~61					2~14
KYJV22	4~61					4~14
KYJVP2	4~61					4~14

技术参数 Technical Parameters

成品电缆导体20℃时直流电阻　　D.C. Conductor Resistance of Finished Cable at 20℃

标称截面 Nominal Cross Section Area (mm^2)	0.75	1.0	1.5	2.5	4	6	10
20℃时直流电阻 D.C. Resistance at 20℃ (Ω /km)	24.5	18.1	12.2	7.41	4.61	3.08	1.83

1.成品电缆经受3500V工频交流电压试验5min不击穿。

2.交联聚乙烯绝缘控制电缆的耐热性、耐寒性、耐化学性、绝缘电阻和使用寿命远优于聚氯乙烯绝缘控制电缆。

1.The finished cable could endure A.C.3500V voltage test under working frequency for 5 minutes without puncture.

2.The performance of resisting heat, coldness and chemical corrosion and insulation resistance and life expectancy of control cable with XLPE insulation remains much better than those of control cable with PVC insulation.

典型规格尺寸 Typical Specifications

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	KYJV		KYJVP		KYJV22		$KYJVP_2$	
	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)
2 × 0.75	6.5	52.1	7.4	78.4	--	--	--	--
2 × 1.0	6.8	59.8	7.7	87.5	--	--	--	--
2 × 1.5	7.7	78.3	8.6	110.3	--	--	--	--
2 × 2.5	8.9	109.5	9.8	147.1	--	--	--	--
2 × 4	9.9	147.0	11.6	217.2	--	--	--	--
2 × 6	10.9	196.8	12.6	274.6	--	--	--	--
3 × 0.75	6.8	64.9	7.7	92.5	--	--	--	--
3 × 1.0	7.1	76.2	8.0	105.6	--	--	--	--
3 × 1.5	8.1	100.2	9.0	134.0	--	--	--	--
3 × 2.5	9.5	144.8	10.3	184.7	--	--	--	--
3 × 4	10.4	198.0	12.1	272.4	--	--	--	--
3 × 6	12.1	286.2	13.2	352.8	--	--	--	--
4 × 0.75	7.3	79.5	8.2	108.6	--	--	8.0	105.3
4 × 1.0	7.7	90.0	8.6	124.9	--	--	8.4	121.5
4 × 1.5	8.9	115.0	9.7	160.8	--	--	9.6	157.2
4 × 2.5	10.2	181.4	11.9	254.5	13.8	343.2	11.5	236.9
4 × 4	12.0	267.4	13.1	332.6	15.0	429.0	12.7	313.3
4 × 6	13.2	374.8	14.3	436.4	16.2	541.1	13.9	415.1
5 × 0.75	7.9	86.9	8.8	119.9	--	--	8.6	116.6
5 × 1.0	8.3	106.1	9.2	140.5	--	--	9.0	137.3
5 × 1.5	9.5	143.3	10.4	183.8	--	--	10.8	194.7
5 × 2.5	11.7	227.2	12.8	291.1	14.7	386.0	12.4	272.1



续表

芯数 × 标称截面 Core Number × Nominal Cross Section Area (mm^2)	KYJV		KYJVP		KYJV22		KYJVP$_2$	
	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)
5 × 4	13.0	315.6	14.1	387.1	16.0	490.6	13.7	366.1
5 × 6	14.4	431.4	15.5	511.2	17.8	640.4	15.1	488.0
7 × 0.75	8.3	110.0	19.4	145.5	12.1	246.7	9.2	142.0
7 × 1.0	8.7	132.9	9.4	170.7	12.5	276.4	9.6	167.0
7 × 1.5	10.3	183.3	9.8	243.4	13.9	346.0	11.6	239.2
7 × 2.5	12.7	291.6	11.8	361.9	15.7	463.2	13.4	341.4
7 × 4	14.1	412.8	13.8	490.9	17.1	601.8	14.8	468.1
7 × 6	15.6	570.7	16.7	658.0	19.0	796.9	16.3	632.7
8 × 0.75	9.1	123.2	10.0	161.5	12.7	268.2	10.4	171.8
8 × 1.0	11.7	149.2	11.1	205.0	13.2	301.8	10.9	201.0
8 × 1.5	13.5	221.9	12.8	285.7	14.7	380.1	12.4	266.9
8 × 2.5	15.9	329.4	14.7	407.8	16.6	512.5	14.4	382.7
8 × 4	18.2	466.7	16.7	632.9	18.6	687.4	16.3	542.0
8 × 6	20.2	662.7	18.4	758.6	20.3	890.1	18.0	731.0
10 × 0.75	10.5	152.5	12.1	227.1	14.1	317.2	11.7	209.4
10 × 1.0	11.7	181.2	12.8	264.2	14.7	358.7	12.4	245.2
10 × 1.5	13.5	275.7	14.6	349.9	16.5	456.6	14.3	328.7
10 × 2.5	15.9	409.8	17.0	498.8	19.3	639.3	17.0	488.6
10 × 4	18.2	598.0	19.3	696.3	21.2	836.6	18.9	670.2
10 × 6	20.2	825.9	21.5	965.4	23.2	1090.7	20.9	907.2
12 × 0.75	11.3	189.9	12.4	257.8	14.3	344.0	12.0	233.5
12 × 1.0	12.0	230.4	13.1	295.8	15.0	392.5	12.7	276.4
12 × 1.5	13.9	316.9	15.0	393.6	16.9	602.9	14.8	371.2
12 × 2.5	16.4	476.0	17.9	584.5	19.8	712.5	17.5	577.7
12 × 4	18.7	696.7	19.8	801.3	21.7	942.6	19.4	771.4
12 × 6	20.9	978.5	22.1	1122.7	23.9	1251.5	21.5	1062.5
14 × 0.75	11.9	214.1	13.8	278.6	14.9	374.3	12.6	259.4
14 × 1.0	12.6	260.5	14.7	329.2	15.6	429.6	13.3	308.9
14 × 1.5	14.5	369.9	15.6	440.7	17.9	571.1	15.2	417.2
14 × 2.5	17.2	544.1	18.7	658.2	20.6	791.8	19.3	630.0
14 × 4	19.7	798.2	20.8	908.2	22.7	1055.8	20.4	876.7
14 × 6	21.9	1113.3	23.2	1265.5	24.9	1400.0	22.6	1202.2
16 × 0.75	12.4	234.7	13.5	302.6	15.4	402.0	13.1	282.5
16 × 1.0	13.2	443.0	14.3	358.9	16.2	463.5	13.9	337.6
16 × 1.5	15.3	399.1	16.4	484.3	18.7	620.5	16.0	459.6
16 × 2.5	18.5	622.4	19.6	725.7	21.5	865.5	19.2	696.1
19 × 0.75	13.0	266.9	14.1	338.3	16.0	441.8	13.7	317.3
19 × 1.0	13.8	327.0	14.9	403.4	17.2	528.1	14.5	381.1
19 × 1.5	16.1	458.7	17.6	564.8	19.5	690.7	17.2	538.5
19 × 2.5	19.5	718.4	20.6	827.5	22.5	973.7	20.2	796.4
24 × 0.75	15.0	331.4	16.1	414.8	18.4	548.6	15.7	390.6
24 × 1.0	15.9	407.1	17.4	512.3	19.3	637.4	17.0	486.2
24 × 1.5	19.0	591.0	20.1	697.5	22.0	841.4	19.7	667.1
24 × 2.5	22.6	899.1	23.9	1056.5	25.5	1195.2	23.3	991.2
27 × 0.75	15.3	363.9	16.4	449.1	18.7	585.2	16.4	439.5
27 × 1.0	16.3	449.1	17.8	556.6	19.7	684.0	17.4	530.0
27 × 1.5	19.4	651.1	20.5	729.9	22.4	906.8	20.1	728.8
27 × 2.5	23.1	995.9	24.4	1157.1	26.1	1298.3	23.8	1090.2
30 × 0.75	15.8	398.2	17.3	501.8	19.2	625.9	16.9	475.9
30 × 1.0	17.2	509.7	18.3	603.0	20.2	734.1	17.9	575.5
30 × 1.5	20.1	713.2	21.4	951.9	23.1	976.8	20.8	794.0
30 × 2.5	24.0	1094.6	25.3	1261.9	27.0	1407.6	24.7	1192.6
37 × 0.75	17.3	485.2	18.4	581.5	20.3	713.4	18.0	553.8
37 × 1.0	18.5	600.2	19.6	703.3	21.5	842.8	19.2	673.8
37 × 1.5	21.6	850.4	2.9	1000.3	24.6	1133.4	22.3	937.9

续表

芯数 × 标称截面 Core Number × Nominal Cross Section Area (mm^2)	KYJV		KYJVP		KYJV22		$KYJVP_2$	
	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)	外径 mm Outer Diameter	重量 Weight (kg/km)
37 × 2.5	25.8	202.8	27.7	1532.2	30.6	2001.9	27.1	1456.5
44 × 0.75	19.3	570.8	20.6	704.0	22.3	824.3	20.0	648.6
44 × 1.0	20.6	707.2	21.9	849.6	23.6	977.1	21.3	790.3
44 × 1.5	24.2	1004.4	25.4	1173.5	27.8	1359.0	24.9	1103.3
44 × 2.5	29.6	1594.4	31.1	1839.3	34.2	2356.2	30.3	1715.7
48 × 0.75	19.6	613.2	20.9	748.3	22.6	870.5	20.3	691.9
48 × 1.0	20.9	772.9	22.2	906.7	23.9	1047.0	21.6	846.4
48 × 1.5	24.6	899.4	25.9	1245.5	29.4	1740.1	25.9	1183.2
48 × 2.5	30.1	1721.9	31.6	1971.1	34.5	2496.1	30.8	1845.2
52 × 0.75	20.1	656.8	21.4	795.8	23.3	920.8	20.8	737.3
52 × 1.0	21.5	817.4	22.8	966.3	24.8	1097.9	22.2	908.8
52 × 1.5	25.3	1163.6	27.2	1378.2	30.1	1838.5	26.6	1309.4
52 × 2.5	30.9	1851.8	32.8	2138.7	35.5	2647.0	32.0	2075.0
61 × 0.75	21.3	758.1	22.6	905.6	24.3	1036.9	22.0	876.5
61 × 1.0	22.7	935.0	24.0	1093.2	25.7	1232.2	23.4	1017.9
61 × 1.5	27.3	1375.7	28.7	1565.7	31.6	2051.6	28.7	1497.5
61 × 2.5	33.2	2163.3	34.7	2437.5	37.4	2974.8	33.9	2387.3

交货要求

按双方协议规定，长度计量误差为 ± 0.5%。

Cable Length

It depends on both agreements with length errror allowance no more than ± 0.5%.



低烟低卤阻燃控制电缆

Low Smoke & Halogen Flame-retardant Control Cable

本产品适用于额定电压 470/750 及以下，有低烟低卤阻燃要求的控制电缆线路中。

It is used in control cable line of rated voltage 450/750V or lower with demand on low smoke & halogen and flame-retardant performance.

生产执行标准
采用企业标准及参照 GB9330-88。

Executive Standard:
as the enterprise's standard with reference to GB9330-88

使用条件

1.电缆导体的长期允许工作温度为 70℃；
2.电缆敷设温度应不低于 0℃，推荐的允许弯曲半径，无铠装层的电缆，应不小于电缆外径 的 6 倍，有铠装层或铜带屏蔽结构的电缆，应不小于电缆外径的 12 倍。

Working Conditions

1.Allowed conductor temperature for long-term working is 70℃.
2.Ambient temperature for installation should be no lower than 0℃. Allowed bending radius recommended should be no smaller than 6 times that of cable outer diameter for cable without armor and 12 times for armored cable or cable with shielding structure of copper tape.

型号、名称如表　Type & Description

型 号 Type	名 称 Description
KZRYCVV	低烟、低卤阻燃型聚氯乙烯绝缘聚氯乙烯护套控制电缆 Control cable with low smoke & halogen, flame-retardant PVC insulation& sheath
KZRYCVVP	低烟、低卤阻燃型聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆 Control cable with low smoke & halogen, flame-retardant PVC insulation& sheath, and braided shielding
KZRYCVVP$_2$	低烟、低卤阻燃型聚氯乙烯绝缘聚氯乙烯护套铜网屏蔽控制电缆 Control cable with low smoke & halogen, flame-retardant PVC insulation& PVC sheath, and Cu meshes shielding
KZRYCVVP22	低烟、低卤阻燃型聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Control cable with low smoke & halogen, flame-retardant PVC insulation & sheath, and steel tape armor

注：① 型号中的 ZR —代表阻燃，YC —代表低烟低卤；
② 低烟—在规定试验条件下，试样受热分解或燃烧释放出 的烟比较少，符合规定 的指标特性；
③ 低卤—在规定的试验条件下，试样燃烧时放出的烟中卤 化氢（HCl）的含量比 较少，符合规定指标的特性
④ 阻燃—在规定的试验条件下，试样被燃烧，在撤去火源后， 火焰的蔓延仅在规 定的范围内，残焰或残灼在规定的时 间内能自行熄灭的性。

Remarks:①ZR refers to flame retardation, YC refers to low smoke & halogen character.
②Low smoke-Under stipulated testing conditions, smoke out of decomposition with heat or emission in firing is less, which conforms to stipulated indices.
③ Low halogen-Under stipulated testing conditions, HCl content of smoke emitted in firing is less which conforms to stipulated indices.
④ Flame retardation-Under stipulated testing conditions,the tested sample is fired. After removing flame source,flame spreads within stipulated range, remnant flame will go out on itself within stipulated time.

规格范围 Specification Range

产品型号 Type	额定电压 (V) Rated Voltage	导体标称截面 Nominal Cross-section Area of Conductor(mm^2)						
		0.75	1.0	1.5	2.5	4	6	10
		芯数 Core Number						
KZRYCVV KZRYCVVP KZRYCVVP$_2$ KZRYCVVP22	450/750	2～37				2～10		

注: ① 推荐的芯数系列为: 2,3,4,5,6,7,8,9,10,12,14,16,19,24,30,37 芯;
② 电缆的绝缘层外护套材料, 必须使用低烟、低卤阻燃聚氯乙烯塑料制造, 电缆的结构尺寸参照 GB9330-88 相 应型号规格表。

Remarks:① Core numbers recommended:2,3,4,5,6,7,8,9,10,12,14,16,19,24,30,or37 cores.
② Flame-retardant PVC with low smoke & halogen must be adopted for material of insulation & outer sheath Please make reference to GB9330-88 standard for structural sizes of the cable.

技术性能

1.最大烟密度不大于 300;
2.电气性能、机械性能参照 GB9330-88 标准要求;
3.Hcl 释放量(mg/g)不大于 100。

Technical Performance:

1.Rhe maximum smoke density should be no more than 300;
2.Please make reference to GB9330-88 standard forelectric and mechanical characters.
3.HCL emission(mg/g)should be no more than 100.

交货要求

1.成圈长度为 100m, 成盘长度应不小于 100m;
2.24 芯及以下, 允许长度应不小于 20m 的短段电缆交货, 其数量应不超过总长度的 5%;
3.24 芯以上, 允许长度不小于 20m 的短段电缆交货, 其数量不超过总长度 10%;
4.根据双方协议允许任何长度交货, 长度计量误差为 ± 0.5%。

Cable Length:

1.The length of cable in coil should be 100m, and that of cable on drum should be no less than 100m;
2.Pieces of the cable no shorter than 20m with 24 cores or less are allowed for delivery, which accounts no more than 5% of the total length.
3.Pieces of the cable no shorter than 20m with more than 24 cores are allowed for delivery, which accounts no more than 10% of the total length.
4.It depends on both agreements with length error allowance no more than ± 0.5%.



低烟无卤阻燃控制电缆

Low Smoke, Halogen-free & Flame-retardant Control Cable

本产品适用于交流50～60Hz，额定电压750V及以下，有低烟、无卤无毒、无腐蚀（无公害电缆）阻燃要求作为控制监控回路等场合使用。

It is used in control & supervision return circuit of A.C. 50~60Hz, rated voltage 750V or lower with demand on low smoke, halogen-free and flame-retardant performance, free from toxicity & corrosion (environment-friendly cable).

生产执行标准
采用企业标准及参照GB9330-88。

Executive Standard:
as the enterprise's standard with reference to GB9330-88

技术性能

1.该产品参照IEC227、IEC1034、IEC332国际标准设计;
2.性能要求
① 成束燃烧A级或B级、（炭化部分高度）：≤ 2.5m;
② 不延燃（未烧损距离）：≥ 50mm;
③ 烟浓度（最小透光率）：≥ 60%;
④ HCL 含量度≤ 0.5mg/g。

Technical Performance:

1.It is designed based on IEC227, IEC1034 & IEC332standard.
2.Technical Demands:
①Class A or class B firing in bundle (Carbonized Part Height): ⩽2.5m;
② No flame spreading in fire (Part Intact Distance): ⩾ 50mm;
③ Smoke Density (Min. Light Penetration Rate): ⩾ 60%;
④ HCL Content: ⩽ 0.5mg/g

电缆的型号、名称　　Type & Description

型 号 Type	名　　称 Description
DWZKYJE	铜芯交联聚乙烯绝缘低烟无卤阻燃型聚烯烃护套控制电缆 Control cable with Cu core, XLPE insulation, and low smoke, halogen-free & flame-retardant polyolefin sheath
DWZKYJEP	铜芯交联聚乙烯绝缘铜丝编织屏蔽低烟无卤阻燃型聚烯烃护套控制电缆 Control cable with Cu core, XLPE insulation, shielding of braided Cu wire, and low smoke, halogen-free & flame-retardant polyolefin sheath
DWZKYJEP$_2$	铜芯交联聚乙烯绝缘铜带屏蔽低烟无卤阻燃型聚烯烃护套控制电缆 Control cable with Cu core, XLPE insulation, Cu tape shielding, and low smoke, halogen-free & flame-retardant polyolefin sheath
DWZKYJEP$_3$	铜芯交联聚乙烯绝缘铝塑复合带屏蔽低烟无卤阻燃型聚烯烃护套控制电缆 Control cable with Cu core, XLPE insulation, shielding of Al-plastics compound tape, and low smoke, halogen-free & flame-retardant polyolefin sheath
DWZKYJE$_{23}$	铜芯交联聚乙烯绝缘钢带铠装低烟无卤阻燃型聚烯烃护套控制电缆 Control cable with Cu core, XLPE insulation, steel tape armor, and low smoke, halogen-free & flame-retardant polyolefin sheath
DWZKYJER	铜芯交联聚乙烯绝缘低烟无卤阻燃型聚烯烃护套控制软电缆 Soft control cable with Cu core, XLPE insulation, and low smoke, halogen-free & flame-retardant polyolefin sheath
DWZKYJERP	铜芯交联聚乙烯绝缘铜丝编织屏蔽低烟无卤阻燃型聚烯烃护套控制软电缆 Soft control cable with Cu core, XLPE insulation, shielding of braided Cu wire, and low smoke, halogen-free & flame-retardant polyolefin sheath

“DWZ”：表示低烟无卤阻燃。
“DWZ” means: low smoke, halogen-free & flame-retardan performance.

电缆规格　Cable Specifications

型　号 Type	芯　数 Core Number 额定电压 Rated Voltage V	标称截面　mm^2 Nominal Cross Section Area					
		0.75	1.0	1.5	2.5	4	6
DWZKYJE DWZKYJEP	450/750	2 ~ 61				2 ~ 14	
$DWZKYJEP_2$		2 ~ 61				4 ~ 14	
$DWZKYJEP_3$ DWZKYJE23		6 ~ 61			4 ~ 37	4~ 14	
DWZKYJER DWZKYJERP		4 ~ 37					

电缆的外形尺寸

参照交联聚乙烯绝缘控制电缆

Cable Outer Figure & Sizes

see Control Cable with XLPE Insulation section of the Catalogue

交货要求

1.成圈长度为 100m，成盘长度应不小于 100m;

2.根据双方协议允许任何长度交货，长度计量误差 ± 0.5%。

Cable Length:

1.The length of the cable in coil should be 100 meters, andthat of cable on drum should be no less than 100 meters.

2.It depends on both agreements with length error allowance no more than ± 0.5%.



耐火电缆
Fire-resistant Cable

本产品适用于高层建筑、油田、电站、电厂、矿山、化工、矿井、地铁等要求防火条件高的场合，也是应急电源、消防泵、电梯通讯信号系统的应备电缆；该产品具有较高的耐火能力，在经受火焰直接燃烧情况下，在一定时间内（不小于3h）不发生短路和断路故障，确保继续供电以维持照明和传输信号，保护人员有足够的时间安全撤离，且利于灭火及减少损失。

生产执行标准

采用企业标准。

使用条件

1.交流额定电压：U_0/U（V系列：600/1000V，K系列：450/750V，B系列450/750V）。

2.电缆长期最高工作温度

①阻燃聚氯乙烯绝缘及护套：70℃和105℃两种交联聚乙烯绝缘：90℃；

②氟塑料绝缘和护套：200℃和260℃两种　氟塑料绝缘105℃阻燃聚氯乙烯护套：90℃和125℃　两种。

③低卤低烟阻燃PVC绝缘和护套：70℃，无卤低烟阻燃聚烯烃绝缘和护套：90℃和125℃两种。

3..最低环境温度:

①阻燃聚氯乙烯绝缘和护套：固定敷设-40℃；非固定敷设-15℃；

② 氟塑料绝缘和护套：固定敷设-60℃；非固定敷设-20℃。

4.电缆安装敷设环境温度应不低于0℃。

5.耐火特性

符合IEC331规定
as the stipulations in IEC331

火焰温度 Flame Temperature	750℃ 750℃
燃烧时间 Firing Time	3h 3h
冷却时间 Cooling Tim	21h 21h
附加电压 Additional Voltage	额定电压 Rated Voltage
附加电流 Additional Current	3A 3A

符合GB12666.6规定
as the stipulations in GB12666.6

火焰温度 Flame Temperature	950℃～1000℃ 950℃～1000℃	火焰温度 Flame Temperature	750℃～800℃ 750℃～800℃
燃烧时间 Firing Time	90min 90min	燃烧时间 Firing Time	90min 90min
附加电压 Additional Voltage	额定电压 Rated Voltage	附加电压 Additional Voltage	额定电压 Rated Voltage
附加电流 Additional Current	3A 3A	附加电流 Additional Current	3A 3A
A类 A type		B类 B type	

6.敷设推荐的允许弯曲半径:

非铠装、编织屏蔽电缆应不小于电缆外径的6倍；钢带铠装电缆应不小于电缆外径的12倍；氟塑料绝缘和护套材料电缆应不小于电缆外径的8倍；

It is used in the environment with high demand on fire-resisting performance such as high-rise building, oil field, power station, power plant, mine, chemical industry, subway, and so on, also the necessary cable prepared for emergency power, fire-fight pump, and communication system of elevator. In time of being directly fired by flame, it could ensure continually supplying power and transmitting signal to keep lighting within certain time (no less than 3 hours) for people to retreat safely and also to benefit fighting fire to lower damage.

Executive Standard
as the enterprise's standard

Working Conditions:

1.A.C. Rated Voltage: U_0/U (V series: 600/1000V, K series: 450/750V, B series: 450/750V)

2.Max. cable working temperature:

① Flame-retardant PVC insulation & sheath: 70℃& 105℃; XLPE Insulation: 90℃;

② Fluoroplastics Insulation & Sheath: 200℃ & 260℃; Fluoroplastics Insulation & 105℃ Flame-retardant PVC Sheath: 90℃& 125℃

③ Low Smoke & Halogen, Flame-retardant PVC Insulation & Sheath: 70℃; Low Smoke & Halogen-free, flame-retardant polyolefin Insulation & Sheath: 90℃ & 125℃

3.Min. Environment Temperature:

① Flame-retardant PVC Insulation & Sheath: -40℃ for fixed installation; -15℃ for non fixed installation

② Fluoroplastics Insulation & Sheath: -60℃ for fixed installation; -20℃ for non fixed installation

4.Environment temperature in installation should be no lower than 0℃.

5.Fire-resistant Character

6.Allowed Bending Radius Recommended:

no less than 6 times that of cable outer diameter for cable with braided shielding but without armor; no less than 12 times that of cable outer diameter for steel tape armored cable;no less than 8 times that of cable outer diameter for fluoroplastics insulated & sheathed cable.

型号、名称　Type & Description

型 号 Type	名 称 Description	备 注 Remarks
NH—VV	铜芯聚氯乙烯绝缘聚氯乙烯护套耐火电力电缆 Fire-resistant power cable with Cu core, PVC insulation & sheath	还生产NH-YJV、NH-YJV22、NH-KYJV NH-KYJV22 等耐火电缆。 We also produce NH-YJV, NH-YJV22, NH-KYJV, NH-KYJV22 types fire-resistant cables.
NH—VV22	铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装耐火电力电缆 Fire-resistant power cable with Cu core, PVC insulation & sheath, steel tape armor	
NH—KVV	铜芯聚氯乙烯绝缘聚氯乙烯护套耐火控制电缆 Fire-resistant control cable with Cu core, PVC insulation & sheath	
NH—KVV22	铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装耐火控制电缆 Fire-resistant control cable with Cu core, PVC insulation & sheath, steel tape armor	
NH—BV	铜芯聚氯乙烯绝缘耐火电缆(电线) Fire-resistant cable (wire) with Cu core, PVC insulation	
NH—BVV	铜芯聚氯乙烯绝缘聚氯乙烯护套圆形耐火电缆(电线) Circular fire-resistant cable (wire) with Cu core, PVC insulation & sheath	

规 格 范 围　Specifction Range

型　号 Type	电压等级 Voltage Class(V)	规格，截面　Specification, Cross-section Area
NH-VV、NH-VV22、 NH-YJV、NH-YJV22、	600/1000	芯 数：1 ~ 4 芯，3+2 芯　Core Number:1 ~ 4 cores, 3+2 cores 截 面：2.5 ~ 240 (mm^2)　Cross-section Area: 2.5 ~ 240(mm^2)
NH-KVV、NH-KYJV、 NH-KVV22、NH-KYJV22	450/750	芯 数：2 ~ 61 芯　Core Number:2 ~ 61 cores 截 面：2.5 ~ 10 (mm^2)　Cross-section Area: 2.5 ~ 10(mm^2)
NH-BV NH-BVV	450/750	芯 数：1 ~ 5 芯　Core Number:1 ~ 5 cores 截 面：1.5 ~ 240 (mm^2)　Cross-section Area: 1.5 ~ 240(mm^2)

技术特性

1.耐火电缆外径，截面 25mm^2 及以下比普通同类型号产品规格大 15%，截面 25 mm^2 以上者比普通同类型号产品的规格大 25%;

2.产品的电气性能和物理机械性能与普通同类产品相同;

3.耐火电缆的载流量和类似型号的电缆相同;

4.耐火试验标准采用 IEC331 或 GB12666.6。

使用注意事项

1、电缆接头时，导体和绝缘之间应用 4 层云母带重迭绕包作为耐火层，其它施工方法与类似电缆相同。

2、电缆应严格避免锐器损坏，否则将会降低电缆的耐火性能。

3、电缆的允许弯曲半径为：电缆外径(D)小于 25mm 者应不小于 4D；电缆外径(D)大于 25mm 者应不小于 6D。

交货要求

1.交货长度不小于 100m，允许长度不小于 20m 的短段电缆交货，其数量不超过交货总长度的 10%，长度计量误差允许不超过 ± 0.5%。

2.根据协议允许任何长度交货。

Technical Characters:

1.The outer diameter of fire-resistant cable with cross-section area 25mm^2 or less is bigger than that of common cable by 15%, and that of the cable with cross-section area of more than 25mm^2 is bigger than that of common cable by 25%.

2.The electric, physic & mechanical performance of the cable remains the same as that of common one.

3.The current-loading capacity of fire-resistant cable remains the same as those of similar type cable.

4.Fire-resistant test should be conducted as IEC331 or GB12666.6 standard.

Cautions:

1.Four layers of mica tape should be wrapped around between insulation and conductor as fire-resistant layer in connection of the cable. Other installation measures may be taken according to that for similar type cable.

2.The user should strictly avoid damage on the cable with sharp-edged objects. Otherwise it would affect fire-resistant performance of the cable.

3.Allowed Cable Bending Radius : It should be no lessthan 4 times that of cable outer diameter for the cable with outer diameter less than 25mm, no less than 6 times that of cable outer diameter for the cable with outer diameter more than 25mm.

Cable Length:

1.It should be no less than 100 meters. Pieces of the cableno shorter than 20 meters are allowed for delivery accounting no more than 10% of the total length with length error allowance no more than ± 0.5%.

2.It depends on both agreements.



计算机用(屏蔽)电缆

Computer (Shielded) Cable

本产品适用于电子计算机网络及控制系统，抗干扰性能要求较高的检测装置和仪器仪表的连接。

It is used as connection cable of inspection devices and instruments with high demand on interference-resistant performance in computer network and control system.

生产执行标准
采用企业标准及参照英国标准 BS5308。

Executive Standard:
as the enterprise's standard with reference BS5308 standard

使用特性

1.额定电压 U_0/U 为 300/500V；电缆导体的长期工作温度：聚氯乙烯有 70℃、105℃两种；聚乙烯绝缘为 70℃；交联聚乙烯绝缘为 90℃（绝缘交联类型可分为硅烷交联和辐照交联）。

2.电缆可在环境温度 -40℃~50℃的条件下作固定敷设使用，敷设时环境温度应不低于 0℃。

3.铜带屏蔽结构的电缆，敷设时的弯曲半径应不小于电缆外径的 10 倍；有铠装的电缆敷设时弯曲半径应不小于电缆外径的 12 倍；其它电缆敷设时弯曲半径应不小于电缆外径的 6 倍。

Working Conditions:

1.Rated Voltage U_0/U:300/500V; Long-term Working Temperature:70℃ & 105℃ for PVC;70℃ for PEinsulation; 90℃ for XLPE insulation (XLPE insulation includes silane XLPE & irradiation XLPE insulation).

2.The cable is fixedly laid in the environment with temperature of -40℃~50℃, and environment temperature for installation should be no lower than 0℃.

3.Bending radius in installation should be no less than 10 times that of cable outer diameter for the cable with Cu tape shielding structure, no less than 12 times for armored cable, and no less than 6 times for other calbe.

型号、结构特征 Type & Structural Characters:

型号 Type			结构特征 Structural Characters
铜芯聚氯乙烯绝缘聚氯乙烯护套 Cu core, PVC insulation & sheath	铜芯聚乙烯绝缘聚氯乙烯护套 Cu core, PE insulation & PVC sheath	铜芯交联聚乙烯绝缘聚氯乙烯护套 Cu core, XLPE insulation & PVC sheath	
DJVPV	DJYPV	DJYJPV	编织分对屏蔽(铜丝或镀锡铜丝) Separate Pair Braided Shielding (Cu wire or tinned Cu wire)
$DJVP_2V$	$DJYP_2V$	$DJYJP_2V$	铜带分对屏蔽 Separate Pair Cu Tape Shielding
$DJVP_3V$	$DJYP_3V$	$DJYJP_3V$	铝塑复合带分对屏蔽 Pair AL/Plastics Tape Shielding
DJVVP	DJYVP	DJYJVP	编织总屏蔽(铜丝或镀锡铜丝) General Braided Shielding (Cu wire or tinned Cu wire)
$DJVVP_2$	$DJYVP_2$	$DJYJVP_2$	铜带总屏蔽 General Cu Tape Shielding
$DJVVP_3$	$DJYVP_3$	$DJYJVP_3$	铝塑复合带总屏蔽 General AL/Plastics Tape Shielding
DJVPVP	DJYPVP	DJYJPVP	编织分、总屏蔽(铜丝或镀锡铜丝) Separate & General Braided Shieldings (Cu wire or tinned Cu wire)
$DJVP_2VP_2$	$DJYP_2VP_2$	$DJYJP_2VP_2$	铜带分、总屏蔽 Separate & General Cu Tape Shieldings
$DJVP_3VP_3$	$DJYP_3VP_3$	$DJYJP_3VP_3$	铝塑复合带分、总屏蔽 Separate & General AL/Plastics Tape Shieldings
$DJVP_2V22$	$DJYP_2V22$	$DJYJP_2V22$	铜带分屏蔽，铠装 Separate Cu Tape Shielding, Armored
$DJVP_3V22$	$DJYP_3V22$	$DJYJP_3V22$	铝塑复合带分屏蔽，铠装 Separate AL/Plastics Tape Shielding, Armored
$DJVVP_{2\text{-}22}$	$DJYVP_{2\text{-}22}$	$DJYJVP_{2\text{-}22}$	铜带总屏蔽，铠装 General Cu Tape Shielding, Armored
$DJVVP_{3\text{-}22}$	$DJYVP_{3\text{-}22}$	$DJYJVP_{3\text{-}22}$	铝塑复合带总屏蔽，铠装 General AL/Plastics Tape Shielding, Armored
$DJVP_2VP_{2\text{-}22}$	$DJYP_2VP_{2\text{-}22}$	$DJYJP_2VP_{2\text{-}22}$	铜带分、总屏蔽，铠装 Separate & General Cu Tape Shieldings, Armored
$DJVP_3VP_{3\text{-}22}$	$DJYP_3VP_{3\text{-}22}$	$DJYJP_3VP_{3\text{-}22}$	铝塑复合带分、总屏蔽，铠装 Separate & General AL/Plastics Tape Shieldings, Armored
DJVPVR	DJYPVR	DJYJPVR	编织分对屏蔽软结构 Pair Braided Shielding, Soft Structure
$DJVP_2VR$	$DJYP_2VR$	$DJYJP_2VR$	铜带分对屏蔽软结构 Pair Cu Tape Shielding, Soft Structure
DJVPVPR	DJYPVPR	DJYJPVPR	编织分、总屏蔽软结构 Separate & General Braided Shieldings, Soft Structure
$DJVP_2VP_2R$	$DJYP_2VP_2R$	$DJYJP_2VP_2R$	铜带分、总屏蔽软结构 Separate & General Cu Tape Shieldings, Soft Strcture

规格范围 Specification Range

型 号 Type				对 数 Pair(s)	标称截面 (mm^2) Nominal Cross-section Area
DJVPV	DJYPV	DJYJPV	$DJVP_2V$	1 ~ 24	0.5,0.75,1.0,1.5,2.5
$DJYP_2V$	$DJYJP_2V$	$DJVP_3V$	$DJYP_3V$		
$DJYJP_3V$	DJVVP	DJYVP	DJYJVP		
$DJVVP_2$	$DJYVP_2$	$DJYJVP_2$	$DJVVP_3$		
$DJYVP_3$	$DJYJVP_3$	DJVPVP	DJYPVP		
DJYJPVP	$DJVP_2VP_2$	$DJYP_2VP_2$	$DJYJP_2VP_2$		
$DJVP_3VP_3$	$DJYP_3VP_3$	$DJYJP_3VP_3$	$DJVP_2VR$		
DJVPVR	DJYPVR	DJYJPVR	DJYPVPR		
$DJYP_2VR$	$DJYJP_2VR$	DJVPVPR	$DJYJP_2VP_2R$		
DJYJPVPR	$DJVP_2VP_2R$	$DJYP_2VP_2R$			
$DJVP_2V22$	$DJYP_2V22$		$DJYJP_2V22$	2 ~ 24	
$DJVP_3V22$	$DJYP_3V22$		$DJYJP_3V22$		
$DJVVP_{2\text{-}22}$	$DJYVP_{2\text{-}22}$		$DJYJVP_{2\text{-}22}$		
$DJVVP_{3\text{-}22}$	$DJYVP_{3\text{-}22}$		$DJYJVP_{3\text{-}22}$		
$DJVP_2VP_{2\text{-}22}$	$DJYP_2VP_{2\text{-}22}$		$DJYJP_2VP_{2\text{-}22}$		
$DJVP_3VP_{3\text{-}22}$	$DJYP_3VP_{3\text{-}22}$		$DJYJP_3VP_{3\text{-}22}$		

注：根据需要还可生产阻燃计算机用电缆，只需在型号加“ZR”即可。如：ZR-DJYPVP。

Remarks: We also produce flame-retardant computer cable as user’s demand. Prefix “XR” should be added, for example: ZR-DJYPVP.

技术参数 Technical Parameters:

1、 导体直流电阻及导体结构 D.C.Conductor Resistance & Conductor Structure

标称截面 （mm^2） Nominal Cross-section Area	导体结构（根数/单丝直径mm） Conductor Structure (Pieces/Diameter mm)			20℃直流电阻 ≤（Ω/km） D.C.Resistance at 20℃ ≤(Ω/km)	
	A 类	B 类	R 类	A、B 类	R 类
0.5	1/0.8	7/0.3	16/0.2	36.0	39.0
0.75	1/0.97	7/0.37	24/0.2	24.5	26.0
1.0	1/1.13	7/0.43	32/0.2	18.1	19.5
1.5	1/1.38	7/0.52	30/0.25	12.1	13.3
2.5	1/1.78	7/0.68	49/0.25	7.41	7.98

说明：计算机电缆的导体结构一般采用 A 类或 R 类制造，如有用户需要 B 类导体结构的产品，订货时请在合同中注明。

Remarks: Generally, we produce computer cable with A or R structure, the cable with B structure should be indicated in contract.

2、 绝缘电阻：聚氯乙烯绝缘电阻 Insulation Resistance: PVC insulation & sheath

70℃、90℃最小绝缘电阻(MΩ·km) Min. Insulation Resistance at 70℃, 90℃(MΩ·km)	导体标称截面 Nominal Cross-section Area of Conductor (mm^2)				
	0.5	0.75	1.0	1.5	2.5
	0.013	0.014	0.013	0.010	0.010

注：聚乙烯、交联聚乙烯绝缘的电缆的芯间及线芯对屏蔽间的绝缘电阻，在温度为20℃时，应不小于500 MΩ·km。

Remarks: Insulation resistance between cores and between pair shieldings of the cable with PE or XLPE insulation at 20℃ should be no less than 500 MW·km.

3、电缆应经受工频交流电压试验；试验电压：2000V，试验时间为 5min，试验温度为环境温度。

3.The cable should pass A.C. 2000V voltage test under working frequency and ambient temperature for 5 minutes.



电缆的外形尺寸 Cable Sizes

DJYPV 系列外径参考(二线组) Outer Diameter of DJYPV Series (2-wire Group)

对数×标称截面 Pair Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference			对数×标称截面 Pair Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference		
		DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPVP DJVPVP DJYJPVP			DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPVP DJVPVP DJYJPVP
1 × 2 × 0.5	A	8.2	8.2	--	8 × 2 × 1.5	A	26.1	25.0	26.7
1 × 2 × 0.75		8.5	8.6	--	8 × 2 × 2.5		30.3	28.8	31.0
1 × 2 × 1.0		9.3	9.3	--	10 × 2 × 0.5		23.4	22.0	24.0
1 × 2 × 1.5		9.8	9.8	--	10 × 2 × 0.75		24.7	23.4	25.3
1 × 2 × 2.5		11.2	11.0	--	10 × 2 × 1.0		27.6	26.0	28.2
2 × 2 × 0.5		13.2	12.6	13.8	10 × 2 × 1.5		29.6	28.0	30.2
2 × 2 × 0.75		14.0	13.3	14.5	10 × 2 × 2.5		34.4	32.8	36.0
2 × 2 × 1.0		15.3	14.7	15.9	12 × 2 × 0.5		24.1	22.4	24.7
2 × 2 × 1.5		16.3	15.7	16.9	12 × 2 × 0.75		25.5	24.0	26.1
2 × 2 × 2.5		18.7	18.1	19.3	12 × 2 × 1.0		28.5	27.0	29.1
3 × 2 × 0.5		14.0	13.2	14.6	12 × 2 × 1.5		30.6	29.0	31.2
3 × 2 × 0.75		14.7	14.0	15.3	12 × 2 × 2.5		36.4	34.0	37.0
3 × 2 × 1.0		16.2	15.6	16.8	14 × 2 × 0.5		25.4	23.5	26.0
3 × 2 × 1.5		17.3	16.7	18.0	14 × 2 × 0.75		27.0	25.0	27.6
3 × 2 × 2.5		20.5	19.8	21.0	14 × 2 × 1.0		30.0	27.4	30.4
4 × 2 × 0.5		15.2	14.5	15.7	14 × 2 × 1.5		32.2	30.4	32.8
4 × 2 × 0.75		16.0	15.4	17.6	14 × 2 × 2.5		38.5	36.7	39.0
4 × 2 × 1.0		17.7	17.1	18.3	16 × 2 × 0.5		25.8	25.6	26.4
4 × 2 × 1.5		19.5	19.0	20.2	16 × 2 × 0.75		28.4	26.3	29.0
4 × 2 × 2.5		22.4	21.8	23.0	16 × 2 × 1.0		31.7	29.7	32.3
5 × 2 × 0.5		16.6	15.7	17.1	16 × 2 × 1.5		34.1	32.1	34.7
5 × 2 × 0.75		17.5	16.7	18.1	16 × 2 × 2.5		40.7	38.8	41.3
5 × 2 × 1.0		20.0	19.0	20.6	19 × 2 × 0.5		28.2	26.0	28.8
5 × 2 × 1.5		21.4	20.8	22.0	19 × 2 × 0.75		30.0	27.7	30.6
5 × 2 × 2.5		24.6	24.0	25.2	19 × 2 × 1.0		33.5	31.0	34.1
7 × 2 × 0.5		18.0	16.8	18.6	19 × 2 × 1.5		37.0	33.8	37.6
7 × 2 × 0.75		19.0	17.8	19.6	19 × 2 × 2.5		43.0	40.8	43.6
7 × 2 × 1.0		21.8	20.6	22.4	24 × 2 × 0.5		33.0	30.2	33.6
7 × 2 × 1.5		23.3	22.1	24.0	24 × 2 × 0.75		36.0	32.2	36.6
7 × 2 × 2.5		27.0	25.8	27.6	24 × 2 × 1.0		40.4	37.6	41.0
8 × 2 × 0.5		20.7	19.5	21.3	24 × 2 × 1.5		43.4	40.6	44.0
8 × 2 × 0.75		22.0	20.6	22.6	24 × 2 × 2.5		51.6	48.7	52.2
8 × 2 × 1.0		24.4	23.1	25.0					

DJYP$_2$V 系列外径参考(二线组)　Outer Diameter of DJYP$_2$V Series (2-wire Group)

对数 × 标称截面 Pair Number × Nominal Cross-section Area (mm²)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference			对数 × 标称截面 Pair Number × Nominal Cross-section Area (mm²)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference		
		DJYP$_2$V DJVP$_2$V DJYJP$_2$V	DJYP$_2$VP$_2$ DJVP$_2$VP$_2$ DJYJP$_2$VP$_2$	DJYP$_2$VP22 DJVP$_2$V22 DJYJP$_2$V22			DJYP$_2$V DJVP$_2$V DJYJP$_2$V	DJYP$_2$VP$_2$ DJVP$_2$VP$_2$ DJYJP$_2$VP$_2$	DJYP$_2$VP22 DJVP$_2$V22 DJYJP$_2$V22
1 × 2 × 0.5	A	7.8	8.2	10.6	8 × 2 × 1.5	A	24.3	24.9	27.6
1 × 2 × 0.75		8.1	8.5	11.0	8 × 2 × 2.5		28.4	29.0	31.7
1 × 2 × 1.0		9.0	9.2	11.8	10 × 2 × 0.5		21.0	22.0	24.6
1 × 2 × 1.5		9.3	9.7	12.3	10 × 2 × 0.75		22.6	23.4	26.0
1 × 2 × 2.5		10.5	10.7	13.6	10 × 2 × 1.0		25.4	26.3	28.8
2 × 2 × 0.5		12.2	12.6	15.2	10 × 2 × 1.5		27.4	28.3	30.8
2 × 2 × 0.75		12.8	13.3	15.8	10 × 2 × 2.5		32.3	33.0	36.6
2 × 2 × 1.0		14.3	14.7	17.3	12 × 2 × 0.5		21.8	22.7	25.3
2 × 2 × 1.5		15.3	15.7	18.3	12 × 2 × 0.75		23.3	24.0	26.7
2 × 2 × 2.5		17.7	18.0	20.7	12 × 2 × 1.0		26.3	27.0	29.7
3 × 2 × 0.5		12.8	13.2	15.8	12 × 2 × 1.5		28.3	29.2	31.7
3 × 2 × 0.75		13.6	14.0	16.6	12 × 2 × 2.5		33.3	34.2	37.7
3 × 2 × 1.0		15.1	15.5	18.1	14 × 2 × 0.5		23.0	23.8	26.4
3 × 2 × 1.5		16.2	16.6	19.2	14 × 2 × 0.75		24.4	25.3	28.0
3 × 2 × 2.5		18.8	19.2	22.4	14 × 2 × 1.0		27.6	28.5	31.0
4 × 2 × 0.5		14.0	14.4	17.0	14 × 2 × 1.5		29.8	30.7	33.3
4 × 2 × 0.75		14.8	15.2	17.8	14 × 2 × 2.5		36.0	37.0	39.6
4 × 2 × 1.0		16.5	17.0	20.1	16 × 2 × 0.5		24.2	25.0	27.7
4 × 2 × 1.5		17.8	18.2	21.3	16 × 2 × 0.75		26.0	26.6	29.2
4 × 2 × 2.5		21.0	21.6	24.3	16 × 2 × 1.0		29.0	30.0	32.6
5 × 2 × 0.5		15.3	15.6	18.3	16 × 2 × 1.5		31.5	32.4	35.0
5 × 2 × 0.75		16.2	16.6	19.2	16 × 2 × 2.5		38.0	39.0	41.6
5 × 2 × 1.0		18.1	18.5	21.7	19 × 2 × 0.5		25.4	26.4	29.0
5 × 2 × 1.5		20.0	20.5	23.0	19 × 2 × 0.75		27.0	28.0	30.7
5 × 2 × 2.5		23.2	23.7	26.3	19 × 2 × 1.0		30.7	31.7	34.3
7 × 2 × 0.5		16.6	17.0	20.0	19 × 2 × 1.5		33.0	34.2	37.8
7 × 2 × 0.75		17.6	18.0	21.2	19 × 2 × 2.5		40.0	41.2	43.8
7 × 2 × 1.0		20.2	20.8	23.4	24 × 2 × 0.5		29.6	30.8	33.4
7 × 2 × 1.5		21.7	22.3	24.8	24 × 2 × 0.75		31.6	32.8	36.4
7 × 2 × 2.5		25.3	25.8	28.5	24 × 2 × 1.0		37.0	38.2	40.7
8 × 2 × 0.5		18.3	18.9	22.2	24 × 2 × 1.5		40.0	41.2	43.7
8 × 2 × 0.75		20.0	20.8	23.4	24 × 2 × 2.5		48.2	49.3	52.0
8 × 2 × 1.0		22.5	23.2	25.8					

注: ①、DJVVP$_2$、DJYVP$_2$、DJYJVP$_2$ 型外径参考 KVVP$_2$ 型外径尺寸。

②、DJVVP$_{2\text{-}22}$、DJYVP$_{2\text{-}22}$、DJYJVP$_{2\text{-}22}$ 型外径在 DJYVP$_2$ 型外径上增加 4mm。

③、DJVP$_2$VP$_{2\text{-}22}$、DJYP2VP$_{2\text{-}22}$、DJYJP$_2$VP$_{2\text{-}22}$ 型外径在 DJYP$_2$VP$_2$ 型系列外径上增加 5mm。

Remarks: ①See the sizes of KVVP$_2$ type for those of DJVVP$_2$, DJYVP$_2$, DJYJVP$_2$ types.

② The outer diameter of DJYVP$_2$ type calbe is added by 4mm to get that of DJVVP$_{2\text{-}22}$, DJYVP$_{2\text{-}22}$, DJYJVP$_{2\text{-}22}$ types.

③ The outer diameter of DJYP$_2$VP$_2$ type cable is added by 5mm to get that of DJVP$_2$VP$_{2\text{-}22}$, DJYP$_2$VP$_{2\text{-}22}$, DJYJP$_2$VP$_{2\text{-}22}$ types.



$DJYP_3V$ 系列外径参考(二线组)　Outer Diameter of $DJYP_3V$ Series (2 wires group)

对数×标称截面 Pair Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference				对数×标称截面 Pair Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference			
		$DJYVP_3$ $DJVVP_3$ $DJYJVP_3$	$DJYP_3V$ $DJVP_3V$ $DJYJP_3V$	$DJYP_3VP_3$ $DJVP_3VP_3$ $DJYJP_3VP_3$	$DJYP_3VP22$ $DJVP_3VP22$ $DJYJP_3VP22$			$DJYVP_3$ $DJVVP_3$ $DJYJVP_3$	$DJYP_3V$ $DJVP_3V$ $DJYJP_3V$	$DJYP_3VP_3$ $DJVP_3VP_3$ $DJYJP_3VP_3$	$DJYP_3VP22$ $DJVP_3VP22$ $DJYJP_3$ VP22
1 × 2 × 0.5		7.7	7.7	8.1	10.8	8 × 2 × 1.5		24.2	24.6	24.8	27.4
1 × 2 × 0.75		8.1	8.1	8.5	11.0	8 × 2 × 2.5		28.3	28.7	28.9	31.6
1 × 2 × 1.0		8.8	8.8	9.1	11.8	10 × 2 × 0.5		21.0	21.6	21.8	24.4
1 × 2 × 1.5		9.3	9.3	9.7	12.3	10 × 2 × 0.75		22.5	23.0	23.2	25.8
1 × 2 × 2.5		10.5	10.5	11.0	13.5	10 × 2 × 1.0		25.4	25.9	26.4	28.7
2 × 2 × 0.5		12.1	12.3	12.5	15.1	10 × 2 × 1.5		27.4	27.8	30.2	30.7
2 × 2 × 0.75		12.8	13.0	13.2	15.8	10 × 2 × 2.5		32.2	32.7	32.9	34.7
2 × 2 × 1.0		14.3	14.4	14.6	17.3	12 × 2 × 0.5		21.8	22.3	22.5	25.1
2 × 2 × 1.5		15.3	1.5	15.6	18.3	12 × 2 × 0.75		23.2	23.7	24.0	26.5
2 × 2 × 2.5		17.7	17.8	18.0	21.3	12 × 2 × 1.0		26.3	26.7	27.0	29.5
3 × 2 × 0.5		12.8	13.0	15.8	16.1	12 × 2 × 1.5		28.3	28.6	28.8	31.6
3 × 2 × 0.75		13.5	13.7	16.5	16.4	12 × 2 × 2.5		33.3	33.7	33.9	37.6
3 × 2 × 1.0		15.0	15.3	18.0	17.7	14 × 2 × 0.5		23.0	23.4	23.6	26.3
3 × 2 × 1.5		16.2	16.4	19.8	19.6	14 × 2 × 0.75		24.4	25.0	25.2	27.7
3 × 2 × 2.5	A	18.8	19.5	22.3	22.4	14 × 2 × 1.0	A	27.6	29.1	28.3	31.0
4 × 2 × 0.5		13.9	14.1	14.3	17.0	14 × 2 × 1.5		29.8	30.3	30.5	32.3
4 × 2 × 0.75		14.7	15.0	15.1	17.7	14 × 2 × 2.5		36.0	36.6	36.8	38.6
4 × 2 × 1.0		16.5	16.7	16.8	20.0	16 × 2 × 0.5		24.0	24.7	25.0	27.5
4 × 2 × 1.5		17.6	17.8	18.0	21.3	16 × 2 × 0.75		25.7	26.3	26.5	29.0
4 × 2 × 2.5		21.2	21.4	21.5	24.0	16 × 2 × 1.0		29.0	29.7	30.0	32.5
5 × 2 × 0.5		15.0	15.4	15.6	18.2	16 × 2 × 1.5		31.4	32.0	32.2	34.8
5 × 2 × 0.75		16.0	16.3	16.5	19.0	16 × 2 × 2.5		38.0	38.6	38.8	41.5
5 × 2 × 1.0		18.0	18.2	18.4	21.6	19 × 2 × 0.5		25.3	26.0	26.2	28.8
5 × 2 × 1.5		19.3	20.2	20.4	23.0	19 × 2 × 0.75		27.0	27.7	28.0	30.5
5 × 2 × 2.5		23.2	23.4	23.6	26.2	19 × 2 × 1.0		30.6	31.3	31.5	34.0
7 × 2 × 0.5		16.4	16.7	16.9	19.0	19 × 2 × 1.5		33.0	33.8	34.0	37.6
7 × 2 × 0.75		17.4	17.7	17.9	21.0	19 × 2 × 2.5		40.0	40.8	41.0	43.6
7 × 2 × 1.0		20.0	20.5	20.7	23.3	24 × 2 × 0.5		29.6	30.4	30.6	33.2
7 × 2 × 1.5		21.6	22.0	22.2	24.8	24 × 2 × 0.75		31.6	32.4	32.6	35.2
7 × 2 × 2.5		25.2	25.6	25.8	28.4	24 × 2 × 1.0		37.0	37.7	38.0	40.5
8 × 2 × 0.5		18.3	18.6	18.8	22.0	24 × 2 × 1.5		40.0	40.7	41.0	43.5
8 × 2 × 0.75		20.0	20.4	20.6	23.2	24 × 2 × 2.5		48.0	48.9	49.1	51.7
8 × 2 × 1.0		22.5	22.9	23.1	25.7						

注: ①、$DJVVP_{3\text{-}22}$、$DJYVP_{3\text{-}22}$、$DJYJVP_{3\text{-}22}$ 型外径在 $DJYVP_3$ 型外径上增加 4.5mm。

②、$DJVP_3VP_{3\text{-}22}$、$DJYP_3VP_{3\text{-}22}$、$DJYJP_3VP_{3\text{-}22}$ 型外径在 $DJYP_3VP_3$ 型外径上增加 5mm。

Remarks: ① The outer diameter of $DJYVP_3$ type cable is added by 4.5mm to get that of $DJVVP_{3\text{-}22}$, $DJYVP_{3\text{-}22}$, $DJYJVP_{3\text{-}22}$ types.

② The outer diameter of $DJYP_3VP_3$ type cable is added by 5mm to get that of $DJVP_3VP_{3\text{-}22}$, $DJYP_3VP_{3\text{-}22}$, $DJYJP_3VP_{3\text{-}22}$ types.

DJYPVR 系列外径参考(二线组)　Outer Diameter of DJYPV Series (2 wires group)

对数×标称截面 Pair Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference				对数×标称截面 Pair Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference			
		DJYPVR DJVPVR DJYJPVR	DJYPVPR DJVPVPR DJYJPVPR	$DJYP_2VR$ $DJVP_2VR$ $DJYJP_2VR$	$DJYP_2VP_2R$ $DJVP_2VP_2R$ $DJYJP_2VP_2R$			DJYPVR DJVPVR DJYJPVR	DJYPVPR DJVPVPR DJYJPVPR	$DJYP_2VR$ $DJVP_2VR$ $DJYJP_2VR$	$DJYP_2VP_2R$ $DJVP_2VP_2R$ $DJYJP_2VP_2R$
1 × 2 × 0.5	R	8.7	9.3	8.3	8.5	8 × 2 × 1.5	R	27.7	28.3	26.3	26.5
1 × 2 × 0.75		9.2	9.8	8.8	9.0	8 × 2 × 2.5		32.6	33.2	31.2	31.4
1 × 2 × 1.0		9.9	10.5	9.5	9.7	10 × 2 × 0.5		24.5	25.1	23.0	23.2
1 × 2 × 1.5		10.4	11.0	10.0	10.2	10 × 2 × 0.75		26.6	27.2	25.0	25.2
1 × 2 × 2.5		11.8	12.4	11.5	11.7	10 × 2 × 1.0		29.3	30.0	27.0	27.9
2 × 2 × 0.5		13.8	14.4	13.0	13.2	10 × 2 × 1.5		31.4	32.0	29.8	30.0
2 × 2 × 0.75		14.8	15.4	14.0	14.2	10 × 2 × 2.5		37.2	38.7	36.5	36.7
2 × 2 × 1.0		16.2	16.7	15.4	15.6	12 × 2 × 0.5		25.3	25.9	23.6	23.8
2 × 2 × 1.5		17.2	17.8	16.6	16.8	12 × 2 × 0.75		27.5	28.0	25.8	26.0
2 × 2 × 2.5		20.6	21.3	20.0	20.2	12 × 2 × 1.0		30.3	30.8	28.6	28.8
3 × 2 × 0.5		14.5	15.1	14.5	14.7	12 × 2 × 1.5		32.5	33.0	30.8	31.0
3 × 2 × 0.75		15.6	16.3	15.0	15.2	12 × 2 × 2.5		39.3	40.0	37.7	38.0
3 × 2 × 1.0		17.3	17.7	16.5	16.7	14 × 2 × 0.5		26.6	27.2	24.8	25.0
3 × 2 × 1.5		18.3	19.5	17.4	17.8	14 × 2 × 0.75		29.0	29.5	27.2	27.4
3 × 2 × 2.5		22.0	22.5	21.0	21.2	14 × 2 × 1.0		32.0	32.5	30.2	30.4
4 × 2 × 0.5		15.8	16.5	14.8	15.0	14 × 2 × 1.5		34.2	34.8	32.5	32.7
4 × 2 × 0.75		17.1	17.7	16.2	16.4	14 × 2 × 2.5		41.6	42.2	39.8	40.0
4 × 2 × 1.0		18.8	19.9	17.8	18.0	16 × 2 × 0.5		28.0	28.7	26.2	26.4
4 × 2 × 1.5		20.6	21.2	19.0	19.2	16 × 2 × 0.75		30.5	31.0	28.6	28.8
4 × 2 × 2.5		24.0	24.7	23.0	23.2	16 × 2 × 1.0		32.7	33.3	31.8	32.0
5 × 2 × 0.5		17.3	17.9	16.2	16.4	16 × 2 × 1.5		37.2	37.8	34.3	34.5
5 × 2 × 0.75		18.7	19.3	17.6	17.8	16 × 2 × 2.5		44.0	44.5	4.0	42.2
5 × 2 × 1.0		21.0	21.8	20.0	20.3	19 × 2 × 0.5		29.6	30.2	27.6	27.8
5 × 2 × 1.5		22.6	23.3	21.5	21.7	19 × 2 × 0.75		32.2	32.8	30.2	30.4
5 × 2 × 2.5		26.4	27.0	25.3	25.6	19 × 2 × 1.0		36.6	37.2	33.6	33.8
7 × 2 × 0.5		18.8	20.0	17.6	17.8	19 × 2 × 1.5		39.2	39.8	37.2	37.4
7 × 2 × 0.75		21.0	21.6	19.2	20.0	19 × 2 × 2.5		47.4	48.0	44.4	44.6
7 × 2 × 1.0		23.0	23.6	21.8	22.0	24 × 2 × 0.5		34.7	36.3	32.3	32.5
7 × 2 × 1.5		24.6	25.2	23.4	23.6	24 × 2 × 0.75		38.8	39.4	36.4	36.6
7 × 2 × 2.5		29.0	29.5	27.7	28.0	24 × 2 × 1.0		42.8	43.5	40.5	40.7
8 × 2 × 0.5		21.7	22.3	20.3	20.5	24 × 2 × 1.5		46.0	46.6	43.6	43.8
8 × 2 × 0.75		23.5	24.2	22.2	22.4	24 × 2 × 2.5		55.6	56.2	53.2	53.4
8 × 2 × 1.0		25.8	26.5	24.5	24.7						

注：①、凡铝箔屏蔽的软结构电缆，参照铜带屏蔽软结构外径。

②、导体种类为 R 类的软结构电缆外径参照 A 类结构电缆外径尺寸，并与相同型号规格的外径增加 3-5mm。

Remarks:① See outer diameter of soft structure cable with Cu shielding for that of soft structure cable with Al foil.

②The outer diameter of the cable with A conductor structure is added by 3~5 mm on the basis of that of same specification cable to get those of R structure cable.



DJYVP 系列外径参考(三线组)　Outer Diameter of DJYVP Series (3-wire Group)

对数×标称截面 Pair Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference			对数×标称截面 Pair Number × Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	外径参考 (mm) Outer Diameter Reference		
		DJYVP DJVVP DJYJVP	DJVPVP DJYPVP DJYJPVP	DJYPV DJVPV DJYJPV			DJYVP DJVVP DJYJVP	DJVPVP DJYPVP DJYJPVP	DJYPV DJVPV DJYJPV
1 × 3 × 0.5	A	9.0	--	9.0	8 × 3 × 1.5	A	27.0	29.2	28.5
1 × 3 × 0.75		9.4	--	9.4	8 × 3 × 2.5		31.5	33.7	32.9
1 × 3 × 1.0		10.2	--	10.2	10 × 3 × 0.5		23.5	26.2	25.5
1 × 3 × 1.5		10.7	--	10.7	10 × 3 × 0.75		25.1	27.6	26.8
1 × 3 × 2.5		12.0	--	12.0	10 × 3 × 1.0		28.3	30.7	30.0
2 × 3 × 0.5		13.5	14.7	14.1	10 × 3 × 1.5		30.5	33.0	32.2
2 × 3 × 0.75		14.4	15.5	15.0	10 × 3 × 2.5		26.8	39.2	38.4
2 × 3 × 1.0		15.9	17.1	16.5	12 × 3 × 0.5		24.2	26.8	26.0
2 × 3 × 1.5		17.0	18.2	17.6	12 × 3 × 0.75		25.8	28.5	27.7
2 × 3 × 2.5		20.4	21.0	20.3	12 × 3 × 1.0		29.2	31.7	31.0
3 × 3 × 0.5		14.6	15.7	15.0	12 × 3 × 1.5		31.3	34.0	33.2
3 × 3 × 0.75		15.3	16.6	15.8	12 × 3 × 2.5		37.8	40.5	39.7
3 × 3 × 1.0		17.0	18.3	17.6	14 × 3 × 0.5		25.3	28.2	27.5
3 × 3 × 1.5		18.3	19.5	18.7	14 × 3 × 0.75		27.0	30.0	29.2
3 × 3 × 2.5		21.6	23.0	22.2	14 × 3 × 1.0		30.4	33.3	32.5
4 × 3 × 0.5		15.6	17.1	16.5	14 × 3 × 1.5		33.0	36.8	36.0
4 × 3 × 0.75		16.5	18.0	17.4	14 × 3 × 2.5		39.7	42.7	42.0
4 × 3 × 1.0		18.5	20.7	20.0	16 × 3 × 0.5		26.6	29.7	39.0
4 × 3 × 1.5		20.4	22.0	21.4	16 × 3 × 0.75		28.4	31.5	30.7
4 × 3 × 2.5		23.5	25.1	24.5	16 × 3 × 1.0		32.2	35.2	34.5
5 × 3 × 0.5		16.9	18.7	18.0	16 × 3 × 1.5		34.8	38.8	38.0
5 × 3 × 0.75		18.0	20.4	19.7	16 × 3 × 2.5		41.9	45.0	44.2
5 × 3 × 1.0		20.7	22.4	21.7	19 × 3 × 0.5		28.0	31.2	30.5
5 × 3 × 1.5		22.2	23.9	23.2	19 × 3 × 0.75		29.8	33.0	32.2
5 × 3 × 2.5		25.8	27.5	26.8	19 × 3 × 1.0		33.9	38.0	37.2
7 × 3 × 0.5		18.4	20.6	19.8	19 × 3 × 1.5		37.6	40.8	40.0
7 × 3 × 0.75		20.2	22.0	21.3	19 × 3 × 2.5		44.2	48.5	47.7
7 × 3 × 1.0		22.5	24.3	23.6	24 × 3 × 0.5		32.6	37.4	36.6
7 × 3 × 1.5		24.2	26.0	25.3	24 × 3 × 0.75		34.8	39.7	39.0
7 × 3 × 2.5		28.2	30.0	29.2	24 × 3 × 1.0		40.5	44.5	43.7
8 × 3 × 0.5		20.9	23.1	22.5	24 × 3 × 1.5		43.8	48.8	48.0
8 × 3 × 0.75		22.4	24.6	23.9	24 × 3 × 2.5		53.0	56.5	55.7
8 × 3 × 1.0		25.2	27.2	26.5					

注：①、铜带屏蔽结构电缆的外形尺寸在铜丝屏蔽电缆外径上：总屏(VP_2)减少 0.5~1.0mm，对屏(P_2V)减少 0.5~2mm，对屏、总屏(P_2VP_2)减少 1~3mm。

②、铝塑复合带屏蔽电缆外形尺寸可参照铜带屏蔽电缆外形尺寸。

③、铠装电缆外形尺寸在相同规格电缆外形尺寸增加 2.5-4mm。

④、导体结构为 B 系列和 R 系列的，其外形尺寸在相同规格电缆外形尺寸上分别增加 2-3mm。

Remarks:①to get the sizes of cable with Cu tape shielding structure, on the basis of that of cable with Cu wire shielding structure:lower by 0.5~1.0mm for cable with general shielding (VP_2); lower by 0.5~2mm for cable with pair shielding (P_2V); lower by 2.5-4mm for cable with pair & general shieldings (P_2VP_2).

② See the sizes of cable with Al/Plastics tape shielding for those of cable with Cu tape shielding.

③ 2.5~4mm is added to the sizes of cable of same specifications to get that of armored cable.

④ 2mm and 3mm should be added on the sizes of cable of same specifications respectively to get those of B structure cable and R structure cable.

交货要求

1.电缆交货长度应不小于100m，允许长度不小于20m的短线段交货，其数量不超过总长度的10%；长度误差不超过±0.5%;

2.根据双方协议允许任何长度交货。

Cable Length:

1.It should be no less than 100 meters. Pieces of the cable no shorter than 20 meters are allowed for delivery accounting no more than 10% of the total length with length error allowance no more than ± 0.5%

2.It depends on both agreements.



本安信号控制电缆

Intrinsic Safety Type Signal Control Cable

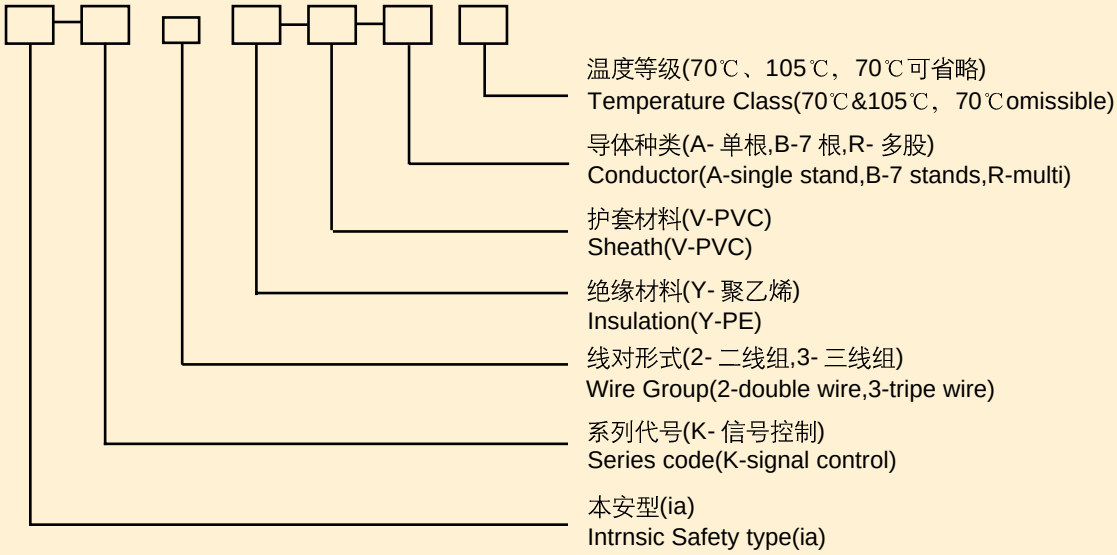
本产品广泛适用于化工和石油化学工业中等有爆炸性环境的自动化控制系统，监控回路及保护线路等各种本安电路中作为微弱信号的传输用；该产品除具有分布参数小的特点外，还采用加强屏蔽层，使其具有优良的抗外界电磁场干扰，抗射频干扰等性能。

It is widely used for faint signal transmission line in various intrinsic safety circuit in automatic control system, supervision and control return circuit, and protection circuit in the environment with explosion danger in chemical and petrochemical industry, and so on. Besides the character of small distribution parameter, it also boasts strong resistant character against the interference of outer electromagnetic field, radio frequency and so on with reinforced shielding layer.

生产执行标准
采用企业标准。

Executive Standard
as the enterprise's standard

型号命名代号　Type Naming:



产品型号、名称和使用条件　Type, Description & Application:

型 号　Type	名　称　Description	使 用 条 件　Application
ia-K_2YV	本安型聚乙烯绝缘阻燃聚氯乙烯护套,二芯绞合屏蔽控制电缆 Intrinsic safety control cable with PE insulation, flame-retardant PVC sheath & shieldings on 2 stranded cores	1、固定敷设在室内，电缆沟或管道中; to be fixedly laid indoor, in cable ferrow, or pipe. 2、电缆长期工作温度：70℃ & 105℃; Cable temperature for long-term working: 70℃ & 105℃ 3、最低环境温度: -15℃ Min. Ambient Temperature: -15℃ 4、电缆敷设温度：不低于0℃ Temperature for Installation: no lower than 0℃ 5、额定电压: 300/500V Rated Voltage: 300/500V 6、敷设时允许弯曲半径: 不小于电缆外径的10倍 Allowed Bending Radius in Installation: no less than 10 times that of cable outer diameter 7、应与非本安型电缆分开敷设或进行有效的隔离。 It should be installed in seperation from non-intrinsic safety cable or with effective seperation measures.
ia-K_2YVR	本安型聚乙烯绝缘阻燃聚氯乙烯护套, 二芯绞合屏蔽控制软电缆 Intrinsic safety soft control cable with PE insulation, flame-retardant PVC sheath & sheildings on 2 stranded cores	
ia-K_3YV	本安型聚乙烯绝缘阻燃聚氯乙烯护套, 三芯绞合屏蔽控制电缆 ntrinsic safety control cable with PE insulation, flame-retardant PVC sheath & shieldings on 3 stranded cores	
ia-K_3YVR	本安型聚乙烯绝缘阻燃聚氯乙烯护套, 三芯绞合屏蔽控制软电缆 ntrinsic safety soft control cable with PE insulation, flame-retardant PVC sheath & shieldings on 3 stranded cores	

注：⑴本产品可采用铜/铝复合膜绕包屏蔽，型号中的P应改为：铜塑复合带用P2表示，铝塑复合膜用P3表示；

⑵可根据需要生产钢带铠装本安型信号控制电缆，需在型号右下角加注代号“22”，如ia-K_2YV22

⑶如需耐温105℃时应在型号后注明，如ia-K_2YV105；（耐温70℃的可省略）

⑷二线组生产范围1~37对，三线组生产范围1~24对，只推荐表中所列对数。

例:铜芯R类结构，聚乙烯绝缘，二线组，聚氯乙烯护套，有加分屏蔽和总屏蔽10对1.0mm²表示为：ia-K2YVPR 10 × 2 × 1.0mm²

Remarks:⑴We adopt wrapping Cu/Al compound film for shielding,P_2in replace of P- represents Cu plastics compound tape, P_3 in replaceof P represents Alplastics compound film.

⑵We also produce intrinsic safety signal control cable with steel tape armor. ‘22’ should be added as lower mark on right hand, for example: ia-K_2YV22;

⑶It should be indicated for 105℃ heat-resistant cable, for example, ia-K2YV105 (that for 70℃ is omissible)

⑷Pair number for 2-wire group: 1~37 pairs Pair number for 3-wire group: 1~24 pairs Only pair numbers listed in the form are recommended.

for instance: The cable with Cu core, type R structure, PE insulation, 2-wire group, flame-retardant PVC sheath, separate and general reinforced shieldings, 10 pairs of wire with cross-section area 1.0mm2 each is described as: ia-K2YVPR 10 × 2 × 1.0mm²)

导体结构 Conductor Structure:

线芯标称截面 Nominal Cross-section Area of Conductor (mm²)	铜芯 Cu Core 根数/直径 Pieces/Diameter (mm)		
	A类	B类	R类
0.5	1/0.8	7/0.30	16/0.2
0.75	1/0.97	7/0.37	24/0.2
1.0	1/1.13	7/0.43	32/0.2
1.5	1/1.37	7/0.52	30/0.25
2.5	1/1.76	7/0.68	49/0.25

特性参数 Performance Parameters

序号 No.	性能项目 Performance Items		单位 Unit	性能指标 Performance Indices			
				0.75mm²	1.0mm²	1.5mm²	2.5mm²
1	导体直流电阻 D.C. Conductor Resistance	A,B类	⩽ Ω/km	24.5	18.1	12.1	7.41
		R类		26.0	19.5	13.3	7.98
2	工作电容 Working Capacitance		⩽ ρF/m	90			
3	分布电感 Distribution Inductance		⩽ μH/m	1.2			
4	抗外磁场干扰(400A/m) Interference Resistance of Outer Magnetic Field		⩽ mv	5			
5	抗静电干扰10kV Interference Resistance of Static Electricity		⩽ V	1			
6	抗射频干扰 Interference Resistance of Radio Frequency		⩽ dB	60			
7	绝缘电阻(20℃)（芯一芯,芯一屏） Insulation Resistance (20℃) (between conductor, between conductor & shielding		⩾ MΩ · km	500			
8	电压试验 (芯一芯,芯一屏) Voltage Test (between conductor, between conductor & shielding)		1kV / 5min	不击穿 without puncture			



电缆制造长度

电缆交货长度不小于100米，根据双方协议允许任何长度的电缆交货。

Cable Length:

It should be generally no less than 100 meters. It depends on both agreements.

用户常用的其他型号与本型号的对照 Contrast between Our Types & Others

本厂型号 Our Type	ia-K_2YVR ia-K_2YV	ia-K_3YVR ia-K_3YV
其他型号 Other Type	KJYYVP$_L$	KVVia
	IA-K_2YPV	KVVP$_L$
	ia-K_2YV(EX)	IA-KJVVP$_L$
	IA-K_2VPZV	
	ia-K_3YV(EX)	

本安型信号控制电缆结构尺寸 Structural Sizes:

参见计算机（屏蔽）用电缆。

Please make reference to Computer (Shielded) Cable section in the catalogue.

电缆规格，外径参考 Cable Specification & Outer Diameter Reference

ia-K_2YV

二线组电缆外径参考

Outer Diameter of 2-wire Group Cable

标称截面 mm² Nominal Cross-section Area	导体种类 Conductor Category	参考外径 Outer Diameter Reference (mm) 对数 Pair Number													
		1	2	3	4	5	6	7	8	9	10	12	14	16	19
0.5	A	7.5	10.5	11.5	12.5	14.0	16.0	16.5	17.0	19.0	19.5	21.0	22.5	24.0	25.5
	B	7.7	10.8	12.0	13.0	14.5	16.5	17.0	18.0	19.5	20.0	21.6	23.3	25.0	26.5
	R	8.0	11.5	13.0	14.1	15.5	17.5	18.0	19.0	20.0	21.0	23.7	25.2	27.0	28.0
0.75	A	8.0	12.0	12.0	13.0	15.5	16.5	17.0	19.5	20.2	21.0	22.2	24.3	25.3	27.0
	B	8.3	12.0	12.5	13.5	16.5	17.2	18.0	20.2	20.8	21.5	23.0	25.3	27.0	28.0
	R	8.5	12.6	13.7	15.0	17.8	18.0	19.5	21.5	22.1	22.8	24.8	27.5	29.5	30.3
1.0	A	8.0	12.5	12.5	15.0	16.5	17.5	18.5	20.5	22.0	22.0	23.0	25.0	27.2	28.0
	B	9.0	13.6	13.5	15.8	17.5	18.1	19.1	21.3	22.5	22.6	24.0	26.0	28.3	29.0
	R	10.0	14.4	14.0	16.5	18.8	19.2	20.5	22.6	24.2	25.3	26.2	28.5	30.5	31.2
1.5	A	9.0	13.3	15.0	16.0	17.0	19.5	21.0	22.0	23.5	24.0	25.0	27.0	29.0	30.5
	B	9.5	14.0	15.6	16.7	18.0	20.3	22.0	23.1	24.3	24.7	26.0	28.0	30.3	31.5
	R	11.0	15.0	16.4	18.0	19.3	21.0	23.5	24.6	25.9	27.0	28.0	30.5	33.0	34.0
2.5	A	9.5	15.5	16.5	17.0	19.0	22.5	23.0	25.0	27.0	27.0	29.0	31.0	31.6	35.0
	B	10.5	16.0	17.0	17.7	20.0	23.2	24.0	26.0	27.6	28.0	30.0	32.0	32.7	36.0
	R	12.0	17.5	18.0	18.7	21.5	24.5	25.5	27.6	29.5	30.7	32.3	34.4	35.2	38.0

ia-K_3YV

标称截面 mm^2 Nominal Cross-section Area	导体种类 Conductor Category	参考外径 Outer Diameter（Reference）(mm) 对数 Pair Number													
		1	2	3	4	5	6	7	8	9	10	12	14	16	19
0.5	A	8.0	12.0	14.0	15.0	17.0	19.0	19.0	21.0	23.5	25.0	26.0	27.2	28.7	30.4
	B	8.0	14.0	15.0	16.0	17.7	19.7	19.8	21.8	24.4	25.9	27.0	28.3	29.9	31.5
	R	8.8	15.0	15.6	16.5	18.8	20.9	21.0	23.2	26.0	27.5	28.7	30.0	31.7	33.4
0.75	A	8.3	15.0	15.5	16.5	18.0	20.0	20.1	22.5	25.0	26.0	27.3	28.8	30.3	32.0
	B	8.7	15.5	16.7	17.2	18.6	20.7	20.8	23.5	26.0	27.0	28.3	30.0	31.4	33.2
	R	9.3	16.5	17.5	18.3	19.7	22.0	22.1	25.0	27.8	29.0	30.4	32.0	33.5	35.4
1.0	A	8.5	16.0	16.5	17.5	20.0	21.5	21.6	24.0	26.2	28.0	28.6	30.2	32.0	33.7
	B	9.0	16.5	17.1	18.2	20.6	22.2	22.3	24.8	27.2	29.1	29.7	31.3	33.0	34.8
	R	9.6	17.7	18.0	19.2	21.7	23.5	23.6	26.5	29.3	31.1	31.8	33.4	35.1	37.2
1.5	A	9.1	16.0	17.0	19.0	21.0	23.0	23.0	25.5	28.4	30.0	31.0	32.5	34.0	36.0
	B	9.5	16.7	17.7	19.6	21.8	23.7	23.7	26.5	29.5	31.1	32.2	33.6	35.2	37.3
	R	10.1	17.6	18.8	21.0	23.0	25.5	25.6	28.3	31.8	33.3	34.5	36.0	37.4	39.6
2.5	A	11.0	19.5	21.0	23.0	25.0	37.5	27.6	30.0	33.5	34.0	36.5	38.0	40.0	43.5
	B	11.6	20.2	21.7	23.7	25.8	28.5	28.5	31.0	34.7	35.2	38.0	39.5	41.5	45.4
	R	12.2	21.0	22.5	24.6	27.0	30.0	30.1	33.5	37.5	38.5	40.5	42.0	44.5	48.3



信号电缆

Signal Cable

本产品适用于交流500V及以下铁路联络、火警信号、电报、自动信号装置及音频范围内的设备。

It is used for railway communication, fire alarming signal, telegraph, automatic signal device, and other equipments within audio frequency range of A.C. 500V or lower.

生产执行标准
采用企业标准

Executive Standard
as the enterprise's standard

使用条件

1.电缆在-40℃ ~ +50℃条件下使用，电缆允许敷设在任何水平差的线路;
2.电缆导体的长期允许工作温度+70℃;
3.普通型结构电缆适用于工频以下或直流设备;
4.综合扭绞电缆适用于音频范围以内设备及需要设置屏蔽电缆的电气化区段;
5.普通级电缆可在环境温度不低于0℃下敷设;
6.耐寒护套级电缆可在环境温度不低于-10℃下敷设;
7.敷设时弯曲半径不小于电缆外径的15倍。

Working Conditions:

1.The cable is used under ambient temperature of -40℃ ~ +50℃, it may be installed on the line with any level difference;
2.Allowed conductor temperature for long-term working is +70℃;
3.The cable of common structure is suitable for the equipment under working frequency or D.C. equipments;
4.The cable with complex stranded core is suitable for the equipments within audio frequency range and electric division with need of shielded cable;
5.The common cable may be laid under environment temperature of no lower than0℃;
6.The cable with coldness-proof sheath may be laid under environment temperature no lower than-10℃;
7.Cable bending radius for installation should be no less than 15 times that of cable outer diameter.

电缆的型号、字母的编制及其含义　Type Naming

类别、用途 Category	导 体 Conductor	绝 缘 Insulation	护 套 Sheath	派 生 Structure Indication
P －信号电缆 P—Signal Cable	T －铜芯(一般省略) T—Cu core (Generally Omitted)	V －聚氯乙烯 V—PVC Y －聚乙烯 Y—PE	V －聚氯乙烯 V—PVC	22(29) －钢带铠装 22(29)—Steel Tape Armor P －屏蔽层 P—Shielding

电缆的型号及使用范围　Cable Type & Application Range

型 号 Type	使 用 范 围 Application Range
PVV、PYV	敷设在槽、管中能承受一般的机械外力 to be laid in trough, pipe, and sustainable with common mechanical force outside
PVV22、PYV22	敷设在槽、管中能承受较大机械外力 to be laid in trough, pipe, and sustainable with stronger mechanical force outside.

注：可生产带“P”屏蔽信号电缆，屏蔽材料为铜丝或镀锡铜丝。

Remarks:We produce signal cable with shielding of Cu wire or tinned Cu wire. The types include PVVP, PVVP22, etc.

电缆的规格范围

1、导电线芯直径：0.8mm、1.0mm;
2、电缆芯数：2~61芯;
3、电缆的外形尺寸参考下表规定。

Specification Range

1.Core Diameter: 0.8mm, 1.0mm;
2.Core Number: 2~61cores
3.Cable Sizes: see the stipulations in the following forms

PVV、PYV型
PVV, PYV types

线芯直径 Core Diameter	0.8mm			1.0mm		
芯 数 Core Number	外径(mm) Outer Diameter	重量(kg/km) Weight		外径(mm) Outer Diameter	重量(kg/km) Weight	
		PVV	PYV		PVV	PYV
2	7.56	59.0	57.1	7.96	67.9	85.6
3	7.87	70.3	67.5	8.30	82.3	78.8
4	8.39	83.0	78.9	8.87	98.5	93.9
5	8.96	97.1	92.1	9.50	116	110
6	9.56	104	97.9	10.16	126	120
7	9.56	111	104	10.16	136	128
8	10.16	126	17	10.82	155	145
9	10.96	144	133	11.70	179	166
10	11.56	151	141	12.36	187	176
12	11.87	170	158	12.70	213	199
14	12.39	191	177	13.27	240	223
16	12.96	215	197	13.90	269	250
19	13.56	235	216	14.56	300	278
21	14.16	258	236	15.22	330	305
24	15.56	291	267	16.76	372	345
27	15.87	319	291	17.10	409	377
30	16.39	347	316	17.67	447	412
33	16.96	377	344	18.70	503	464
37	17.56	407	370	19.36	546	503
42	19.96	479	437	21.56	620	571
44	19.96	497	452	21.56	642	591
48	20.27	532	483	21.90	689	634
61	21.96	645	583	23.76	863	793

注：屏蔽型电缆外径在此基础上增加 1~2mm

Remarks:It should be increased by 1~2mm based on data above for outer diameter of shielded cable.

PVV22、PYV22型
PVV22, PYV22 types

线芯直径 Core Diameter	0.8mm			1.0mm		
芯 数 Core Number	外径(mm) Outer Diameter	重量(kg/km) Weight		外径(mm) Outer Diameter	重量(kg/km) Weight	
		PVV22	PYV22		PVV22	PYV22
2	11.56	184	182	11.76	198	196
3	11.67	199	196	12.10	217	214
4	12.19	219	215	12.67	242	237
5	12.76	242	237	13.30	208	262
6	13.36	257	251	13.96	288	282
7	13.36	264	257	13.96	298	290
8	13.96	288	279	14.62	326	316
9	14.76	317	306	15.50	363	350
10	15.36	333	323	16.56	436	425
12	15.67	356	344	16.90	469	455
14	16.59	442	428	17.47	507	490
16	17.16	474	458	18.10	547	528



续表

线芯直径 Core Diameter	0.8mm			1.0mm		
芯 数 Core Number	外径(mm) Outer Diameter	重量(kg/km) Weight		外径(mm) Outer Diameter	重量(kg/km) Weight	
		PVV22	PYV22		PVV22	PYV22
19	17.76	506	487	19.16	606	584
21	18.76	556	534	19.82	648	623
24	20.16	617	593	22.16	874	847
27	20.47	650	622	22.50	920	888
30	21.79	839	808	25.07	975	940
33	22.36	885	852	24.10	1052	1013
37	22.96	932	895	24.76	1113	1070
42	25.36	1062	1020	26.96	1269	1218
44	25.36	1080	1035	26.96	1269	1218
48	25.67	1124	1075	27.30	1325	1270
61	27.36	1284	1222	30.16	1590	1520

注：屏蔽型电缆外径在此基础上增加 1~2mm

Remarks:It should be increased by 1~2mm based on data above for outer diameter of shielded cable.

技术性能 Technical Performance

1.成品电缆导电线芯直流电阻

1.D.C. Conductor Resistance of Finished Cable

导电线芯直径 mm Conductor Diameter	20℃时电缆导电线芯直流电阻 D.C. Resistance of Cable Conductor Ω/Km ⩽
0.8	36.0
1.0	23.5

2.成品电缆线芯间及线芯对钢带间的绝缘电阻，换算到长度为 1km 和温度为 20℃时,应不小于 25MW。

3.电缆应经受 1500V 电压试验 5min 不击穿。

2.The insulation resistance between cable cores or between core and steel tape should be no less than 25MW under condition that cable length is 1km and environment temperature is 20℃.

3.The cable could endure voltage test of 1500V for 5 minutes without puncture.

交货长度 Cable Length

根据双方协议，允许任何长度的电缆交货。

It depends on both agreements.

仪表用电缆

Instrument Cable

该电缆适用于电站、矿山、石油、化工、发电厂等检测和控制用计算机系统或自动控制装置上。

It is used for test & control computer system or automatic control devices in power station, mine, petroleum industry, chemical industry, power plant, etc.

生产执行标准
采用企业标准

Executive Standard
as the enterprise's enterprise

使用条件

电缆的交流额定电压为 380V 或直流电压 500V 及以下; 电缆的长期工作温度应不超过 70℃。

Working Conditions

A.C. Rated Voltage: 380V D.C. Voltage: 500V or lower; Cable Temperature for Long-term Working: no higher than 70℃.

型号、名称、使用条件　Type, Description & Application

型 号　Type	名　称　Description	使 用 条 件　Application
YVV	聚氯乙烯绝缘和护套仪表用电缆 Instrument Cable with PVC Insulation & Sheath	固定敷设在室内、隧道内、管道中或户外托架敷设，敷设时环境温度不低 于 0℃，弯曲半径不小于电缆外径的 10 倍。 To be laid indoor, in tunnel, pipe or outdoor with supporting stand under environment temperature no lower than 0℃; Bending radius should be no less than 10 times that of cable outer diameter.
YVVP	聚氯乙烯绝缘和护套仪表用屏蔽电缆 Shielded Instrument Cable with PVC Insulation & Sheath	
YYJV	交联聚乙烯绝缘仪表用电缆 Instrument Cable with XLPE Insulation	
YYJVP	交联聚乙烯绝缘仪表用屏蔽电缆 Shielded Instrument Cable with XLPE Insulation	

注: 1、可生产 “ZRA”、“ZRB”、“ZRC” 阻燃型仪表用电缆, ZRA-YVV, ZRB-YVVP 等;
2、电缆导体及屏蔽层为铜芯或镀锡铜芯。

Remarks:1.We may produce "ZRA", "ZRB", "ZRC" types of fire-retardant instrument cable, ZRA-YVV, ZRB-YVVP, and so on.
2.The conductor and shielding layer is copper core or tinned copper core.

技术性能

1.防干扰性能高，电气性能稳定;
2.能在交流 300V 及以下传输数字信号和模拟信号;
3.阻燃仪表用电缆的阻燃性能（氧指数≥ 30）;
4.其它性能指标可参照信号电缆。

Technical Performance:

1.It has good interference-resistant performance and stable electric performance;
2.It could transmit digital and modulant signals under A.C. 300V or lower;
3.Good flame-retardant performance (Oxygen Index ⩾ 30);
4.PLS make reference to Signal Cable section for other performance indices.

规格范围

1、芯数：2 ~ 24 芯；截面：0.5 ~ 2.5 mm^2(导体结构为 B 类或 R 类结构)；
2、电缆外形尺寸参考 KVV、KVVP、KYJVP 型电缆尺寸。

Specification Range:

1.Core Number: 2 ~ 24 cores; Cross-section Area: 0.5~2.5 mm^2 (Conductor Structure: B or R);
2.Please see the sizes of KVV, KVVP, KYJVP type cable for the cable size.

交货长度

按双方协议规定。

Cable Length:

It depends on both agreements.



船用射频电缆

Ship RF Cable

本产品适用于各种河海船舶及海上石油平台等各种水上建筑物，连接高频信号和对地不对称的调频信号设备；如用作无线电和雷达设备的连接。

It is used for the connection with HF signal equipments and FM signal equipments to the ground on various ships, offshore platform and other buildings overwater.

生产执行标准
GB9334-88

Executive Standard
GB9334-88

型号、名称　Type & Description

表1　Form 1

型 号 Type	名　称　Description
CSYV	铜导体实芯聚乙烯绝缘聚氯乙烯外套船用同轴射频电缆 Ship coaxial RF cable with solid Cu conductor, PE insulation & PVC sheath
CSYV90	铜导体实芯聚乙烯绝缘聚氯乙烯内套裸钢丝编织铠装船用同轴射频电缆 Ship coaxial RF cable with solid Cu conductor, PE insulation, PVC inner sheath & armor of braided bare steel wire
CSFF	镀银铜导体聚四氟乙烯绝缘聚四氟乙烯护套玻璃丝编织护层船用同轴射频电缆 Ship coaxial RF cable with silver galvanized Cu conductor, PTFE insulation & sheath, and protectio layer of braided glass wire

使用特性

额定阻抗为50Ω，如表2、表3;
额定阻抗为75Ω，如表4、表5:

Performance Demands

See Form 2~3 for those of rated impedance 50Ω;
See Form4~5 for those of rated impedance 75Ω.

表2 CSYV、CSYV90型
Form 2　CSYV & CSYV90 types

规 格 Specification	电 容(pF/m) Capacitance	速比 Speed Ratio	最大交流电压(kV)峰值 Max . A.C. Voltage	最大脉冲电压(kV)峰值 Max. Pulse Voltage	弯曲半径 mm Bending Radius		最低弯曲温度 ℃ Min.Temperature for Bending℃
					室 内 indoor	室外 outdoor	
50-7-2	100	0.66	6.5	13	5D ①	10D ①	-40
50-7-6	100	0.66	6.5	13			
50-12-1	100	0.66	9.5	19			
50-17-2	100	0.66	15	30			
50-17-3	100	0.66	15	30			

① D- 电缆外径(下同)　　D-Cable Outer Diameter (The following remains the same as it.)

表3　CSFF型
Form 3　CSFF type

规 格 Specification	电 容(pF/m) Capacitance	速比 Speed Ratio	最大交流电压(kV)峰值 Max . A.C. Voltage	最大脉冲电压(kV)峰值 Max. Pulse Voltage	弯曲半径 mm Bending Radius		最低弯曲温度 MinTemperature for Bending℃
					室 内 indoor	室外 outdoor	
50-7-8	94	0.70	6.5	13	5D	10D	-55

表4 CSYV、CSYV90型
Form 4 CSYV & CSYV90 types

规 格 Specification	电 容(pF/m) Capacitance	速比 Speed Ratio	最大交流 电压(kV)峰值 Max . A.C. Voltage	最大脉冲 电压(kV)峰值 Max. Pulse Voltage	弯曲半径 mm Bending Radius		最低弯曲温度℃ Min.Temperature for Bending℃
					室 内 indoor	室外 outdoor	
75-4-1	67	0.66	2.6	5.2	5D	10D	-40
75-4-2	67	0.66	2.6	5.2			
75-7-2	67	0.66	5.0	10			
75-7-3	67	0.66	5.0	10			
75-17-2	67	0.66	12.5	25			

表5 CSFF型
Form 5 CSFF type

规 格 Specification	电 容(pF/m) Capacitance	速比 Speed Ratio	最大交流 电压(kV)峰值 Max . A.C. Voltage	最大脉冲 电压(kV)峰值 Max. Pulse Voltage	弯曲半径 mm Bending Radius		最低弯曲温度 Min.Temperature for Bending ℃
					室 内 indoor	室外 outdoor	
75-7-11	63	0.70	6.5	11	5D	10D	-50

产品规格 Specifications

CSYV及CSYV90型，额定阻抗50W
CSYV & CSYV90 types Rated Impedance 50W

规 格 Specification	内 导 体 Inner Conductor		外导体材料 Outer Conductor		护套外径(mm) heath Outer Diameter			铠装外径最大 Armor Outer Diameter (mm) Max.(mm)
	材 料 Material	结 构 Structure	内 层 Inner Layer	外 层 Outer Layer	最 小 Min	标 称 Nominal	最 大 Maxr	
50-7-2	韧铜线 Annealed Cu wire	7/0.75	--	韧铜线 Annealed Cu wire	10.0	10.3	10.6	12.5
50-7-6		7/0.75	镀银铜线 Silver Galvanized CuWire		10.7	11.0	11.3	13.0
50-12-1		7/1.15	--		14.6	15.0	15.4	17.0
50-17-2		1/5.0	--		21.5	22.0	22.5	24.0
50-17-3		1/5.0	韧铜线 Annealed Cu wire		22.2	22.7	23.2	25.0

CSFF型，额定阻抗50W
CSFF type, Rated Impedance 50W

规 格 Specification	内 导 体 Inner Conductor		外导体材料 Outer Conductor		护套外径(mm) heath Outer Diameter		
	材 料 Material	结 构 Structure	内 层 Inner Layer	外 层 Outer Layer	最 小 Min	标 称 Nominal	最 大 Maxr
50-7-8	镀银铜线 Silver Galvanized Cu Wire	7/0.82	镀银铜线 Silver Galvanized Cu Wire	镀银铜线 Silver Galvanized Cu Wire	10.3	10.8	11.3



CSYV 及 CSYV90 型，额定阻抗 75W
CSYV, CSYV90 types Rated Impedance 75W

规 格 Specification	内 导 体 Inner Conductor		外导体材料 Outer Conductor		护套外径(mm) heath Outer Diameter			铠装外径最大 Armor Outer Diameter (mm) Max.
	材 料 Material	结 构 Structure	内 层 Inner Layer	外 层 Outer Layer	最 小 Min	标 称 Nominal	最 大 Maxr	
75-4-1	韧铜线 Annealed Cu wire	7/0.21	--	韧铜线 Annealed Cu wire	5.8	6.0	6.2	8.0
75-4-2		7/0.21	韧铜线 Annealed Cu wire		6.5	6.7	6.9	9.0
75-7-2		7/0.40	--		10.0	10.3	10.6	12.5
75-7-3		7/0.40	韧铜线 Annealed Cu wire		10.7	11.0	11.3	13.0
75-17-2		1/2.70	--		21.5	22.0	22.5	24.0

CSFF 型，额定阻抗 75W
CSFF type, Rated Impedance 75W

规 格 Specification	内 导 体 Inner Conductor		外导体材料 Outer Conductor		护套外径(mm) heath Outer Diameter		
	材 料 Material	结 构 Structure	内 层 Inner Layer	外 层 Outer Layer	最 小 Min	标 称 Nominal	最 大 Maxr
75-7-11	镀银铜包钢线Ⅰ级 Silver Galvanized CS Class Ⅰ	7/0.75	--	镀银铜线 Silver Galvanized Cu Wire	待定 to be decided	待定 to be decided	待定 to be decided

交货要求

1.实芯聚乙烯绝缘电缆不小于 100 米，短段不小于 10 长;

2.实芯聚四氟乙烯绝缘电缆不小于 45 米，短段不小于 3 米;

3.短段电缆交货数量不超过交货长度的 15%;

4.根据双方协议，可以任何长度的电缆交货；长度计量误差应不超过 ± 0.5%。

Cable Length

1.The cable with PE insulation should be no shorter than 100 meters , and shorter cable should be no shorter than 10 meters;

2.The cable with PTFE insulation should be no shorter than 45 meters, and shorter pieces of cable should be no shorter than 3 meters.

3.The length of shorter pieces accounts no more than 15% of the total.

4.It depends on both agreements with length error allowance no more than ± 0.5%.

电缆分配系统用纵孔聚乙烯绝缘同轴射频电缆

Cell PE Insulation Coaxial RF Cable for Cable Distribution System

本产品适用于闭路电视和共用天线电视信号分配系统作分支线和用户线以及其它电子装置用。

It is used as branch cable and user cabl forsignaldistribution system of closed circuit TV and common antenna TV, or for other electronic devices.

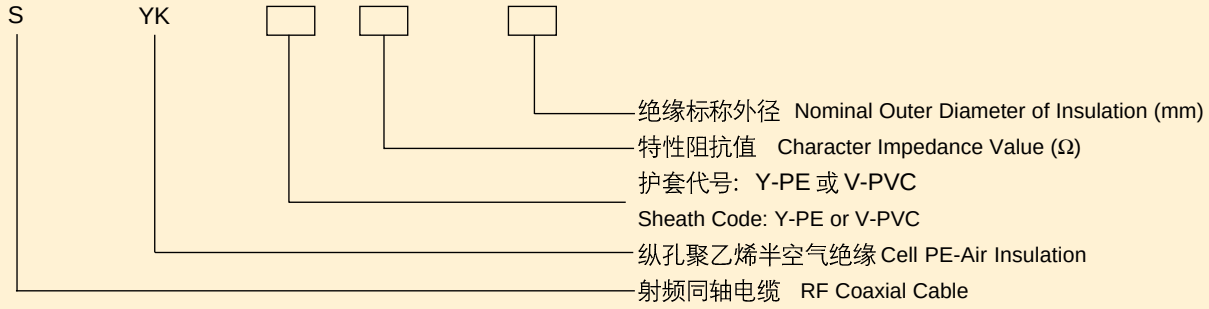
生产执行标准
采用企业标准

Executive Standard:
as the enterprise's standard

型号、名称 Type & Description

型 号 Type	名 称 Description
SYKV-75-5	电缆分配系统用纵孔聚乙烯绝缘聚氯乙烯护套同轴电缆
SYKV-75-7	Coaxial Cable with Cell PE Insulation & PVC Sheath for Cable Distribution System
SYKY-75-7	电缆分配系统用纵孔聚乙烯绝缘聚乙烯护套同轴电缆
SYKY-75-9	Coaxial Cable with Cell PE Insulation & PE Sheath for Cable Distribution System

型号组成的字母和数码含义为 Type Naming Method



使用条件

1.电缆传输特性阻抗 75W;
2.电缆允许工作环境温度聚氯乙烯护套为-25 ~ +70℃，聚乙烯护套为 -40 ~ +70℃;
3.电缆弯曲最低温度 -15℃;
4.相对湿度：当温度为 40 ± 2℃时为 90 ~ 95%;
5.电缆允许弯曲半径：室外不小于 20 倍外径，室内不小于 10 倍外径;
6.电缆使用频率为 50 ~ 960MHz。

Working Conditions:

1.Transmission character impedance of the cable: 75W;
2.Cable Working Temperature Allowance: -25 ~ +70℃ for the cable with PVC sheath, -40 ~ +70℃ for that with PE sheath;
3.The Lowest Temperature for Bending the Cable: -15℃;
4.Relative Humidity: 90 ~ 95% at 40 ± 2℃;
5.Cable Bending Radius Allowed: no less than 20 times that of outer diameter (outdoor), no less than 10 times that of outer diameter (indoor);
6.Cable Working Frequency: 50 ~ 960MHz.



规格尺寸 Specifications

SYKV(Y)型，额定阻抗 75W
SYKV(Y) type, Rated Impedance 75W

型 号 Type	内导体结构 Inner Conductor Sructure	绝缘外径 (mm) Insulation Outer Diameter	护套厚度(mm) Outer Conductor		电缆最大外径 Max. Cable Outer Diameter(mm)
	根数直径 Piece/Diameter(mm)		最小 Min	标称 Nominal	
SYKV-75-5	1/1.00	4.8 ± 0.2	0.69	0.88	7.20
SYKV-75-7	1/1.60	7.25 ± 0.3	0.85	1.05	10.3
SYKY-75-7					
SYKY-75-9	1/2.00	9.0 ± 0.4	0.96	1.18	12.2

电缆的电性能
Cable Electric Performance

型 号 Type	缆芯介电强度 40～60Hz1min ⩾(kV) Conductor Diaelectric Strength 40~60Hz 1min ⩾(kV)	绝缘电阻 500V(直流) ⩾(MΩ · km) Insulation Resistance 500V (D.C.) ⩾(MΩ · km)	护套介电强度 40~60Hz ⩾(kV) Sheath Diaelectric Strength 40~60Hz ⩾(kV)		特性阻抗 Character Impedance (Ω)	最大衰减 (dB/100M) Max. Cable Outer Diameter(mm)		
			浸水试验 Water Immersion Test	火花试验 Spark Test		50 MHz	200 MHz	800 MHz
SYKV-75-5	1.6	5000	2.0	3.0	75 ± 3	5.3	10.8	22.9
SYKV-75-7			3.0	5.0	75 ± 2.5	3.4	7.1	15.2
SYKY-75-7								
SYKY-75-9			5.0	8.0		2.8	5.7	12.5

交货要求

1.电缆交货长度不短于 100m，允许长度不小于 20m 的短段交货，其数量应不超过交货总长的 10%;

2.根据双方协议允许任何长度交货，长度计量误差为 ± 0.5%。

Cable Length:

1.It should be no less than 100 meters, and pieces of the cable no shorter than 20 meters are allowed for delivery accounting no more than 10% of the total length.

2.It depends on both agreements with length error allowance no more than ± 0.5%.

聚乙烯绝缘导引电缆

Guiding Cable with PE Insulation

该产品与高压电力电缆平行敷设在沟道中或水底，作为差纵保护和配电装置中电器、仪表等传输各种信号，电话通信和载波通信以及高频信号等用途。该产品广泛适用于水力发电站、大型电厂、变电站等场所。

It is laid in furrow, or underground in parrellel with high-voltage power cable for vertical protection and transmission of signal for electric equipments or instruments in power distribution devices, telephone communication signal, carriercommunication signal and HF signal. It is widely adopted for hydropower station, large power plant, and power substation, etc.

生产执行标准
采用企业标准。

Executive Standard
as the enterprise's standard

电缆型号、规格及使用范围
Type, Specification & Application Range

型 号 Type	对 数 Pair No	线芯结构 Core Structure ϕ mm	适 用 范 围 Application Range
DYVP	4~30	1/0.9 1/1.38	敷设在室内、电缆沟中、管道内、地下、水底易燃以及严重腐蚀的环境。 To be laid indoor, in cable furrow, pipe, underground, for the environment with strong corrosion.
DYYP			
$DYVP_3$			
$DYYP_3$			
DYV32	7~19		
DYY33			

技术要求

1、导体应符合 GB/T 3953—1997 中规定，TR 圆铜线表面光洁，无氧化变色等缺陷;

2、绝缘为聚乙烯，其表面光洁、平整;

3、可与电力电缆同沟敷设，主要采用直埋方式;

4、电缆工作环境温度范围：聚乙烯外护套时：-30℃ ~ 60℃ 聚氯乙烯外护套时：-15℃ ~ 60℃

5、电缆敷设时环境温度不低于 -5℃，其弯曲半径不得小于电缆外径的 30 倍;

Technical Demands:

1.The conductor should comply with the stipulations in GB/T 3953—1997 standard, the surface of TR circular Cu wire should be clean, smooth, and without oxidized parts;

2.The surface of PE insulation should be clean and smooth;

3.The cable is directly buried in cable furrow with power cable.

4.Environment temperature for operation: for cable with PE sheath: -30℃ ~60℃ for cable with PVC sheath: -15℃~60℃

5.Environment temperature for laying the cable should be no lower than-5℃, and bending radius should be no maller than 30 times that of cable outer diameter.

电缆主要性能指标应符合表 2 规定
Technical Indices: see Form2

线芯结构 ϕmm Core Structure	20℃时电缆线对直流回路电阻 D.C. Return Circuit Resistance at 20℃ ⩽ Ω/km	电缆绝缘电阻 Insulation Resistance ⩾ MΩ/km	电缆线对电容 Capacitance between wire couple ⩽ μF/km	耐压强度 kV 50Hz. 1min Voltage-enduring Strength	
				芯—芯 Core-- core	芯—屏蔽 Core--shielding
1/0.9 1/1.3 8	35.8 12.1	2000	55	5	15



外形尺寸 Structural Sizes

规格 Specification	电缆外径 Cable Outer Diameter mm	
对数 × 芯数 × 导体截面 Pair Number × Core Number × Conductor Cross Section Area mm^2	DYVP DYVP$_3$ DYYP DYYP$_3$	DYY32 DYY33
4 × 2 × 0.9	23.5	27.4
7 × 2 × 0.9	26.9	30.8
10 × 2 × 0.9	32.7	36.6
12 × 2 × 0.9	33.6	37.5
14 × 2 × 0.9	35.1	39.0
16 × 2 × 0.9	35.8	40.6
19 × 2 × 0.9	38.5	42.4
24 × 2 × 0.9	44.3	48.4
27 × 2 × 0.9	45.2	49.1
30 × 2 × 0.9	46.7	50.6
4 × 2 × 1.38	25.8	29.7
7 × 2 × 1.38	30.0	33.7
10 × 2 × 1.38	36.5	40.4
12 × 2 × 1.38	38.6	41.5
14 × 2 × 1.38	39.3	43.2
16 × 2 × 1.38	41.3	45.2
19 × 2 × 1.38	43.3	47.2
24 × 2 × 1.38	50.1	53.9
27 × 2 × 1.38	51.7	55.0
30 × 2 × 1.38	52.9	56.8

交货长度

根据双方协议允许任何长度交货，长度计量误差为 ± 1%。

Cable Length:

It depends on both agreements with length error allowance no more than ± 1%.

市内通信电缆

Local Telecommunication Cable

本产品用于城镇及市郊通信线路上敷设使用。

It is used for telecommunication lines in cities, towns, and suburbs.

生产执行标准
GB/T 13849.2-1993

Executive Standard
GB/T 13849.2-1993

型名、名称

1.HYV 型铜芯聚乙烯绝缘聚氯乙烯护套市内通信电缆;
2.HYVC型铜芯聚乙烯绝缘聚氯乙烯护套自承式市内通信电缆;
3.HYA 型铜芯聚乙烯绝缘挡潮型综合护套市内通信电缆。

Type & Description

1.HYV type local telecommunication cable with Cu conductor, PE insulation & PVC sheath,
2.HYVC type self-supporting local telecommunication cable with Cu conductor, PE insulation & PVC sheath
3.HYA type local telecommunication cable with Cu conductor, PE insulation & moisture-proof compound sheath

规格范围
Specification Range

型 号 Type	导线直径 Conductor Diameter (mm)			
	0.4	0.5	0.6	0.7
	线芯对数 Core Pair Number			
HYV	10~800	10~400	10~400	10~400
HYVC	10~300	10~300	10~200	10~100
HYA	10~800	10~600	10~500	10~300

结构尺寸

根据用户需要另行提供。

Structural Sizes

We provide customers separately with them as demands.

交货长度

电缆制造长度按订货协议。

Cable Length

It depends on both agreements.



实芯聚乙烯绝缘射频电缆

RF Cable with Solid Core & PE Insulation

适用于无线电通讯广播设备和有关无线电电子设备中传输射频信号。

It is used to transmit RF signal for radio communication & broadcasting equipments and concerned electronic devices.

生产执行标准
SJ1132 及 GB9023-1992。

Executive Standard:
SJ1132 & GB9023-1992.

使用温度

SYV、SEYV 系列为：-40~65℃；SWY、WEWY 系列为：-55~85℃。

Working Temperature:

SYV, SEYV series: -40~65℃; SWY, WEWY series: -55~85℃;

相对湿度

40℃时达 98%，安装敷设温度不低于-15℃。

Relative Humidity:

98% at 40℃; The temperature for installation should be no lower than -15℃.

允许最小弯曲半径

室内使用时不少于 5 倍电缆外径，室外使用不小于 10 倍电缆外径。

Min. Bending Radius Allowed:

It should be no less than 5 times that of cable outer diameter for indoor usage, and no less than 10 times for outdoor usage.

型号及名称 Type & Description

型号 Type	名　　称 Description
SYV	实芯聚乙烯绝缘，聚氯乙烯护套同轴射频电缆 Coaxial RF cable with solid core, PE insulation & PVC sheath
SEYV	实芯聚乙烯绝缘，聚氯乙烯护套对称射频电缆 Symmetric RF cable with solid core, PE insulation & PVC sheath
SWY	稳定聚乙烯绝缘，耐光热聚乙烯护套同轴射频电缆 Coaxial RF cable with stable PE insulation, sunlight & heat-resistant PE sheath
SEWY	稳定聚乙烯绝缘，耐光热聚乙烯护套对称射频电缆 Symmetric RF cable with stable PE insulation, sunlight & heat-resistant PE sheath

规格、结构尺寸 Specification & Structural Sizes

SEYV 及 SEWY 型
SEYV & SEWY Types

型 号 Type	内 导 体 Inner Condutor		绝缘外径 Insulation Outer Diameter(mm)	电缆外径 Cable Outer Diameter(mm)
	根数 / 直径 Pieces/Diameter(mm)	外径 Outer Diameter(mm)		
-75-2	7/0.31	0.93	1.6 ± 0.10	7.3 ± 0.30
-100-2	1/0.79	0.79	1.6 ± 0.10	6.0 ± 0.25
-100-6-1	7/0.79	2.37	6.3 ± 0.20	15.8 ± 0.5
-100-6-2	7/0.79	2.37	6.3 ± 0.20	16.6 ± 0.50
-150-7	7/0.40	1.20	7.3 ± 0.25	11.5 ± 0.40 × 19.7 ± 0.50
-200-7	1/0.60	0.60	7.3 ± 0.25	11.5 ± 0.40 × 19.7 ± 0.50

SYV 及 SWY 型 SYV & SWY Types

型 号 Type	内 导 体 Inner Condutor		绝缘外径 Insulation Outer Diameter(mm)	电缆外径 Cable Outer Diameter(mm)
	根数 / 直径 Pieces/Diameter(mm)	外径 Outer Diameter(mm)		
-50-1	7/0.09	0.27	0.87 ± 0.05	1.9 ± 0.10
-50-2-1	7/0.15	0.45	1.5 ± 0.10	2.9 ± 0.10
-50-2-2	1/0.68	0.68	2.2 ± 0.10	4.0 ± 0.20
-50-3	1/0.9	0.90	3.0 ± 0.15	5.0 ± 0.25
-50-5-1	1/1.37	1.37	4.6 ± 0.20	7.0 ± 0.30
-50-5-2	1/1.37	1.37	4.6 ± 0.20	7.8 ± 0.30
-50-7-1	7/0.76	2.28	7.3 ± 0.25	10.2 ± 0.30
-50-7-2	7/0.76	2.28	7.3 ± 0.25	11.2 ± 0.30
-50-9	7/0.95	2.85	9.0 ± 0.30	12.4 ± 0.40
-50-12	7/1.2	3.60	11.5 ± 0.40	15 ± 0.50
-50-15	7/1.54	4.62	15 ± 0.50	19 ± 0.50
-50-17	19/1.04	5.2	17.3 ± 0.70	22.2 ± 0.60
-50-23-1	19/1.37	6.85	23 ± 1.0	28.8 ± 0.70
-50-28-1	19/1.65	8.25	28.0 ± 1.0	34.5 ± 0.80
-75-2	7/0.08	0.24	1.5 ± 0.10	2.9 ± 0.10
-75-3	7/0.17	0.51	3.0 ± 0.15	5.0 ± 0.25
-75-5-1	1/0.72	0.72	4.6 ± 0.20	7.1 ± 0.30
-75-5-2	7/0.26	0.78	4.6 ± 0.20	7.1 ± 0.30
-75-7	7/0.4	1.2	7.3 ± 0.25	10.2 ± 0.30
-75-9	1/1.37	1.37	9.0 ± 0.30	12.4 ± 0.40
-75-12	7/0.64	1.92	11.5 ± 0.40	15.0 ± 0.50
-75-15	7/0.82	2.46	15.0 ± 0.50	19.0 ± 0.50
-75-17	7/0.95	2.85	17.3 ± 0.70	22.2 ± 0.60
-75-23-1	7/1.27	3.81	23 ± 1.0	28.8 ± 0.70
-75-28-1	7/1.5	4.5	28 ± 1.0	34.5 ± 0.80

技术性能参数如表 Technical Performance

SYV 及 SWY 型 SYV & SWY Types

型 号 Type	特性阻抗 Character Impedance (Ω)	衰减常数不大于 Attenuation ≯ dB/m			电容不大于 Capacitance ≯ pF/m	试验电压 Testing Voltage 50Hz kV	灭晕电压不低于 kV Corona-free Voltage ≥	绝缘电阻不小于 MΩ/km Insulation Resistance ≮ MΩ/km	参 考 指 标					
		30 MHz	200 MHz	3000 MHz					平均功率 kW Average Power				峰值功率 kW Max. Power	最高使用频率 Max. Working Frequency MHz
									30MHz		200MHz			
									SYV	SWY	SYV	SWY		
-50-1	50 ± 2.5	0.336	0.873	4.36	115	1.0	0.5	10000						10000
-50-2-1	50 ± 3.5	0.203	0.524	2.69	115	2.0	1.0	10000						10000
-50-2-2	50 ± 2.5	0.129	0.341	1.855	115	3.0	1.5	10000						10000
-50-3	50 ± 2.5	0.100	0.264	1.482	115	4.0	2.0	10000						10000
-50-5-1	50 ± 2.5	0.0664	0.181	1.062	115	6.0	3.0	10000						10000
-50-5-2	50 ± 2.5	0.0664	0.181	1.062	115	6.0	3.0	10000						10000
-50-7-1	50 ± 2.5	0.0497	0.137	0.851	115	9.0	4.0	10000						10000
-50-7-2	50 ± 2.5	0.0497	0.137	0.851	115	9.0	4.0	10000						10000
-50-9	50 ± 2.5	0.0396	0.111	0.724	115	11.0	5.0	10000	1.53	2.54	0.56	0.92	3.8	10000
-50-12	50 ± 2.5	0.0337	0.0956	0.656	115	11.0	6.5	10000	2.03	3.33	0.73	1.21	6.7	8370
-50-15	50 ± 2.5	0.0273	0.0788	0.574	115	19.0	9.0	10000	2.89	4.67	1.00	1.645	12.4	6440
-50-17	50 ± 2.5	0.0243	0.0713	0.546	115	21.0	10	10000	3.48	5.87	1.21	2.03	15.2	5620
-50-23-1	50 ± 2.5	0.0211	0.0621	0.496	115	28	13	10000	4.62	7.56	1.57	2.57	26	4230
-50-28-1	50 ± 2.5	0.0190	0.0585	0.472	115	36	18	10000	6.02	10.1	1.99	3.36	47	2880
-75-2	75 ± 5	0.22	0.579	2.97	76	1.5	0.75	10000						10000
-75-3	75 ± 3	0.122	0.308	1.676	76	3	1.5	10000						10000
-75-5-1	75 ± 3	0.0706	0.190	1.028	76	5	2.5	10000						10000
-75-5-2	75 ± 3	0.0785	0.211	1.21	76	5	2.5	10000						10000
-75-7	75 ± 3	0.0510	0.140	0.864	76	7.5	3	10000						10000
-75-9	75 ± 3	0.0369	0.104	0.693	76	10	4.5	10000	1.43	2.29	0.50	0.825	2.04	10000



型 号 Type	特性阻抗 Character Impedance (Ω)	衰减常数不大于 Attenuation Constant ⩽ dB/m			电容不大于 Capacitance ⩽ pF/m	试验电压 Test Voltage 50Hz kV	灭晕电压不低于 kV Corona-free Voltage ⩾	绝缘电阻不小于 Insulation Resistance ⩽ MΩ/km	参 考 指 标 Indices for Reference					
									平均功率 kW Average Power				峰值功率 kW Max. Power	最高使用频率 MHz Max Working Frequency
		30 MHz	200 MHz	3000 MHz					30MHz		200MHz			
									SYV	SWY	SYV	SWY		
-75-12	75 ± 3	0.0344	0.0968	0.659	76	12	5.5	10000	1.74	2.81	0.62	0.98	3.07	9350
-75-15	75 ± 3	0.0274	0.0793	0.574	76	15	7	10000	2.4	3.78	0.84	1.32	5.0	8240
-75-17	75 ± 3	0.0244	0.0715	0.537	76	18	8	10000	2.97	4.76	1.07	1.65	6.48	6210
-75-23-1	75 ± 3	0.020	0.0630	0.481	76	24	11.5	10000	3.96	6.29	1.34	2.11	13.4	5370
-75-28-1	75 ± 3	0.0181	0.0551	0.458	76	28	14	10000	5.05	8.23	1.68	2.77	18.6	3220
-100-7	75 ± 5	0.0537	0.147	0.729	57	5	2.5	10000						10000

SEYV 及 SEWY 型

SEYV & SEWY Types

型 号 Type	特性阻抗 Character Impedance (Ω)	衰减常数不大于 Attenuation Constant ⩽ dB/m		电容不大于 Capacitance ⩽ pF/m	试验电压 50Hz kV Test Voltage 50Hz kV	灭晕电压不低于 kV Corona-free Voltage ⩾	绝缘电阻不小于 Insulation Resistance ⩽ MΩ/km	流动性试验 Fluidity Test		尺寸稳定性位移不大于 Size Stability Shift ⩽ mm
		30 MHz	200 MHz					加荷 kg Loading	位移 ⩾ % Shift	
-75-2	75 ± 5	0.125	0.332	76	3	1	1000	2.5	15	3
-100-2				51	4	–	1000	2.5	15	3
-100-6-1				47	10	–	1000	2.5	15	3
-100-6-2	100 ± 5	0.0354	0.101	53	10	4.5	1000	2.5	15	3
-150-7	150 ± 6	0.0497	0.136	36	9	4.0	1000	5	15	3
-200-7	200 ± 10	0.0529	0.145	28	9	4.0	1000	5	15	3

交货要求

1.允许成圈长度为100米交货，成盘长度应不小于100米，长度误差为 ± 0.5%;

2.根据双方协议允许任何长度交货。

Cable Length

1.The length of cable in coil is 100 meters. The length of cable on drum should be on less than 100 meters with allowed length error no more than ± 0.5%.

2.It depends on find both agreements.

辐照交联聚乙烯绝缘电缆（电线）

Irradiated XLPE Insulation Cable (Wire)

本产品适用于交流额定电压 450/750V 及以下有阻燃要求的控制、监控回路及保护线路等场合，作控制连接线。

It is used as control connection cable for supervision & control return circuit and protection line of A.C. rated voltage 450/750V or lower with demand on flame-retardant performance.

生产执行标准
采用企业标准

Executive Standard:
as the enterprise's standard

型号、名称如表 1

Type & Description Form 1

表 1　Form 1

型　号　Type	产　品　名　称　Description
KFzYJV	铜芯辐照交联聚乙烯绝缘聚氯乙烯护套控制电缆 Control cable with Cu core, irradiated XLPE insulation & PVC sheath
KFzYJVR	铜芯辐照交联聚乙烯绝缘聚氯乙烯护套控制软电缆 Soft control cable with Cu Core, irradiated XLPE insulation & PVC sheath
KFzYJV22	铜芯辐照交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Control cable with Cu core, irradiated XLPE insulation, PVC sheath & steel tape armor
KFzYJVP$_2$	铜芯辐照交联聚乙烯绝缘铜带屏蔽聚氯乙烯护套控制电缆 Control cable with Cu core, irradiated XLPE insulation, Cu tape shielding & PVC sheath,
KFzYJVRP$_2$	铜芯辐照交联聚乙烯绝缘铜带屏蔽聚氯乙烯护套控制软电缆 Soft control cable with Cu core, irradiated XLPE insulation, Cu tape shielding & PVC sheath

注：型号中的字母含义：YJ-XLPE；Fz- 紫外辐照；　P2- 铜带屏蔽。

Remarks:Code Meaning: YJ-XLPE; Fz-Extraviolet Irradiation ; P2-Cu Tape Shielding

使用条件

1.额定电压 U_0/U 为 450/750V;
2.电缆导体的长期允许工作温度为 90℃;
3.电缆的敷设温度不低于 0℃，无铠装层的电缆允许弯曲半径应不小于电缆外径的 6 倍；有铠装结构的电缆，应不小于电缆外径的 12 倍。
4.适用于有阻燃要求的场合。

Working Conditions:

1.Rated Voltage U_0/U: 450/750V;
2.Max. conductor temperature for long-term working: 90℃;
3.Ambient temperature for installation should be no lowerthan 0℃; Allowed bending radius should be no less than 6 times that of cable outer diameter for cable without armor, and no less than12 times that of cable outerdiameter for armored cable.
4.It is suitable for environment with demand on flameretardant performance.

产品特点:

1.进一步提高电缆的工作温度范围：-40℃~105℃，短时间内可达 125℃;
2.结构简单，安装敷设方便;
3.性价比好。

Features:

1.With wider operation temperature range: -40℃~105℃, 125℃ to the maximum for short time operation.
2.With sinple structure, convenient for installation.
3.With desirable ratio between price snd perfomance.



规格范围、结构、性能如表 2
Specification Range, Structure & Performance Form 2

1、电缆的规格范围　Cable Specification Range

表 2　Form 2

型　号 Type	额定电压 (V) Rated Voltage	导体标称截面 Nominal Cross-section Area(mm^2)						
		0.75	1.0	1.5	2.5	4	6	10
		芯　数 Core Number						
KF_ZYJV KF_ZYJVR	450/750V	2~37				2~7		
KF_ZYJV22		4~37				4~7		
KF_ZYJVP_2 KF_ZYJVRP_2		7~37		4~37		4~7		

2、系列规格的导体结构型式和技术参数,　Conductor Structures & Technical Parameters:

表 3　Form 3

标称截面　(mm^2) Nominal Cross Section Area	导体结构　Conductor Structure		20℃时导体电阻（Ω/km）≤ Conductor Resistance at 20℃ (Ω/km) ≤	
	种　类 Category	根数/单线标称直径 (mm) Pieces/Diameter per piece	不镀锡 Non-tinned	镀锡 Tinned
0.75	1	1/0.97	24.5	24.8
0.75	2	7/0.37	24.5	24.8
1.0	1	1/1.13	18.1	18.2
1.0	2	7/0.43	18.1	18.2
1.5	1	1/1.38	12.1	12.2
1.5	2	7/0.52	12.1	12.2
2.5	1	1/1.78	7.41	7.56
2.5	2	7/0.68	7.41	7.56
4	1	1/2.25	4.61	4.70
4	2	7/0.85	4.61	4.70
6	1	1/2.76	3.08	3.11
6	2	7/1.04	3.08	3.11
10	2	7/1.35	1.83	1.84

注：导体表面应光洁、无油污、无损伤绝缘的毛刺、锐边以凸及起或断裂的单线。

Remarks:　The conductor　should be clean, smooth, without burr, greasy dirt or splitted single wire on the surface.

3、电缆的绝缘厚度及性能要求，应符合下述规定

3.Cable insulation thickness and technical performance should meet the demands below:

(1) 用阻燃型 90℃辐照交联聚乙烯料，绝缘厚度标称值应符合表 4 规定

(1) The nominal thickness of layer of 90℃ flame-retardant irradiated XLPE insulation should meet the　demands in Form 4.

表 4　Form 4

额定电压（V） Rated Voltage (V)	导体标称截面（mm2）　Nominal Cross-section Area of Conductor (mm2)						
	0.75	1.0	1.5	2.5	4	6	10
	绝缘标称厚度（mm）　Nominal Insulation Thickness (mm)						
450/750	0.6	0.6	0.7				

注：绝缘线芯能经受交流 50Hz 火花试验作为中间检查，试验电压为 6kV；绝缘线芯采用数字标志（符合 GB6995 规定）。

Remarks: The insulated cores could pass A.C. 50Hz 6kV spark test; We adopt digital marks fordifferentiation among insulated cores. (as GB6995 standard)

(2) 辐照后的交联聚乙烯绝缘线芯，应符合表5的特殊性能试验要求

(2) The technical performance of XLPE insulated conductor after irradiation should meet test demands in Form 5.

表5 Form 5

试验项目 Testing Items	辐照交联聚乙烯 Irradiation XLPE
热延伸试验 Heat Elongation Test	200
空气温度（偏差±3℃）（℃） Air Temperature（Deviation ± 3	15
处理条件载荷时间（min） Time under Loading (minutes)	
机械应力（N/cm²） Mechanical Stress（N/cm²）	20
负载下伸长率（%）最大 Elongation Rate under Loading（%）Max	175
冷却后永久伸长率（%）最大 Permanent Elongation Rate after Cooling（%）Max.	15

(3)成缆时，绝缘线芯间采用阻燃聚丙烯绳填充、缆芯外绕包玻璃丝纤维带；铜带屏蔽采用0.05~0.15mm的软铜带重叠绕包；铠装按GB2952规定要求。

（4）护套采用氧指数不小于31的阻燃料挤制而成(护套厚度标称值，在后续产品中按产品规格规定)。

(3)We adopt flame-retardant PP rope to fill the space among the insulated cores, and glass fiber tape to wrap cable core; We adopt soft Cu tape with diameter of 0.05~0.15mm overlapped & wrapped for shielding, and armor is produced as GB2952 standard.

(4) We adopt flame-retardant plastics with oxygen index no less than 31 for sheath. (See nominal sheath thickness from theconcerned stipulations)



电气、机械、物理性能试验指标要求

Technical Demands on Electric, Mechanical & Physic Performance Tests:

表6 Form 6

电缆应能经受表6规定的工频交流电压试验

The cable could pass A.C. voltage test under working frequency stipulated in Form 6

序号 No	试样条件 Test Conditions	单位 Unit	电缆施加电压 450/750V Testing Voltage
1	电缆电压试验 Cable Voltage Test 试样长度 Sample Length 试样温度 Test Temperature 试样电压 施加时间,最少 Test Voltage Lasting Time: Min.	 V min	交货长度 环境温度 3000 5 Whole Length Environment Temperature
2	绝缘线芯电压试验 Voltage Test on Insulated Core 试样长度，最少 Sample Length: Min. 浸水时间，最少 Immersion Time: Min. 水温 Water Temperature 试验电压 Testing Voltage 绝缘厚度≤0.6mm Insulation Thickness>0.6mm 绝缘厚度>0.6mm Insulation Thickness >0.6mm 施加时间，最少 Lasting time: Min.	 m h ℃ V V min	 5 1 20 ± 5 2000 2500 5

绝缘的机械物理性能应符合表 7 规定。

表 7　Form 7　　Mechanical & physic performance of the insulation should meet the demands in Form 7.

序 号 NO	试验项目 Testing Items	阻燃型辐照交联聚乙烯 Flame-retardant Irradiation
1	老化前机械性能 Mechanical Performance before Aging	XLPE
1.1	抗张强度最小 Tensile Strength (N/mm^2) Min.	12.5
1.2	断裂伸长率最小 Splitting Elongation Rate (%) Min.	300
2	空气箱老化后机械性能 Mechanical Performance after Aging	
	处理条件：温度 Conditions: Temperature (℃)	135
	温度偏差 Temperature Deviation (℃)	± 3
	持续时间 Lasting Time (h)	7
2.1	抗张强度变化率最大 Tensile Strength Change Rate (%) Max.	± 25
2.2	断裂伸长率变化率最大 Change Rate of Splitting Elongation Rate (%) Max.	± 25

护套的机械物理性能应符合表 8 规定

表 8　Form 8　　Mechanical & physic performance of the sheath should meet the demands in Form 8.

序 号 NO	试 验 项 目 Testing Items	阻燃型聚氯乙烯护套 Flame-retardant PVC Sheath
1	老化前机械性能 Mechanical Performance before Aging	12.5
1.1	抗张强度最小 Tensile Strength (N/mm^2) Min.	150
1.2	断裂伸长率最小 Splitting Elongation Rate（%）Min.	
2	空气箱老化后机械性能 Mechanical Performance after Aging	
	处理条件：温度(偏差 ± 2℃) Conditions: Temperature (error ± 2℃)(℃)	100
	持续时间 Lasting Time (h)	7
	抗张强度最小 Tensile Strength (N/mm^2) Min.	12.5
	抗张强度变化率最大 Tensile Strength Change Rate (%)Max.	± 25
2.1	断裂伸长率最小 Splitting Elongation Rate(%)Min.	150
2.2	断裂伸长率变化率最大 Change Rate of Splitting Elongation Rate (%) Max.	± 25



表9 Form 9

3	失重试验 Zero Gravity Test	
	处理条件：温度(偏差 ± 2℃) Conditions: Temperature(error ± 2℃)(℃)	100
3.1	持续时间 Lasting Time (d)	7
3.2	失重最大 Zero Gravity (mg/cm²) Max.	1.5
4	高温压力试验 Pressure Test under High Temperature	
4.1	试验温度(偏差 ± 2℃) Testing Temperature (error ± 2℃)(℃)	90
4.2	压痕深度最大 Score Depth（%）Max.	50
5	低温性能试验 Performance Test under Low Temperature	
5.1	未老化前的低温卷绕试验 Rolling Test under Low Temperature before Aging	
	冷弯试验电缆直径最大 Cable Diameter for Cool Bending Test (mm) Max.	12.5
	试验温度(偏差 ± 2℃) Testing Temperature (error ± 2℃)(℃)	-15
5.2	低温拉伸试验 Splitting Test under Low Temperature	-15
5.3	试验温度(偏差 ± 2℃) Testing Temperature (error ± 2℃)(℃)	
	低温冲击试验 Shocking Test under Low Temperature	
	试验温度(偏差 ± 2℃) Testing Temperature (error ± 2℃)(℃)	-15
6	抗开裂（热冲击）试验 Fracture-resisting (Heat Shock) Test	
6.1	试验温度(偏差 ± 2℃) Testing Temperature (error ± 2℃)	150
6.2	持续时间 Lasting Time (h)	1

成束电缆燃烧试验按 GB12666 **标准规定进行；试样类别、试验条件、性能要求，应符合表** 9 **规定**

Firing test on cable in bundle should be conducted as the stipulations in GB12666 standard. Sample category, test conditions, and performance should meet the demands in Form 9.

表9 Form 9

试样类别 Testing Samples	试 验 条 件 Testing Conditions	性 能 要 求 Performance Demands
A 类	供火时间 40min Flame Supply Time 40min	炭化部分所达的高度不超过 2.5m The height of carbonized part should be no more than 2.5 meters.
B 类	供火时间 40min Flame Supply Time 40min	
C 类	供火时间 20min Flame Supply Time 20min	

表 10　Form 10

KF_zYJV型　KFzYJV Type

芯数×标称截面 Core Number Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	绝缘厚度 Insulation Thickness (mm)	护套厚度 Sheath Thickness (mm)	成品近似外径 Approximate Outer Diameter of Finished Cable (mm)	成品近似重量 Approximate Weight of Finished Cable (kg/km)	20℃导体直流电阻 D.C. Conductor Resistance at 20℃(Ω/km)≤	70℃最小绝缘电阻 Min.Insulation Resistance at 70℃ (MΩ·km)
2 × 0.75	1	0.6	1.2	7.50	49	24.5	1.2
2 × 0.75	2	0.6	1.2	7.78	51	24.5	1.4
2 × 1.0	1	0.6	1.2	7.82	56	18.1	1.1
2 × 1.0	2	0.6	1.2	8.14	59	18.1	1.3
2 × 1.5	1	0.7	1.2	8.75	68	12.1	1.1
2 × 1.5	2	0.7	1.2	9.10	75	12.1	1.0
2 × 2.5	1	0.7	1.2	9.56	92	7.41	1.0
2 × 2.5	2	0.7	1.2	10.08	101	7.41	0.9
2 × 4	1	0.7	1.2	1050	135	4.61	0.85
2 × 4	2	0.7	1.2	11.10	170	4.61	0.77
2 × 6	1	0.7	1.2	11.52	220	3.08	0.70
2 × 6	2	0.7	1.2	12.44	230	3.08	0.65
2 × 10	2	0.7	1.5	15.40	320	1.83	0.65
3 × 0.75	1	0.6	1.2	7.84	58	24.5	1.2
3 × 0.75	2	0.6	1.2	8.14	60	24.5	1.4
3 × 1.0	1	0.6	1.2	8.19	75	18.1	1.1
3 × 1.0	2	0.6	1.2	8.53	79	18.1	1.3
3 × 1.5	1	0.7	1.2	9.18	94	12.1	1.1
3 × 1.5	2	0.7	1.2	9.57	102	12.1	1.0
3 × 2.5	1	0.7	1.2	10.06	127	7.41	1.0
3 × 2.5	2	0.7	1.2	10.62	138	7.41	0.9
3 × 4	1	0.7	1.2	11.08	175	4.61	0.85
3 × 4	2	0.7	1.2	11.72	213	4.61	0.77
3 × 6	1	0.7	1.5	12.83	280	3.08	0.70
3 × 6	2	0.7	1.5	13.61	290	3.08	0.65
3 × 10	1	0.7	1.5	16.52	420	1.81	0.65
4 × 0.75	2	0.6	1.2	8.42	73	1.81	1.2
4 × 0.75	1	0.6	1.2	8.76	76	24.5	1.4
4 × 1.0	2	0.6	1.2	8.81	85	24.5	1.1
4 × 1.0	1	0.6	1.2	9.20	89	18.1	1.3
4 × 1.5	2	0.7	1.2	9.92	108	12.1	1.1
4 × 1.5	1	0.7	1.2	10.35	117	12.1	1.0
4 × 2.5	2	0.7	1.2	10.91	151	7.41	1.0
4 × 2.5	1	0.7	1.2	11.54	164	7.41	0.9
4 × 4	2	0.7	1.5	12.71	213	4.61	0.85
4 × 4	1	0.7	1.5	13.43	253	4.61	0.77
4 × 6	2	0.7	1.5	13.94	337	3.08	0.70
4 × 6	1	0.7	1.5	14.81	348	3.08	0.65
4 × 10	2	0.7	1.5	18.07	521	1.83	0.65
5 × 0.75	1	0.6	1.2	9.06	85	24.5	1.2



续表 10 Form 10(continued)

芯数×标称截面 Core Number Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	绝缘厚度 Insulation Thickness (mm)	护套厚度 Sheath Thickness (mm)	成品近似外径 Approximate Outer Diameter of Finished Cable (mm)	成品近似重量 Approximate Weight of Finished Cable (kg/km)	20℃导体直流电阻 D.C. Conductor Resistance at 20℃(Ω/km)≤	70℃最小绝缘电阻 Min.Insulation Resistance at 70℃ (MΩ·km)
5 × 0.75	2	0.6	1.2	9.44	89	24.5	1.4
5 × 1.0	1	0.6	1.2	9.49	100	18.1	1.1
5 × 1.0	2	0.6	1.2	9.93	105	18.1	1.3
5 × 1.5	1	0.7	1.2	10.74	129	12.1	1.1
5 × 1.5	2	0.7	1.2	11.22	139	12.1	1.0
5 × 2.5	1	0.7	1.5	12.50	182	7.41	1.0
5 × 24	2	0.7	1.5	13.20	224	7.41	0.9
5 × 4	1	0.7	1.5	13.77	286	4.61	0.85
5 × 4	2	0.7	1.5	14.58	303	4.61	0.77
5 × 6	1	0.7	1.5	15.15	408	3.08	0.70
5 × 6	2	0.7	1.5	16.12	422	3.08	0.65
5 × 10	2	0.7	1.7	20.21	675	1.83	0.65
7 × 0.75	1	0.6	1.2	9.79	107	24.5	1.2
7 × 0.75	2	0.6	1.2	10.15	113	24.5	1.4
7 × 1.0	1	0.6	1.2	10.21	129	18.1	1.1
7 × 1.0	2	0.6	1.2	10.69	134	18.1	1.3
7 × 1.5	1	0.7	1.2	11.59	167	12.1	1.1
7 × 1.5	2	0.7	1.2	12.13	204	12.1	1.0
7 × 2.5	1	0.7	1.5	13.48	240	7.41	1.0
7 × 2.5	2	0.7	1.5	14.26	287	7.41	0.9
7 × 4	1	0.7	1.5	14.89	374	4.61	0.85
7 × 4	2	0.7	1.5	15.79	395	4.61	0.77
7 × 6	1	0.7	1.5	16.42	541	3.08	0.70
7 × 6	2	0.7	1.5	17.50	558	3.08	0.65
7 × 10	2	0.7	1.7	20.79	973	1.83	0.65
8 × 0.75	1	0.6	1.2	10.40	123	24.5	1.2
8 × 0.75	2	0.6	1.2	10.86	129	24.5	1.4
8 × 1.0	1	0.6	1.2	10.93	147	18.1	1.1
8 × 1.0	2	0.6	1.2	11.46	154	18.1	1.3
8 × 1.5	1	0.7	1.5	13.11	191	12.1	1.1
8 × 1.5	2	0.7	1.5	13.70	232	12.1	1.0
8 × 2.5	1	0.7	1.5	14.46	302	7.41	1.0
8 × 2.5	2	0.7	1.5	15.32	328	7.41	0.9
8 × 4	1	0.7	1.5	16.01	429	4.61	0.85
8 × 4	2	0.7	1.5	17.00	452	4.61	0.77
8 × 6	1	0.7	1.7	18.13	661	3.08	0.70
8 × 6	2	0.7	1.7	19.32	683	3.08	0.65
8 × 10	2	0.7	1.7	22.46	1128	1.83	0.65
8 × 0.75	1	0.6	1.2	11.96	147	24.5	1.2
8 × 0.75	2	0.6	1.2	12.52	155	24.5	1.4
8 × 1.0	1	0.6	1.5	13.26	203	18.1	1.1
8 × 1.0	2	0.6	1.5	13.90	212	18.1	1.1

续表 10 Form 10(continued)

芯数×标称截面 Core Number Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	绝缘厚度 Insulation Thickness (mm)	护套厚度 Sheath Thickness (mm)	成品近似外径 Approximate Outer Diameter of Finished Cable (mm)	成品近似重量 Approximate Weight of Finished Cable (kg/km)	20℃导体直流电阻 D.C. Conductor Resistance at 20℃(Ω/km)≤	70℃最小绝缘电阻 Min.Insulation Resistance at 70℃ (MΩ·km)
10 × 1.5	1	0.7	1.5	15.10	259	12.1	1.1
10 × 1.5	2	0.7	1.5	15.82	279	12.1	1.0
10 × 2.5	1	0.7	1.5	16.74	369	7.41	1.0
10 × 2.5	2	0.7	1.5	17.78	436	7.41	0.9
10 × 4	1	0.7	1.7	19.80	523	4.61	0.85
10 × 4	2	0.7	1.7	20.26	594	4.61	0.77
10 × 6	1	0.7	1.7	21.10	803	3.08	0.70
10 × 6	2	0.7	1.7	22.54	830	3.08	0.65
10 × 10	2	0.7	1.7	26.74	1365	1.83	0.65
12 × 0.75	1	0.6	1.2	12.96	168	24.5	1.2
12 × 0.75	2	0.6	1.2	13.54	202	24.5	1.4
12 × 1.0	1	0.6	1.2	13.63	230	18.1	1.1
12 × 1.0	2	0.6	1.2	14.29	241	18.1	1.3
12 × 1.5	1	0.7	1.2	15.54	296	12.1	1.1
12 × 1.5	2	0.7	1.2	16.29	317	12.1	1.0
12 × 2.5	1	0.7	1.5	17.20	423	7.41	1.0
12 × 2.5	2	0.7	1.5	18.32	496	7.41	0.9
12 × 4	1	0.7	1.7	19.64	646	4.61	0.85
12 × 4	2	0.7	1.7	20.88	682	4.61	0.77
12 × 6	1	0.7	1.7	21.75	945	3.08	0.70
12 × 6	2	0.7	1.7	32.25	998	3.08	0.65
14 × 0.75	1	0.6	1.5	13.54	216	24.5	1.2
14 × 0.75	2	0.6	1.5	14.16	226	24.5	1.4
14 × 1.0	1	0.6	1.5	14.25	256	18.1	1.1
14 × 1.0	2	0.6	1.5	14.96	270	18.1	1.3
14 × 1.5	1	0.7	1.5	16.28	335	12.1	1.1
14 × 1.5	2	0.7	1.5	17.07	358	12.1	1.0
14 × 2.5	1	0.7	1.5	18.09	483	7.41	1.0
14 × 2.5	2	0.7	1.5	19.24	560	7.41	0.9
14 × 4	1	0.7	1.7	20.01	736	4.61	0.85
14 × 4	2	0.7	1.7	21.93	775	4.61	0.77
14 × 6	1	0.7	1.7	22.86	1050	3.08	0.70
14 × 6	2	0.7	1.7	24.85	1120	3.08	0.65
16 × 0.75	1	0.6	1.5	14.18	239	24.5	1.2
16 × 0.75	2	0.6	1.5	14.84	251	24.5	1.4
16 × 1.0	1	0.6	1.5	14.93	287	18.1	1.1
16 × 1.0	2	0.6	1.5	15.69	300	18.1	1.3
16 × 1.5	1	0.7	1.5	17.10	347	12.1	1.1
16 × 1.5	2	0.7	1.5	17.94	438	12.1	1.0
16 × 2.5	1	0.7	1.7	19.46	541	7.41	1.0
16 × 2.5	2	0.7	1.7	20.68	625	7.41	0.9



续表 10 Form 10(continued)

芯数×标称截面 Core Number Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	绝缘厚度 Insulation Thickness (mm)	护套厚度 Sheath Thickness (mm)	成品近似外径 Approximate Outer Diameter of Finished Cable (mm)	成品近似重量 Approximate Weight of Finished Cable (kg/km)	20℃导体直流电阻 D.C. Conductor Resistance at 20℃(Ω/km)≤	70℃最小绝缘电阻 Min.Insulation Resistance at 70℃ (MΩ·km)
19 × 0.75	1	0.6	1.5	14.85	272	24.5	1.2
19 × 0.75	2	0.6	1.5	15.55	285	24.5	1.4
19 × 1.0	1	0.6	1.5	15.65	329	18.1	1.1
19 × 1.0	2	0.6	1.5	16.45	343	18.1	1.3
19 × 1.5	1	0.7	1.5	17.95	430	12.1	1.1
19 × 1.5	2	0.7	1.5	18.85	499	12.1	1.0
19 × 2.5	1	0.7	1.7	20.44	667	7.41	1.0
19 × 2.5	2	0.7	1.7	21.74	719	7.41	0.9
24 × 0.75	1	0.6	1.5	17.08	335	24.5	1.2
24 × 0.75	2	0.6	1.5	17.92	352	24.5	1.4
24 × 1.0	1	0.6	1.5	18.04	406	18.1	1.1
24 × 1.0	2	0.6	1.5	19.00	463	18.1	1.3
24 × 1.5	1	0.7	1.7	21.24	575	12.1	1.1
24 × 1.5	2	0.7	1.7	22.32	615	12.1	1.0
24 × 2.5	1	0.7	1.7	24.10	827	7.41	1.0
24 × 2.5	2	0.7	1.7	22.66	981	7.41	0.9
27 × 0.75	1	0.6	1.5	17.42	360	24.5	1.2
27 × 0.75	2	0.6	1.5	18.28	398	24.5	1.4
27 × 1.0	1	0.6	1.5	18.41	445	18.1	1.1
27 × 1.0	2	0.6	1.5	19.39	495	18.1	1.3
27 × 1.5	1	0.7	1.7	21.68	617	12.1	1.1
27 × 1.5	2	0.7	1.7	22.79	650	12.1	1.0
27 × 2.5	1	0.7	1.7	24.60	890	7.41	1.0
27 × 2.5	2	0.7	1.7	26.20	980	7.41	0.9
30 × 0.75	1	0.6	1.5	18.00	399	24.5	1.2
30 × 0.75	2	0.6	1.5	18.90	457	24.5	1.4
30 × 1.0	1	0.6	1.7	19.47	525	18.1	1.1
30 × 1.0	2	0.6	1.7	20.50	549	18.1	1.3
30 × 1.5	1	0.7	1.7	22.42	680	12.1	1.1
30 × 1.5	2	0.7	1.7	23.57	731	12.1	1.0
30 × 2.5	1	0.7	1.7	25.45	999	7.41	1.0
30 × 2.5	2	0.7	1.7	27.02	1071	7.41	0.9
37 × 0.75	1	0.6	1.5	19.75	513	24.5	1.2
37 × 0.75	2	0.6	1.5	20.73	538	24.5	1.4
37 × 1.0	1	0.6	1.7	20.87	622	18.1	1.1
37 × 1.0	2	0.6	1.7	21.99	651	18.1	1.3
37 × 1.5	1	0.7	1.7	24.09	820	12.1	1.1
37 × 1.5	2	0.7	1.7	25.75	869	12.1	1.0
37 × 2.5	1	0.7	1.7	27.36	1202	7.41	1.0
37 × 2.5	2	0.7	1.7	29.18	1248	7.41	0.9

表 11 Form 11

KF_ZYJVP_2型 KF_ZYJVP_2 Type

芯数×标称截面 Core Number Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	绝缘厚度（mm）Insulation Thickness (mm)	护套厚度 Sheath Thickness (mm)	成品近似外径 Approximate Outer Diameter of Finished Cable (mm)	成品近似重量 Approximate Weight of Finished Cable (kg/km)	20℃导体直流电阻 D.C. Conductor Resistance at 20℃(Ω/km)≤	70℃最小绝缘电阻 Min.Insulation Resistance at 70℃ (MΩ·km)
4 × 0.75	1	0.6	1.2	8.82	108	24.5	1.2
4 × 1.0	1	0.6	1.2	9.91	122	18.1	1.1
4 × 1.5	1	0.7	1.2	10.32	148	12.1	1.1
4 × 2.5	1	0.7	1.5	11.97	196	7.41	1.0
4 × 4	1	0.7	1.5	13.11	290	4.01	0.85
4 × 6	1	0.7	1.5	14.34	401	3.08	0.70
4 × 10	2	0.7	1.7	17.94	640	1.83	0.65
5 × 0.75	1	0.6	1.2	9.46	123	24.5	1.2
5 × 1.0	1	0.6	1.2	9.89	141	18.1	1.1
5 × 1.5	1	0.7	1.2	11.80	173	12.1	1.1
5 × 2.5	1	0.7	1.5	12.90	231	7.41	1.0
5 × 4	1	0.7	1.5	14.17	343	4.01	0.85
5 × 6	1	0.7	1.5	15.55	478	3.08	0.70
5 × 10	2	0.7	1.7	19.53	765	1.83	0.65
7 × 0.75	1	0.6	1.2	10.13	149	24.5	1.2
7 × 1.0	1	0.6	1.2	10.61	173	18.1	1.1
7 × 1.5	1	0.7	1.2	12.65	214	12.1	1.1
7 × 2.5	1	0.7	1.5	13.88	321	7.41	1.0
7 × 4	1	0.7	1.5	15.29	437	4.01	0.85
7 × 6	1	0.7	1.5	16.82	617	3.08	0.70
7 × 10	2	0.7	1.7	21.19	993	1.83	0.65
8 × 0.75	1	0.6	1.2	11.46	188	24.5	1.2
8 × 1.0	1	0.6	1.2	11.99	195	18.1	1.1
8 × 1.5	1	0.7	1.2	13.51	269	12.1	1.1
8 × 2.5	1	0.7	1.5	14.86	363	7.41	1.0
8 × 4	1	0.7	1.5	16.85	497	4.01	0.85
8 × 6	1	0.7	1.5	18.53	749	3.08	0.70
8 × 10	2	0.7	1.7	21.86	1136	1.83	0.65
10 × 0.75	1	0.6	1.2	13.02	226	24.5	1.2
10 × 1.0	1	0.6	1.2	13.66	261	18.1	1.1
10 × 1.5	1	0.7	1.2	15.50	322	12.1	1.1
10 × 2.5	1	0.7	1.5	17.58	438	7.41	1.0
10 × 4	1	0.7	1.5	19.46	642	4.01	0.85
10 × 6	1	0.7	1.5	21.50	904	3.08	0.70
10 × 10	2	0.7	1.7	27.14	1381	1.83	0.65



KF_ZYJVP_2型　KF_ZYJVP_2 Type

续表 11　Form 11(continued)

芯数×标称截面 Core Number Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	绝缘厚度（mm） Insulation Thickness (mm)	护套厚度 Sheath Thickness (mm)	成品近似外径 Approximate Outer Diameter of Finished Cable (mm)	成品近似重量 Approximate Weight of Finished Cable (kg/km)	20℃导体直流电阻 D.C. Conductor Resistance at 20℃(Ω/km)≤	70℃最小绝缘电阻 Min.Insulation Resistance at 70℃ (MΩ・km)
12 × 0.75	1	0.6	1.5	8.82	108	24.5	1.2
12 × 1.0	1	0.6	1.5	9.91	122	18.1	1.1
12 × 1.5	1	0.7	1.5	10.32	148	12.1	1.1
12 × 2.5	1	0.7	1.7	11.97	196	7.41	1.0
12 × 4	1	0.7	1.7	13.11	290	4.61	0.85
12 × 6	1	0.7	1.7	14.34	401	3.08	0.70
14 × 0.75	1	0.6	1.5	9.46	123	24.5	1.2
14 × 1.0	1	0.6	1.5	9.89	141	18.1	1.1
14 × 1.5	1	0.7	1.5	11.80	173	12.1	1.1
14 × 2.5	1	0.7	1.7	12.90	231	7.41	1.0
14 × 4	1	0.7	1.7	14.17	343	4.61	0.85
14 × 6	1	0.7	1.7	15.55	478	3.08	0.70
16 × 0.75	1	0.6	1.7	10.13	149	24.5	1.2
16 × 1.0	1	0.6	1.5	10.61	173	18.1	1.1
16 × 1.5	1	0.7	1.5	12.65	214	12.1	1.1
16 × 2.5	1	0.7	1.5	13.88	321	7.41	1.0
19 × 0.75	1	0.6	1.7	11.46	188	24.5	1.2
19 × 1.0	1	0.6	1.5	11.99	195	18.1	1.1
19 × 1.5	1	0.7	1.5	13.51	269	12.1	1.1
19 × 2.5	1	0.7	1.7	14.86	363	7.41	1.0
24 × 0.75	1	0.6	1.7	13.02	226	24.5	1.2
24 × 1.0	1	0.6	1.5	13.66	261	18.1	1.1
24 × 1.5	1	0.7	1.2	15.50	322	12.1	1.1
24 × 2.5	1	0.7	1.2	17.58	438	7.41	1.0
27 × 0.75	1	0.6	1.5	10.13	149	24.5	1.2
27 × 1.0	1	0.6	1.2	10.61	173	18.1	1.1
27 × 1.5	1	0.7	1.2	12.65	214	12.1	1.1
27 × 2.5	1	0.7	1.5	13.88	321	7.41	1.0
30 × 0.75	1	0.6	1.2	11.46	188	24.5	1.2
30 × 1.0	1	0.6	1.2	11.99	195	18.1	1.1
30 × 1.5	1	0.7	1.2	13.51	269	12.1	1.1
30 × 2.5	1	0.7	1.5	14.86	363	7.41	1.0
37 × 0.75	1	0.6	1.2	13.02	226	24.5	1.2
37 × 1.0	1	0.6	1.2	13.66	261	18.1	1.1
37 × 1.5	1	0.7	1.2	15.50	322	12.1	1.1
37 × 2.5	1	0.7	1.5	17.58	438	7.41	1.0

表 12 Form 12

芯数×标称截面 Core Number Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	绝缘厚度（mm） Insulation Thickness (mm)	护套厚度 Sheath Thickness (mm)	成品近似外径 Approximate Outer Diameter of Finished Cable (mm)	成品近似重量 Approximate Weight of Finished Cable (kg/km)	20℃导体直流电阻 D.C. Conductor Resistance at 20℃ (Ω/km) ≤	70℃最小绝缘电阻 Min.Insulation Resistance at 70℃ (MΩ · km)
4 × 2.5	1	0.7	1.5	14.77	357	7.41	1.0
4 × 4	1	0.7	1.5	15.91	440	4.16	0.85
4 × 6	1	0.7	1.5	17.14	660	3.08	0.70
4 × 10	2	0.7	1.7	20.74	910	1.83	0.65
5 × 2.5	1	0.7	1.5	15.70	404	7.41	1.0
5 × 4	1	0.7	1.5	16.97	550	4.16	0.85
5 × 6	1	0.7	1.7	18.79	759	3.08	0.70
5 × 10	2	0.7	1.7	22.33	1118	1.83	0.65
7 × 0.75	1	0.6	1.5	13.59	301	24.5	1.2
7 × 1.0	1	0.6	1.5	14.07	331	18.1	1.1
7 × 1.5	1	0.7	1.5	15.45	383	12.1	1.1
7 × 2.5	1	0.7	1.5	16.68	497	7.41	1.0
7 × 4	1	0.7	1.5	18.09	695	4.61	0.85
7 × 6	1	0.7	1.7	20.06	918	3.08	0.70
7 × 10	2	0.7	1.7	23.99	1370	1.83	0.65
8 × 0.75	1	0.6	1.5	14.26	328	24.5	1.2
8 × 1.0	1	0.6	1.5	14.77	362	18.1	1.1
8 × 1.5	1	0.7	1.5	16.31	422	12.1	1.1
8 × 2.5	1	0.7	1.5	17.66	575	7.41	1.0
8 × 4	1	0.7	1.7	19.65	771	4.61	0.85
8 × 6	1	0.7	1.7	21.33	1085	3.08	0.70
8 × 10	2	0.7	1.7	25.70	1540	1.83	0.65
10 × 0.75	1	0.6	1.5	15.82	381	24.5	1.2
10 × 1.0	1	0.6	1.5	16.64	467	18.1	1.1
10 × 1.5	1	0.7	1.5	18.30	580	12.1	1.1
10 × 2.5	1	0.7	1.7	20.38	721	7.41	1.0
10 × 4	1	0.7	1.7	22.26	915	4.61	0.85
10 × 6	1	0.7	1.7	24.30	1289	3.08	0.70
10 × 10	2	0.7	2.0	30.60	2089	1.83	0.65
12 × 0.75	1	0.6	1.5	16.16	408	24.5	1.2
12 × 1.0	1	0.6	1.5	16.83	500	18.1	1.1
12 × 1.5	1	0.7	1.5	18.74	625	12.1	1.1
12 × 2.5	1	0.7	1.7	20.88	786	7.41	1.0



续表 12 Form 12(continued)

芯数×标称截面 Core Number Nominal Cross-section Area (mm^2)	导体种类 Conductor Category	绝缘厚度（mm） Insulation Thickness (mm)	护套厚度 Sheath Thickness (mm)	成品近似外径 Approximate Outer Diameter of Finished Cable (mm)	成品近似重量 Approximate Weight of Finished Cable (kg/km)	20℃导体直流电阻 D.C. Conductor Resistance at 20℃(Ω/km)≤	70℃最小绝缘电阻 Min.Insulation Resistance at 70℃ (MΩ·km)
12 × 4	1	0.7	1.7	22.84	1069	4.61	0.85
12 × 6	1	0.7	1.7	24.95	1520	3.08	0.70
14 × 0.75	1	0.6	1.5	16.74	485	24.5	1.2
14 × 1.0	1	0.6	1.5	17.45	577	18.1	1.1
14 × 1.5	1	0.7	1.7	19.92	677	12.1	1.1
14 × 2.5	1	0.7	1.7	21.73	862	7.41	1.0
14 × 4	1	0.7	1.7	23.81	1177	4.61	0.85
14 × 6	1	0.7	1.7	26.06	1818	3.08	0.70
19 × 0.5	3	0.6	1.5	14.70	196	39.0	1.3
19 × 0.75	3	0.6	1.5	16.00	304	26.0	1.1
19 × 1.0	3	0.6	1.5	16.70	267	19.5	1.0
19 × 1.5	3	0.7	1.5	19.05	530	13.3	1.0
19 × 2.5	3	0.7	1.7	22.04	761	7.98	0.9
24 × 0.5	3	0.6	1.5	16.90	230	39.0	1.3
24 × 0.75	3	0.6	1.5	18.46	376	26.0	1.1
24 × 1.0	3	0.6	1.5	19.30	491	19.5	1.0
24 × 1.5	3	0.7	1.7	22.56	648	13.3	1.0
24 × 2.5	3	0.7	1.7	26.02	937	7.98	0.9
27 × 0.5	3	0.6	1.5	17.24	262	39.0	1.3
27 × 0.75	3	0.6	1.5	18.84	425	26.0	1.1
27 × 1.0	3	0.6	1.5	19.70	520	19.5	1.0
27 × 1.5	3	0.7	1.7	23.03	682	13.3	1.0
27 × 2.5	3	0.7	1.7	26.57	1020	7.98	0.9
30 × 0.5	3	0.6	1.5	17.81	297	39.0	1.3
30 × 0.75	3	0.6	1.5	19.48	484	26.0	1.1
30 × 1.0	3	0.6	1.5	20.82	582	19.5	1.0
30 × 1.5	3	0.7	1.7	23.83	775	13.3	1.0
30 × 2.5	3	0.7	1.7	27.50	1135	7.98	0.9
37 × 0.5	3	0.6	1.5	19.10	392	39.0	1.3
37 × 0.75	3	0.6	1.5	21.36	570	26.0	1.1
37 × 1.0	3	0.6	1.5	22.34	690	19.5	1.0
37 × 1.5	3	0.7	1.7	26.03	921	13.3	1.0
37 × 2.5	3	0.7	1.7	29.60	1350	7.98	0.9

交货要求

根据双方协议允许任何长度交货，长度计量误差为±0.5%

Cable Length:

It depends on both agreements with length error allowance no more than ± 0.5%.

70℃ 电机绕组引接软电缆（电线）

70℃Soft Cable (Wire) for Motor Coil Connection

本产品适用于连续运行导体温度为 70℃ 的电机绕组作引接线用。

It is used as connection cable of motor coil with continual working temperature of 70℃.

生产执行标准:
JB6213.2-1992

Executive Standard:
as JB6213.2-1992

使用条件

1.连续运行导体最高温度为 70 ℃
2.敷设时的允许弯曲半径应不小于电缆（电线）外径的 4 倍。

Working Conditions:

1.Max. conductor temperature for continual working is 70℃.
2.Bending radius allowed in installation should be no less than 4 times that of cable (wire) outer diameter.

型号及名称 Type & Description

型 号 Type	名 称 Description
JV	铜芯聚氯乙烯绝缘电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core and PVC insulation
JF	铜芯丁腈聚氯乙烯复合物绝缘电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core, butadiene PVC compound insulation
JXN	铜芯橡皮绝缘丁腈橡皮护套电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core, rubber insulation, butadiene rubber sheath
JXF	铜芯橡皮绝缘氯丁护套电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core, rubber insulation, chloroprene sheath

（J- 电机绕组引接软电缆(电线)，V- 聚氯乙烯绝缘，D- 丁腈聚氯乙烯，X- 橡皮绝缘，N- 丁腈橡皮，F- 氯丁护套或丁腈聚氯乙烯复合物绝缘）

J-soft motor coil connection cable (wire) V-PVC insulation D-butadiene PVC X-rubber insulation N-butadiene rubber F-chloroprene sheath or butadiene compound PVC insulation

电缆（电线）的规格 Cable (Wire) Specifications

型号 Type	额定电压（V） Rated Voltage	芯数 Core Number	标称截面(㎜²) Nominal Cross Section Area
JV、JF	500	1	0.3~50
JXN、JXF	500		0.5~120
	1000		0.5~120
	3000		2.5~120
	6000		2.5~240



电缆（电线）的参考外径　Outer Diameter of Cable (Wire) for reference

标称截面 Nominal Cross Section Area (mm^2)	平均外径上限(mm) Max. Average Outer Diameter					标称截面 Nominal Cross Section Area (mm^2)	平均外径上限(mm) Max. Average Outer Diameter				
	JV、JF	JXN、JXF					JV、JF	JXN、JXF			
	500V	500V	1000V	3000V	6000V		500V	500V	1000V	3000V	6000V
0.3	2.4	--	--	--	--	16	9.0	11.2	12.0	15.2	18.0
0.4	2.5	--	--	--	--	25	11.5	13.7	14.6	17.8	20.6
0.5	2.6	4.3	5.1	--	--	35	12.7	14.9	15.7	18.9	21.7
0.75	2.8	4.5	5.4	--	--	50	14.7	17.1	17.9	20.9	23.3
1.0	3.0	4.7	5.5	--	--	70	--	19.6	20.5	24.0	27.0
1.5	3.3	5.0	5.9	--	--	95	--	21.9	22.8	26.5	28.9
2.5	3.9	6.2	7.1	10.3	13.5	120	--	24.6	25.0	28.6	30.8
4	4.7	6.8	7.7	11.0	14.2	150	--	--	--	--	31.5
6	6.2	7.5	8.4	12.0	15.2	185	--	--	--	--	33.5
10	7.8	10.0	10.9	14.0	16.8	240	--	--	--	--	36.5

交货要求：

1.产品交货长度按双方协议规定，计量误差允许不超过± 0.5%。

Cable Length:

1.It depends on both agreements with length error allowance no more than ± 0.5%.

90℃ 电机绕组引接软电缆(电线)

90℃ Soft Cable (Wire) for Motor Coil Connection

本产品适用于连续运行导体最高温度为 90℃的电机绕组作引接线用。

生产执行标准
JB6213.3-1992

It is used as connection cable of motor coil with continual working temperature of 90℃.

Executive Standard:
as JB6213.3-1992

使用条件

1.连续运行导体最高温度为 90℃
2.敷设时的允许弯曲半径应不小于电缆（电线）外径的 4 倍。

Working Conditions:

1.Max. conductor temperature for continual working is 90℃.
2.Bending radius allowed in installation should be no less than 4 times that of cable (wire) outer diameter.

型号及名称 Type & Description

型号 Type	名称 Description
JE	铜芯乙丙橡皮绝缘电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core, ethylene-propylene rubber insulation
JEH	铜芯乙丙橡皮绝缘氯磺化聚乙烯护套电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core, ethylene-propylene rubber insulation, chlorofenizon PE sheath
JEM	铜芯乙丙橡皮绝缘氯醚护套电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core, ethylene-propylene rubber chlorofenizon PE insulation, chloroether sheath
JH	铜芯氯磺化聚乙烯绝缘电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core, chlorofenizon PE insulation

E －乙丙橡皮 H －氯磺化聚乙烯 M- 氯醚护套

E-ethylene-Propylene rubber H-chlorfenizon PE Sheath M-chloroether sheath

电缆(电线)的规格 Cable (Wire) Specifications:

型号 Type	额定电压(V) Rated Voltage	芯数 Core Number	标称截面(mm^2) Nominal Cross-section Area
JE	500	1	0.3~10
JEH			0.3~120
JEM			
JH			0.2~10
JE	1000	1	0.3~240
JEH			5.7 0.5~120
JEM			
JH			0.2~240
JE	3000	1	2.5~240
JEH			2.5~120
JEM			
JH			2.5~240
JE	6000	1	16~240
JEH			
JEM			



电缆(电线)的参考外径　Outer Diameter of Cable (Wire) for reference:

JE、JH型　JE & JH types

标称截面 Nominal Cross Section Area (mm^2)	平均外径上限（mm） Max. Average Outer Diameter				标称截面 Nominal Cross Section Area (mm^2)	平均外径上限 (mm) Max. Average Outer Diameter			
	500V	1000V	3000V	6000V		500V	1000V	3000V	6000V
0.3	3.1	4.3	--	--	16	--	9.6	12.4	17.2
0.4	3.2	4.4	--	--	25	--	11.4	13.8	18.6
0.5	3.3	4.5	--	--	35	--	12.8	15.2	20.0
0.75	3.5	4.7	--	--	50	--	14.8	17.1	22.1
1.0	3.7	4.9	--	--	70	--	17.2	19.2	24.2
1.5	4.0	5.2	--	--	95	--	19.7	22.0	26.3
2.5	4.6	5.6	8.5	--	120	--	21.9	23.5	27.8
4	5.4	6.3	9.1	--	150	--	24.1	25.5	29.8
6	6.5	7.5	10.1	--	185	--	26.3	27.5	32.1
10	7.9	8.5	11.1	--	240	--	29.3	30.5	35.1

JEH、JEM型　JEH & JEM types

标称截面 Nominal Cross Section Area (mm^2)	平均外径上限（mm） Max. Average Outer Diameter				标称截面 Nominal Cross Section Area (mm^2)	平均外径上限 （mm） Max. Average Outer Diameter			
	500V	1000V	3000V	6000V		500V	1000V	3000V	6000V
0.3	4.0	--	--	--	16	11.2	12.0	15.2	18.0
0.4	4.1	--	--	--	25	13.7	14.6	17.8	20.6
0.5	4.3	5.1	--	--	35	14.9	15.7	18.9	21.7
0.75	4.5	5.4	--	--	50	17.1	17.9	20.9	23.3
1.0	4.7	5.5	--	--	70	19.6	20.5	24.0	27.0
1.5	5.0	5.9	--	--	95	21.9	22.8	26.5	28.9
2.5	6.2	7.1	10.3	--	120	24.6	25.0	28.6	30.8
4	6.8	7.7	11.0	--	150	--	--	--	31.5
6	7.5	8.4	12.0	--	185	--	--	--	33.5
10	10.0	10.9	14.0	--	240	--	--	--	36.5

交货要求：

产品交货长度按双方协议规定，计量误差允许不超过 ± 0.5%。

Cable Length:

It depends on both agreements with length error allowance no more than ± 0.5%.

180℃电机绕组引接软电缆(电线)

180℃ Soft Cable (Wire) for Motor Winding Connection

本产品适用于连续运行导体最高温度为 180℃的电机绕组作引接线用。

It is used as connection cable of motor coil with continual working temperature of 180℃.

生产执行标准
JB 6213.4-1992

Executive Standard:
asJB 6213.4-1992

使用条件

1.连续运行导体温度为 180℃
2.电缆（电线）的额定电压为 500V、1000V;
3.敷设时的允许弯曲半径应不小于电缆（电线）外径的 4 倍。

Working Conditions

1.Max. conductor temperature for continual working is 180℃;
2.Rated Voltage: 500V,1000V;
3.Bending radius allowed in installation should be no less than 4 times that of cable (wire) outer diameter.

型号及名称 Type & Description

型号 Type	名称 Description
JG	铜芯硅橡胶绝缘电机绕组引接电缆(电线) Motor coil connection cable (wire) with Cu core & silica rubber insulation

电缆（电线）的规格 Cable (Wire) Specifications

型号 Type	额定电压 (V) Rated Voltage	芯数 Core Number	标称截面 （mm2） Nominal Cross-section Area
JG	500、1000	1	0.75~95

电缆（电线）的参考外径 Outer Diameter of Cable (Wire) for reference

标称截面 Nominal Cross-section Area (mm^2)	平均外径上限(mm) Max. Average Outer Diameter		标称截面 Nominal Cross-section Area (mm^2)	平均外径上限(mm) Max. Average Outer Diameter	
	500V	1000V		500V	1000V
0.75	3.7	4.1	16	10.0	10.5
1.0	3.9	4.3	25	12.1	12.6
1.5	4.2	4.6	35	14.1	14.6
2.5	5.3	5.7	50	16.5	17.0
4	6.2	6.6	70	18.8	19.3
6	7.0	7.4	95	21.5	21.9
10	8.7	9.2	--	--	--

交货要求

产品交货长度按双方协议规定，计量误差允许不超过 ± 0.5%。

Cable Length:

It depends on both agreements with length error allowance no more than ± 0.5%.



隔氧层阻燃电缆

Fire-resistant Cable with Oxygen-separation Layer

本产品适用于高层建筑、油田、电站、矿山、地铁、控制、监控回路以及计算机系统中阻燃要求较高的场合，该产品主要是通过隔氧技术的开发和应用，在电缆绝缘和外护层之间填充一层无机金属化合物，它是一种无毒、无臭、不含任何卤素的胶状体。当电缆燃烧时，原先的呈软性的金属化合物受热分解，释放出结晶水及吸热，并在绝缘表面形成一层覆盖层，隔绝灼热氧气的助燃作用，使内层绝缘受到保护；结晶水的析出,水蒸气的蒸发，吸收了大量的热能，从而大大降低了外层可燃物及周围环境的温度，使着火的电缆将逐渐自行熄灭。

It is used in the environment with high demand on flame-retardant performance such as high-rise building, petrochemical industry, power station, tunnel, & subway. The jelly layer of inorganic metallic compound, which is non-toxic, free from offensive smell and halogen, is filled between insulation and outer sheath. When the cable is fired, the metallic compound is heated and dissolved absorbing heat and resulting in crystallized water. Thus covering layer is formed on the surface of insulation protecting itself from firing-assistant effect of the oxygen. The disintegration of crystallized water absorbs much heat energy, greatly reducing the temperature of outer combustible layer and that of environment and resulting in gradual self-extinction of fire on the cable.

生产执行标准:
采用 Q/TK.TY.J.04.15-2001 及 GB/T18380.3-2001 标准

Executive Standard:
as Q/TK.TY.J.04.15-2001& GB/T18380.3-2001

使用条件

1.交流额定电压：U0/U（V 系列：600/1000V，K 系列：450/750V，B 系列 450/750V）

2.电缆最高长期工作温度

①阻燃聚氯乙烯绝缘及护套：70℃和 105℃两种；交联聚乙烯绝缘：90℃

②氟塑料绝缘和护套：200℃和 260℃两种；氟塑料绝缘 105℃阻燃聚氯乙烯护套：90℃ 和 125℃ 两种。

③低烟低卤阻燃 PVC 绝缘和护套：70℃；低烟无卤阻燃聚烯烃绝缘和护套：90℃

3.最低环境温度:

①阻燃聚氯乙烯绝缘和护套：固定敷设 -40℃ ；非固定敷设 -15℃

② 氟塑料绝缘和护套：固定敷设 -60℃；非固定敷设 -20℃

4.电缆安装敷设温度应不低于 0℃

5.阻燃特性

Working Conditions:

1.A.C. Rated Voltage: U_0/U (V series: 600/1000V, K series: 450/750V, B series: 450/750V)

2.Max. long-term working temperature:

① Flame-retardant PVC insulation & sheath: 70℃ & 105℃; XLPE insulation: 90℃;

② Fluoroplastics insulation & sheath: 200℃ &260℃; Fluoroplastics insulation & 105℃flame- retardant PVC sheath: 90℃ & 125℃;

③ Low smoke & halogen, flame-retardant PVC insulation & sheath : 70℃; Low smoke, halogen-free & flame-retardant polyolefin insulation & sheath.

3.Min. environment temperature:

① Flame-retardant PVC insulation & sheath: -40℃ for fixed installation, -15℃ otherwise;

②Fluoroplastics insulation & sheath: -60℃ for fixed installation, -20℃ otherwise;

4.The temperature for installation should be no lower than 0℃.

5.Flame-retardant Characters:

	GB/T18380.3-2001	本电缆特性 Cable Performance
供火时间 Flame-supplying Time	40min	40min
自燃时间 Self-firing Time	⩽ 1h	8min
燃烧长度（合格）Fired Length (Qualified)	⩽ 2.5m	1.1m

6.敷设推荐的允许弯曲半径：非铠装、编织屏蔽电缆应不小于电缆外径的 6 倍,钢带铠装电缆应不小于电缆外径的 12 倍氟塑料　　绝缘和护套材料电缆应不小于电缆外径的 8 倍

6.Allowed bending radius recommended in installation: It should be no less than 6 times that of cable outer diameter for cable with braided shielding and no armor, 12 times for that with steel tape armor, and 8 times for that with fluoroplastics insulation and sheath.

型号、名称　　Type & Description:

型号 Type	名称 Description
GYAVV	铜芯聚氯乙烯绝缘聚氯乙烯护套隔氧层不燃电力电缆 Flame-retardant power cable with Cu core, PVC insulation & sheath, oxygen-separation layer
GYAYJV	铜芯交联聚乙烯绝缘聚氯乙烯护套隔氧层不燃电力电缆 Flame-retardant power cable with Cu core, XLPE insulation, PVC sheath, oxygen-separation layer
GYABVV	铜芯聚氯乙烯绝缘聚氯乙烯护套隔氧层不燃电缆（电线） Flame-retardant power cable with Cu core, PVC insulation & sheath, oxygen-separation layer
GYAKVV	铜芯聚氯乙烯绝缘聚氯乙烯护套隔氧层不燃控制电缆 Flame-retardant control cable with Cu core, PVCinsulation & sheath, oxygen-separation layer
GYAKV$_D$V$_D$	铜芯低烟低卤绝缘低烟低卤护套隔氧层不燃控制电缆 Flame-retardant control cable with Cu core, low smoke and halogen insulation & sheath, oxygen-separation layer
GWLKVV	铜芯低烟无卤绝缘低烟无卤护套隔氧层不燃控制电缆 Flame-retardant control cable with Cu core, low smoke and halogen-free insulation & sheath, oxygen-separation layer
GYAKFF	铜芯氟塑料绝缘氟塑料护套隔氧层不燃控制电缆 Flame-retardant control cable with Cu core, fluoroplastics insulation & sheath, oxygen-separation layer

注:同时可以提供铠装型、屏蔽型及软结构隔氧层电缆;GY- 隔氧层阻燃电缆 A-A 类阻燃　WL- 低烟无卤 V$_D$- 低烟低卤

Remarks: We also produce cable with armor, shielding, soft structure & oxygen-separation layer.　GY- Flame-retardant cable with oxygen-separation layerA-Type　A flame retardation WL-low smoke and free from halogen V$_D$-low smoke & halogen

规格范围　　Specification Range:

型号 Type	电压等级 （V） Voltage	规格，截面 Specification & Cross-section Area	
GYAVV GYAYJV	600/1000	芯数:1~4 芯,3+2 芯 截面:1.5~240(mm^2)芯	Core Number: 1~4 cores, 3+2 cores Cross-section Area: 1.5~240 mm^2
GYAKVV　GYAKFF GYAKV$_D$V$_D$　GWLKVV	450/750	数:2~61 芯 截面:0.75~10(mm^2)	Core Number: 2~61 cores Cross-section Area: 0.75~10 mm^2
GYABVV	450/750	芯数:1~5 芯 截面:0.5~240(mm^2)	Core Number: 1~5 cores Cross-section Area: 0.5~240 mm^2

技术特性

1.产品的电气性能和物理机械性能与普通同类产品的性能一致;

2.电缆的载流量和普通同类产品相同;

3.阻燃性能满足 GBGB/T18380.3-2001 要求

Technical Characters:

1.The electric and physical performance remains the same as that of common type.

2.The current-loading capacity remains the same as that of common type.

3.Flame-retardant performance meets the demands in GB/T18380.3-2001.

使用注意事项

电缆的允许弯曲半径: 与同规格的非隔氧层电缆基本相同

Cautions:

Allowed cable bending radius remains the same as that of the cable of the same specification without oxygen-separation layer.

交货要求

根据协议允许任何长度交货，计量误差允许不超过 ± 0.5%。

Cable Length:

It depends on both agreements with length error allowance no more than ± 0.5%.



耐热硅橡胶控制电缆

Heat-resistant Silica Rubber Control Cable

本产品适用于钢铁、冶炼、电厂、焦化厂、航空、冶金机械、石油化工等高温工业中，额定电压450/750V及以下的控制及监控回路中。它具有优良的耐高温、阻燃、耐辐射、耐老化、耐臭氧、防水等特性同时具有很好的耐寒性、耐候性。

生产执行标准:
采用 Q/TK.TY.J.04.16-2001 标准。

It is used for supervision and contol return circuit of rated voltage 450/750V or lower for production under high temperature in steel & iron, refinery, power plant, coking plant, aviation, metallurgy, machinery, and petrochemical industry, etc. It has better performance of resisting heat, fire, radiation, aging, ozone corrosion, water,coldness, and bad weather.

Executive Standard:
as Q/TK.TY.J.04.16-2001

使用条件

1.工作温度-50℃ ~180℃ ，推荐弯曲半径不小于电缆外径的6倍;

2.有优良的耐氧、耐臭氧、耐紫外线照射性能，长期在室外使用不发生龟裂;

3.有卓越的电性能，耐电晕性和耐电弧性也非常好;

4.有优良的物理机械性能，在150℃高温下，其机械性能远远优越于通用橡胶电缆；具有良好的耐化学物质性能，耐燃料油及油类性能;

5.无臭、无味、无毒，具有低表面活性和低吸湿性性能。

Working Conditions

1.Working temperature: -50℃~180℃; Bending radius recommended should be no less than 6 times that of cable outer diameter.

2.It has good performance of resisting oxidization, ozone, and ultraviolet irradiation. No tortoise shell crack should be found for long-term usage.

3.It has good electric performance of resisting corona and electric arc.

4.It has good physic and mechanical performance, and its mechanical performance under 105℃ is far better than that of general rubber cable. It also has good performance of resisting chemical and petroleum corrosion.

5.It has no offensive odor or toxicity. It is less active on its surface, and has low moisture absorbency.

型号名称及主要使用范围

Type, Description & Application Range

型号 Type	名称 Description	主要使用范围 Application Range
KGG	铜芯硅橡胶绝缘硅橡胶护套控制电缆 Control cable with Cu core, silica rubber insulation & sheath	敷设在室内、电缆沟、管道固定场合 To be fixedly laid indoors, in cable furrow, or pipe
KGGP	铜芯硅橡胶绝缘硅橡胶护套编织屏蔽控制电缆 Control cable with Cu core, silica rubber insulation & sheath, braided shielding	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 To be fixedly laid indoors, in cable furrow, pipe or other environment with demand on shielding
$KGGP_2$	铜芯硅橡胶绝缘硅橡胶护套铜带屏蔽控制电缆 Control cable with Cu core, silica rubber insulation & sheath, Cu tape shielding	同 上 As above
KGG22	铜芯硅橡胶绝缘硅橡胶护套钢带铠装控制电缆 Control cable with Cu core, silica rubber insulation & sheath, steel tape armor	敷设在室内、电缆沟、管道、直埋等能承受较大机械外力等固定场合 To be fixedly laid indoors, in cable furrow, pipe or other environment with demand on enduring mechanical force outside
KGG32	铜芯硅橡胶绝缘硅橡胶护套细钢丝铠装控制电缆 Control cable with Cu core, silica rubber insulation & sheath, thin steel wire armor	敷设在室内、电缆沟、管道、竖井等能承受较大机械拉力等固定场合 To be fixedly laid indoors, in cable furrow, pipe, erect well or other environment with demand on enduring mechanical force outside
KGGR	铜芯硅橡胶绝缘硅橡胶护套控制软电缆 Soft control cable with Cu core, silica rubber insulation & sheath,	敷设在室内移动要求柔软等场合 Indoors, or the environment with demand on softness and mobility
KGGRP	铜芯硅橡胶绝缘硅橡胶护套编织屏蔽控制软电缆 Soft control cable with Cu core, silica rubber insulation & sheath, braided shielding	敷设在室内移动要求柔软、屏蔽等场合 To be laid indoors, or the environment with demand on softness, mobility and shielding

电缆的外形尺寸及最小绝缘电阻

Structural Sizes & Min. Insulation Resistance:

KGG 型 450/750V 铜芯硅橡胶绝缘和护套控制电缆

KGG type 450/750V control cable with Cu core, Silica rubber insulation & sheath

芯数 × 标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数 × 标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
2 × 0.75	2	8.4	0.014	8 × 0.75	2	12.0	0.014
2 × 1.0	2	8.8	0.013	8 × 1.5	2	15.5	0.010
2 × 1.5	2	10.0	0.010	16 × 1.0	2	17.0	0.013
2 × 2.5	2	11.5	0.009	16 × 1.5	2	19.5	0.010
2 × 4	2	12.5	0.0070	16 × 2.5	2	23.0	0.009
2 × 6	2	14.0	0.0065	19 × 0.75	2	16.5	0.014
2 × 10	2	17.5	0.0065	19 × 1.0	2	17.5	0.013
4 × 0.75	2	9.6	0.014	19 × 1.5	2	20.5	0.010
4 × 1.0	2	10.0	0.013	19 × 2.5	2	24.0	0.009
4 × 1.5	2	11.5	0.010	24 × 0.75	2	19.0	0.014
4 × 2.5	2	13.0	0.009	24 × 1.0	2	20.5	0.013
4 × 4	2	15.0	0.0077	24 × 1.5	2	24.0	0.010
4 × 6	2	16.5	0.0065	24 × 2.5	2	28.0	0.009
4 × 10	2	20.0	0.0065	27 × 0.75	2	19.5	0.014
5 × 0.75	2	10.5	0.014	27 × 1.0	2	20.5	0.013
5 × 1.0	2	11.0	0.013	27 × 1.5	2	24.5	0.010
5 × 1.5	2	12.5	0.010	27 × 2.5	2	28.5	0.009
5 × 2.5	2	14.5	0.009	30 × 0.75	2	20.0	0.014
5 × 4	2	16.5	0.0077	30 × 1.0	2	22.0	0.013
5 × 6	2	18.0	0.0065	12 × 2.5	2	20.5	0.009
5 × 10	2	22.5	0.0065	12 × 4	2	23.0	0.0077
3 × 0.75	2	8.8	0.014	12 × 6	2	26.0	0.0065
3 × 1.5	2	10.5	0.010	14 × 0.75	2	15.0	0.014
3 × 2.5	2	12.0	0.009	14 × 1.0	2	16.0	0.013
3 × 4	2	13.5	0.0077	14 × 1.5	2	18.5	0.010
3 × 6	2	15.0	0.0065	14 × 2.5	2	21.5	0.009
3 × 10	2	18.5	0.0065	14 × 4	2	24.5	0.0077
8 × 2.5	2	17.5	0.009	14 × 6	2	27.0	0.0065
8 × 4	2	19.5	0.0077	16 × 0.75	2	16.0	0.014
8 × 6	2	22.0	0.0065	30 × 2.5	2	29.5	0.009
8 × 10	2	27.0	0.0065	30 × 1.5	2	25.0	0.010
10 × 0.75	2	13.5	0.014	37 × 0.75	2	22.0	0.014
10 × 1.0	2	15.0	0.013	44 × 1.0	2	26.0	0.013
10 × 1.5	2	17.0	0.010	44 × 1.5	2	30.5	0.010
10 × 2.5	2	19.5	0.009	44 × 2.5	2	36.0	0.009
10 × 4	2	22.5	0.0077	48 × 0.75	2	25.0	0.014
10 × 6	2	25.0	0.0065	48 × 1.0	2	26.5	0.013
10 × 10	2	30.5	0.0065	48 × 1.5	2	31.0	0.010
12 × 0.75	2	14.5	0.014	48 × 2.5	2	37.0	0.009
12 × 1.0	2	15.5	0.013	52 × 0.75	2	25.0	0.014
12 × 1.5	2	17.5	0.010	52 × 1.0	2	27.0	0.013
7 × 0.75	2	11.0	0.014	52 × 1.5	2	31.5	0.010
7 × 1.0	2	11.5	0.013	52 × 2.5	2	38.0	0.009
7 × 1.5	2	13.5	0.010	61 × 0.75	2	27.0	0.014
7 × 2.5	2	16.0	0.009	61 × 1.0	2	28.5	0.013
7 × 4	2	17.5	0.0077	61 × 1.5	2	34.0	0.010
7 × 6	2	19.5	0.0065	61 × 2.5	2	40.5	0.009
7 × 10	2	24.0	0.0065				



KGGP 型 450/750V 铜芯硅橡胶绝缘和护套编织屏蔽控制电缆

KGGP type 450/750V control cable with Cu core, silica rubber insulation sheath and braided shielding

芯数 × 标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数 × 标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
2 × 0.75	2	9.8	0.014	8 × 4	2	21.0	0.0077
2 × 1.0	2	10.5	0.013	8 × 6	2	24.0	0.0065
2 × 1.5	2	11.5	0.010	8 × 10	2	29.0	0.0065
2 × 2.5	2	12.2	0.009	10 × 0.75	2	16.0	0.014
2 × 4	2	14.5	0.0077	10 × 1.0	2	16.5	0.013
2 × 6	2	16.0	0.0065	10 × 1.5	2	18.5	0.010
2 × 10	2	19.0	0.0065	10 × 2.5	2	21.5	0.009
3 × 0.75	2	10.5	0.014	10 × 4	2	24.0	0.0077
3 × 1.0	2	10.5	0.013	10 × 6	2	27.0	0.0065
3 × 1.5	2	12.0	0.010	10 × 10	2	32.5	0.0065
3 × 2.5	2	13.5	0.009	12 × 0.75	2	16.0	0.014
3 × 4	2	15.5	0.0077	12 × 1.0	2	17.0	0.013
3 × 6	2	17.0	0.0065	12 × 1.5	2	19.0	0.010
3 × 10	2	20.0	0.0065	12 × 2.5	2	22.5	0.009
4 × 0.75	2	11.0	0.014	12 × 4	2	25.0	0.0077
4 × 1.0	2	11.5	0.013	12 × 6	2	27.5	0.0065
4 × 1.5	2	12.5	0.010	14 × 0.75	2	17.0	0.014
4 × 2.5	2	15.0	0.009	14 × 1.0	2	17.5	0.013
4 × 4	2	16.5	0.0077	14 × 1.5	2	20.0	0.010
4 × 6	2	18.0	0.0065	14 × 2.5	2	23.5	0.009
4 × 10	2	22.0	0.0065	14 × 4	2	26.0	0.0077
5 × 0.75	2	11.5	0.014	14 × 6	2	29.0	0.0065
5 × 1.0	2	12.0	0.013	16 × 0.75	2	17.5	0.014
5 × 1.5	2	13.5	0.010	16 × 1.0	2	18.5	0.013
5 × 2.5	2	16.5	0.009	16 × 1.5	2	21.0	0.010
5 × 4	2	18.0	0.0077	16 × 2.5	2	24.0	0.009
5 × 6	2	19.5	0.0065	19 × 0.75	2	18.0	0.014
5 × 10	2	24.0	0.0065	19 × 1.0	2	19.0	0.013
7 × 0.75	2	12.5	0.014	19 × 1.5	2	22.5	0.010
7 × 1.0	2	13.0	0.013	19 × 2.5	2	25.5	0.009
7 × 1.5	2	15.0	0.010	24 × 0.75	2	20.5	0.014
7 × 2.5	2	17.5	0.009	24 × 1.0	2	22.0	0.013
7 × 4	2	19.0	0.0077	24 × 1.5	2	25.5	0.010
7 × 6	2	21.0	0.0065	24 × 2.5	2	29.5	0.009
7 × 10	2	26.9	0.0065	27 × 0.75	2	21.0	0.014
8 × 0.75	2	13.5	0.014	27 × 1.0	2	22.5	0.013
8 × 1.0	2	15.0	0.013	27 × 1.5	2	20.0	0.010
8 × 1.5	2	17.0	0.010	27 × 2.5	2	30.5	0.009
8 × 2.5	2	19.0	0.009				

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
30 × 0.75	2	22.0	0.014	48 × 0.75	2	26.5	0.014
30 × 1.0	2	23.5	0.013	48 × 1.0	2	28.0	0.013
30 × 1.5	2	27.0	0.010	48 × 1.5	2	32.5	0.010
30 × 2.5	2	31.5	0.009	48 × 2.5	2	39.0	0.009
37 × 0.75	2	23.5	0.014	52 × 0.75	2	27.5	0.014
37 × 1.0	2	25.0	0.013	52 × 1.0	2	29.0	0.013
37 × 1.5	2	23.0	0.010	52 × 1.5	2	34.0	0.010
37 × 2.5	2	34.0	0.009	52 × 2.5	2	40.5	0.009
44 × 0.75	2	26.5	0.014	61 × 0.75	2	29.0	0.014
44 × 1.0	2	28.0	0.013	61 × 1.0	2	30.5	0.013
44 × 1.5	2	22.9	0.010	61 × 1.5	2	30.6	0.010
44 × 2.5	2	38.5	0.009	61 × 2.5	2	42.5	0.009

$KGGP_2$ 型 450/750V 铜芯硅橡胶绝缘和护套铜带屏蔽控制电缆

$KGGP_2$ type 450/750V control cable with Cu core, silica rubber insulation sheath and Cu tape armor

芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm^2)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
4 × 0.75	2	10.0	0.012	8 × 0.75	2	12.5	0.012
4 × 1.0	2	10.5	0.011	8 × 1.0	2	13.5	0.011
4 × 1.5	2	11.5	0.011	8 × 1.5	2	15.5	0.011
4 × 2.5	2	14.0	0.010	8 × 2.5	2	17.5	0.010
4 × 4	2	15.0	0.0085	8 × 4	2	19.0	0.0085
4 × 6	2	16.0	0.0070	8 × 6	2	21.0	0.0070
4 × 10	2	21.5	0.0065	8 × 10	2	23.0	0.0065
5 × 0.75	2	11.0	0.012	10 × 0.75	2	14.5	0.012
5 × 1.0	2	11.0	0.011	10 × 1.0	2	15.0	0.011
5 × 1.5	2	12.8	0.011	10 × 1.5	2	17.0	0.011
5 × 2.5	2	15.0	0.010	10 × 2.5	2	19.5	0.010
5 × 4	2	16.0	0.0085	10 × 4	2	21.5	0.0085
5 × 6	2	17.5	0.0070	10 × 6	2	23.5	0.0070
5 × 10	2	23.5	0.0065	10 × 10	2	31.5	0.0065
7 × 0.75	2	11.5	0.012	12 × 0.75	2	14.5	0.012
7 × 1.0	2	12.0	0.011	12 × 1.0	2	15.5	0.011
7 × 1.5	2	14.0	0.011	12 × 1.5	2	17.5	0.011
7 × 2.5	2	16.0	0.010	12 × 2.5	2	20.5	0.010
7 × 4	2	17.5	0.0085	12 × 4	2	22.5	0.0085
7 × 6	2	19.0	0.0070	12 × 6	2	24.5	0.0070
7 × 10	2	25.0	0.0065	14 × 0.75	2	15.5	0.012
14 × 1.0	2	16.0	0.011	30 × 1.5	2	24.0	0.011
14 × 1.5	2	18.0	0.011	30 × 2.5	2	23.0	0.010
14 × 2.5	2	21.0	0.010	37 × 0.75	2	21.5	0.012
14 × 4	2	23.5	0.008	37 × 1.0	2	22.5	0.011
14 × 6	2	25.5	0.007	37 × 1.5	2	26.0	0.011
16 × 0.75	2	16.0	0.012	37 × 2.5	2	30.0	0.010
16 × 1.0	2	16.5	0.011	44 × 0.75	2	24.0	0.012
16 × 1.5	2	19.0	0.011	44 × 1.0	2	25.0	0.011



芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
16 × 2.5	2	22.0	0.010	44 × 1.5	2	29.0	0.011
19 × 0.75	2	16.5	0.012	44 × 2.5	2	34.5	0.010
19 × 1.0	2	17.5	0.011	48 × 0.75	2	24.0	0.012
19 × 1.5	2	20.0	0.011	48 × 1.0	2	25.5	0.011
19 × 2.5	2	23.0	0.010	48 × 1.5	2	29.5	0.011
24 × 0.75	2	19.0	0.012	48 × 2.5	2	35.0	0.010
24 × 1.0	2	20.5	0.011	52 × 0.75	2	24.5	0.012
24 × 1.5	2	23.0	0.011	52 × 1.0	2	26.0	0.011
24 × 2.5	2	20.5	0.010	52 × 1.5	2	30.0	0.011
27 × 0.75	2	19.0	0.012	52 × 2.5	2	36.0	0.010
27 × 1.0	2	20.5	0.011	61 × 0.75	2	24.5	0.012
27 × 1.5	2	23.5	0.011	61 × 1.0	2	27.5	0.011
27 × 2.5	2	27.0	0.010	61 × 1.5	2	32.5	0.011
30 × 0.75	2	20.0	0.012	61 × 2.5	2	33.5	0.010
30 × 1.0	2	21.5	0.011				

KGG22 型 450/750V 铜芯硅橡胶绝缘和护套钢带铠装控制电缆

KGG22 type 450/750V control cable with Cu core, silica rubber insulation sheath and steel tape armor

芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
4 × 2.5	2	17.0	0.010	16 × 0.75	2	19.5	0.012
4 × 4	2	18.5	0.0085	16 × 1.0	2	20.0	0.011
4 × 6	2	19.0	0.0070	16 × 1.5	2	22.5	0.011
4 × 10	2	25.0	0.0065	16 × 2.5	2	25.5	0.010
5 × 2.5	2	18.0	0.010	19 × 0.75	2	20.0	0.012
5 × 4	2	19.5	0.0085	19 × 1.0	2	21.5	0.011
5 × 6	2	21.5	0.0070	19 × 1.5	2	23.5	0.011
5 × 10	2	26.5	0.0065	19 × 2.5	2	26.5	0.010
7 × 0.75	2	15.5	0.012	24 × 0.75	2	22.5	0.012
7 × 1.0	2	16.0	0.011	24 × 1.0	2	23.5	0.011
7 × 1.5	2	17.5	0.011	24 × 1.5	2	26.5	0.011
7 × 2.5	2	19.0	0.010	24 × 2.5	2	30.0	0.010
7 × 4	2	20.5	0.0085	27 × 0.75	2	23.0	0.012
7 × 6	2	22.5	0.0070	27 × 1.0	2	24.0	0.011
7 × 10	2	23.5	0.0065	27 × 1.5	2	37.0	0.011
8 × 0.75	2	16.5	0.012	27 × 2.5	2	30.5	0.010
8 × 1.0	2	17.0	0.011	30 × 0.75	2	23.0	0.012
8 × 1.5	2	13.5	0.011	30 × 1.0	2	24.5	0.011
8 × 2.5	2	21.0	0.010	30 × 1.5	2	27.5	0.011
8 × 4	2	23.0	0.0085	30 × 2.5	2	31.5	0.010
8 × 6	2	24.5	0.0070	37 × 0.75	2	25.0	0.012
8 × 10	2	31.5	0.0065	37 × 1.0	2	27.5	0.011
10 × 0.75	2	18.0	0.012	37 × 1.5	2	29.7	0.011
10 × 1.0	2	18.5	0.011	37 × 2.5	2	32.0	0.010
10 × 1.5	2	20.5	0.011	44 × 0.75	2	27.0	0.012
10 × 2.5	2	23.5	0.010	44 × 1.0	2	28.5	0.011

芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ·km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ·km
10 × 2.5	2	23.5	0.010	44 × 1.0	2	28.5	0.011
10 × 4	2	25.0	0.0085	44 × 1.5	2	33.0	0.011
10 × 6	2	27.0	0.0070	44 × 2.5	2	33.0	0.010
10 × 10	2	35.0	0.0065	48 × 0.75	2	27.5	0.012
12 × 0.75	2	18.0	0.012	48 × 1.0	2	23.0	0.011
12 × 1.0	2	19.0	0.011	48 × 1.5	2	34.0	0.011
12 × 1.5	2	20.5	0.011	48 × 2.5	2	33.5	0.010
12 × 2.5	2	23.5	0.010	52 × 0.75	2	26.8	0.012
12 × 4	2	25.5	0.0085	52 × 1.0	2	28.9	0.011
12 × 6	2	28.0	0.0070	52 × 1.5	2	33.5	0.011
14 × 0.75	2	18.5	0.012	52 × 2.5	2	39.3	0.010
14 × 1.0	2	19.5	0.011	61 × 0.75	2	29.5	0.012
14 × 1.5	2	22.0	0.011	61 × 1.0	2	31.0	0.011
14 × 2.5	2	24.5	0.010	61 × 1.5	2	36.5	0.011
14 × 4	2	26.5	0.0085	61 × 2.5	2	42.5	0.010

KGG32型450/750V铜芯硅橡胶绝缘和护套细钢丝铠装控制电缆

KGG32 type 450/750V control cable with Cu core, silica rubber insulation sheath and thin steel wire armor

芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ·km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ·km
4 × 4	2	20.5	0.0085	19 × 2.5	2	27.0	0.011
4 × 6	2	21.5	0.0070	24 × 0.75	2	30.0	0.011
4 × 10	2	28.0	0.0065	24 × 1.0	2	29.5	0.010
5 × 4	2	21.5	0.0085	24 × 1.5	2	25.5	0.012
5 × 6	2	23.5	0.0070	24 × 2.5	2	26.5	0.011
5 × 10	2	29.5	0.0065	27 × 0.75	2	29.5	0.011
7 × 1.5	2	19.5	0.011	27 × 1.0	2	33.5	0.010
7 × 2.5	2	21.5	0.010	27 × 1.5	2	26.0	0.012
7 × 4	2	23.0	0.0085	27 × 2.5	2	34.0	0.010
7 × 6	2	24.5	0.0070	30 × 0.75	2	26.5	0.012
7 × 10	2	31.5	0.0065	30 × 1.0	2	27.5	0.011
8 × 1.5	2	31.0	0.011	30 × 1.5	2	30.5	0.011
8 × 2.5	2	23.5	0.010	30 × 2.5	2	34.5	0.010
8 × 4	2	26.0	0.0085	37 × 0.75	2	28.0	0.012
8 × 6	2	27.5	0.0070	37 × 1.0	2	29.0	0.011
8 × 10	2	34.5	0.0065	37 × 1.5	2	33.0	0.011
10 × 1.5	2	23.0	0.011	37 × 2.5	2	38.5	0.010
10 × 2.5	2	26.0	0.010	44 × 0.75	2	30.0	0.012
10 × 4	2	28.0	0.0085	44 × 1.0	2	31.5	0.011
10 × 6	2	30.0	0.0070	44 × 1.5	2	36.0	0.011
10 × 10	2	33.5	0.0065	44 × 2.5	2	42.0	0.010
12 × 1.5	2	23.5	0.011	48 × 0.75	2	30.5	0.012
12 × 2.5	2	26.5	0.010	48 × 1.0	2	32.5	0.011
12 × 4	2	28.5	0.0085	48 × 1.5	2	37.5	0.011
12 × 6	2	31.0	0.0070	48 × 2.5	2	42.5	0.010
14 × 1.5	2	24.0	0.011	52 × 0.75	2	31.0	0.012
14 × 2.5	2	27.5	0.010	52 × 1.0	2	33.0	0.011



芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
14 × 4	2	29.5	0.0085	52 × 1.5	2	33.0	0.011
14 × 6	2	32.0	0.0070	52 × 2.5	2	43.5	0.010
16 × 1.5	2	25.5	0.011	61 × 0.75	2	33.0	0.012
16 × 2.5	2	28.5	0.010	61 × 1.0	2	34.5	0.011
19 × 0.75	2	22.0	0.012	61 × 1.5	2	40.0	0.011
19 × 1.0	2	23.5	0.011	61 × 2.5	2	46.5	0.010
19 × 1.5	2	26.5	0.011				

芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
4 × 0.5	3	9.0	0.013	19 × 0.5	3	15.5	0.013
4 × 0.75	3	9.4	0.011	19 × 0.75	3	16.5	0.011
4 × 1.0	3	10.0	0.010	19 × 1.0	3	17.5	0.010
4 × 1.5	3	11.5	0.010	19 × 1.5	3	20.0	0.010
4 × 2.5	3	13.0	0.009	19 × 2.5	3	24.0	0.009
5 × 0.5	3	9.6	0.013	24 × 0.5	3	18.0	0.013
5 × 0.75	3	10.5	0.011	24 × 0.75	3	19.0	0.011
5 × 1.0	3	11.0	0.010	24 × 1.0	3	20.0	0.010
5 × 1.5	3	12.0	0.010	24 × 1.5	3	23.5	0.010
5 × 2.5	3	14.5	0.009	24 × 2.5	3	27.5	0.009
7 × 0.5	3	10.5	0.013	27 × 0.5	3	18.0	0.013
7 × 0.75	3	11.0	0.011	27 × 0.75	3	19.5	0.011
7 × 1.0	3	11.5	0.010	27 × 1.0	3	20.5	0.010
7 × 1.5	3	13.0	0.010	27 × 1.5	3	24.0	0.010
7 × 2.5	3	16.0	0.009	27 × 2.5	3	28.5	0.009
8 × 0.5	3	11.5	0.013	30 × 0.5	3	18.5	0.013
8 × 0.75	3	12.0	0.011	30 × 0.75	3	20.0	0.011
8 × 1.0	3	13.0	0.010	30 × 1.0	3	21.5	0.010
8 × 1.5	3	15.0	0.010	30 × 1.5	3	25.0	0.010
8 × 2.5	3	17.5	0.009	30 × 2.5	3	29.5	0.009
10 × 0.5	3	12.5	0.013	37 × 0.5	3	20.0	0.013
10 × 075	3	13.5	0.011	37 × 0.75	3	21.5	0.011
10 × 1.0	3	15.0	0.010	37 × 1.0	3	23.5	0.010
10 × 1.5	3	17.0	0.010	37 × 1.5	3	27.0	0.010
10 × 2.5	3	19.5	0.009	37 × 2.5	3	31.5	0.009
12 × 0.5	3	13.0	0.013	44 × 0.5	3	22.5	0.013
12 × 0.75	3	14.5	0.011	44 × 0.75	3	24.5	0.011
12 × 1.0	3	15.5	0.010	44 × 1.0	3	26.0	0.010
12 × 1.5	3	17.5	0.010	44 × 1.5	3	30.0	0.010
12 × 2.5	3	20.5	0.009	44 × 2.5	3	36.0	0.009
14 × 0.5	3	13.5	0.013	48 × 0.5	3	23.0	0.013
14 × 0.75	3	15.0	0.011	48 × 0.75	3	25.0	0.011
14 × 1.0	3	16.0	0.010	48 × 1.0	3	26.5	0.010
14 × 1.5	3	18.0	0.010	48 × 1.5	3	30.5	0.010

芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
14 × 2.5	3	21.0	0.009	48 × 2.5	3	36.5	0.009
16 × 0.5	3	15.0	0.013	52 × 0.5	3	23.5	0.013
16 × 0.75	3	16.0	0.011	52 × 0.75	3	25.5	0.011
16 × 1.0	3	17.0	0.010	52 × 1.0	3	27.0	0.010
16 × 1.5	3	19.0	0.010	52 × 1.5	3	31.0	0.010
16 × 2.5	3	23.0	0.009	52 × 2.5	3	37.5	0.00

KGGRP 型 450/750V 铜芯硅橡胶绝缘和护套编织屏蔽控制软电缆

KGGRP type 450/750V soft control cable with Cu core, silica rubber insulation sheath and braid shielding

芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km	芯数×标称截面 Core Number × Nominal Cross Section Area (mm²)	导体种类 Conductor Category	外径 Outer Diameter (mm) 上限 Max.	70℃最小绝缘电阻 Min. Insulation Resistance at 70℃ MΩ • km
4 × 0.5	3	10.5	0.013	14 × 1.0	3	17.5	0.010
4 × 0.75	3	11.0	0.011	14 × 1.5	3	20.0	0.010
4 × 1.0	3	11.5	0.010	14 × 2.5	3	23.0	0.009
4 × 1.5	3	12.5	0.010	16 × 0.5	3	16.5	0.013
4 × 2.5	3	15.0	0.009	16 × 0.75	3	17.5	0.011
5 × 0.5	3	11.0	0.013	16 × 1.0	3	18.5	0.010
5 × 0.75	3	11.5	0.011	16 × 1.5	3	20.5	0.010
5 × 1.0	3	12.0	0.010	16 × 2.5	3	24.5	0.009
5 × 1.5	3	13.5	0.010	19 × 0.5	3	17.0	0.013
5 × 2.5	3	16.0	0.009	19 × 0.75	3	18.0	0.011
7 × 0.5	3	11.5	0.013	19 × 1.0	3	19.0	0.010
7 × 0.75	3	12.5	0.011	19 × 1.5	3	22.0	0.010
7 × 1.0	3	13.0	0.011	19 × 2.5	3	25.5	0.009
7 × 1.5	3	15.0	0.010	24 × 0.5	3	19.5	0.013
7 × 2.5	3	17.5	0.009	24 × 0.75	3	20.5	0.011
8 × 0.5	3	13.0	0.013	24 × 1.0	3	22.0	0.010
8 × 0.75	3	13.5	0.011	24 × 1.5	3	25.0	0.010
8 × 1.0	3	15.0	0.010	24 × 2.5	3	29.5	0.009
8 × 1.5	3	17.0	0.010	27 × 0.5	3	19.5	0.013
8 × 2.5	3	19.0	0.009	27 × 1.0	3	22.5	0.010
10 × 0.5	3	14.5	0.013	27 × 1.5	3	25.5	0.010
10 × 0.75	3	15.5	0.011	30 × 1.0	3	23.5	0.010
10 × 1.0	3	16.5	0.010	30 × 1.5	3	37.0	0.010
10 × 1.5	3	18.5	0.010	37 × 1.0	3	25.0	0.010
10 × 2.5	3	21.0	0.009	37 × 1.5	3	28.5	0.010
12 × 0.5	3	15.0	0.013	44 × 1.0	3	27.5	0.010
12 × 0.75	3	16.0	0.011	44 × 1.5	3	32.0	0.010
12 × 1.0	3	17.0	0.010	48 × 1.0	3	28.0	0.010
12 × 1.5	3	19.0	0.010	48 × 1.5	3	32.0	0.010
12 × 2.5	3	22.5	0.009	52 × 1.0	3	29.0	0.010
14 × 0.5	3	16.0	0.013	61 × 1.0	3	30.5	0.010
14 × 0.75	3	16.5	0.011				

交货长度

按双方协议长度交货。

Cable Length:

It depends on final both agreements.



自控温系列伴热电缆

Self-Thermal Control Heating Cable

自控温伴热电缆是由导电聚合物和两根平行金属导线及绝缘护层构成。其特点是导电聚合物具有很高的正温度系数特性，且互相并联，能随被加热体系的温度变化自动调节输出功率，自动限制加热的温度，可以任意截短或在一定范围内接长使用，并允许多次交叉重叠而无高温热点及烧毁之虑。

生产执行标准：
采用 Q/TK.TY.J.04.20-2001 标准

It consists of conductive polymer, two pieces of paralleled metallic conductor and insulation. Its conductive polymer has very high plus thermal coefficient and is in parallel connection. Automatic regulation on output power as thermal change of the system being heated results in automatic regulation on heating temperature. There are many choices on the cable length according to the application occasion. The overlapping of the cable is allowed, which results in no extreme heat or burning.

Executive Standard:
asQ/TK.TY.J.04.20-2001

自控温电热带使用特性：

1.电热带相应被伴热体系具有自动调节输出功率，因此不会因自身发热而烧毁，却因实际需要热量进行补偿;
2.低温状态快速起动，温度均匀，因每一局部皆可因其被伴热处的温度变化自动调节;
3.安装简便、维护简单、全天服务，自动化水平高，运行及维护费用低;
4.安全可靠、用途广、不污染环境、寿命长。

Performance in Usage:

1.The automatic regulation on output power could be realized on heating part according to the change of heated system, which results in no extreme heat or burning.
2.Quick start at low temperature, each part temperature is under automatic regulation results in evenly heating;
3.Easy installation, simple maintenance, 24 hours in service, with high automation level and low operation and maintenance cost;
4.Safe and reliable, with wide application, environment-friendly, long life expectancy

产 品 介 绍

低温系列(DXW)

本产品专用于工艺管线或容器储罐及仪表的防冻和恒温，最高维持温度为70 ± 5 ℃，伴热线适用于普通区、危险区和腐蚀区。

性能参数：

标准颜色：	黑色、蓝色。
温度范围：	最高维持温度 65℃ 最高表面温度 70℃
施工温度：	最低 -40℃
热稳定性：	通断1000 次连续22 天，热线发热量维持在 90%以上。
绕曲半径：	20℃室温时为 12.7mm,-30℃低温时为 35.0mm。
绝缘电阻：	环境温度75℃时，2500VDC 摇表摇试验 1 分钟，绝缘电阻（导线与屏蔽间）最小值为 100M Ω
工作电压：	12V、24V、36V、110V、 220V、380V
10℃时输出功率：	10、15、25、35、45W/m

Products Introduction:

L Temperature Series (DXW)

It is specially used to resist freezing and keep constant temperature for pipes, containers, or instruments. Max. maintaining temperature is 70 ± 5℃. It is suitable for common area, dangerous area and corrosion area.

Performance Parameters:

Standard Color:	black, blue
Temperature Range:	Max. Maintaining Temperature 65℃ Max. Surface Temperature 70℃
Temperature for Mounting:	Max. Sustainable Temperature 135℃ Min. -40℃
Thermal Stability:	1000 times of breaks and contacts for continual 22 days, the heating volume keeps more than 90%.
Bending Radius:	12.7mm for room temperature 20℃, 35.0mm for low temperature -30℃
Insulation Resistance:	Min. insulation resistance (between conductor and shield) should be 100M Ω after 1-minute test with D.C. 2500V instrument at the environment temperature of 75℃.
Working Voltage:	12V、24V、36V、110V、 220V、380V
Output Power at 10℃:	10、15、25、35、45W/m

中温系列(ZXW)

本产品专用于工艺管线或容器储罐及仪器仪表的防冻和恒温及局部加热，最高维持温度为105℃，伴热线适用于普通区、危险区和腐蚀区。

性能参数：

标准颜色:	黑色、褐色、桔黄色。
温度范围:	最高维持温度105℃ 最高表面温度为105℃ 最高承受温度135℃
施工温度:	最低-30℃
热稳定性:	通断1000次连续22天，热线发热量维持在90%以上。
绕曲半径:	20℃室温时为12.7mm,-30℃低温时为35.0mm.
绝缘电阻:	环境温度75℃时,2500VDC摇表摇试验1分钟,绝缘电阻(导线与屏蔽间)最小值为100MΩ
工作电压:	12V、24V、36V、110V、220V、380V
10℃时输出功率:	25、35、4 5、55、65、75W/m。

M Temperature Series (ZXW)

It is specially used to resist freezing, keep constant temperature and for partial heating for pipes, containers, or instruments. The summit maintaining temperature is 105℃. It is suitable for common area, dangerous area and area with corrosion.

Performance Parameters:

Standard Color:	black, drab, orange
Temperature Range:	Max. Maintaining Temperature 105℃ Max. Surface Temperature 105℃ Max. Sustainable Temperature 135℃
Temperature for Mounting:	Min. -30℃
Thermal Stability:	1000 times of breaks and contacts for continual 22 days, the heating volume keeps more than 90%.
Bending Radius:	12.7mm for room temperature 20℃, 35.0mm for low temperature -30℃
nsulation Resistance:	Min. insulation resistance (between conductor and shield) should be 100MΩ after 1-minute test with D.C. 2500V instrument at the environment temperature of 75℃.
Working Voltage:	12V、24V、36V、110V、220V、380V、
Output Power at 10℃:	25、35、45、55、65、75W/m。

高温系列(GXW)

本产品专用于需间歇性高温蒸气吹扫(最高至215℃，30min)的工艺管线或容器储罐的防冻和恒温及局部加热，最高维持温度为135℃，伴热线适用于普通区、危险区和腐蚀区。

性能参数：

标准颜色:	棕色、蓝色、桔黄色、红色。
温度范围:	最高维持温度135℃ 最高表面温度为135℃ 最高承受温度155℃
施工温度:	最低-30℃
热稳定性:	通断1000次连续22天，热线发热量维持在95%以上。
绕曲半径:	20℃室温时为25.4mm,-30℃低温时为50.8mm.
绝缘电阻:	环境温度75℃时,用2500VDC摇表摇试验1分钟,绝缘电阻(导线与屏蔽间)最小值为100MΩ
工作电压:	12V、24V、36V、 110V、220V、380V。
10℃时输出功率:	25、35、45、55、65、75W/m。

H Temperature Series (GXW)

It is specially used to resist freezing and keep constant temperature or for partial heating for pipes or containers with demands of periodical heat vapor sweeping. (Max. 215℃, for 30 minutes) The summit maintaining temperature is 135℃. It is suitable for common zone, dangerous zone and corrosion zone.

Performance Parameters:

Standard Color:	brown, blue, orange, red
Temperature Range:	Summit Maintaining Temperature: 135℃ Summit Surface Temperature: 135℃ Summit Sustainable Temperature: 155℃
Temperature for Mounting:	bottom -30℃
Thermal Stability:	1000 times of break and contact for continual 22 days, heating volume keeps more than 95%
Bending Radius:	25.4mm for room temperature 20℃, 50.8mm for temperature -30℃
Insulation Resistance:	The Min. insulation resistance (between conductor and shield) should be 100MΩ after1-minute test with D.C. 2500V instrument at the environment temperature of 75℃.
Working Voltage:	12V、24V、36V、110V、220V、380V。
Output Power at 10℃:	25、35、45、55、65、75W/M。



特长系列(GXW)

本产品专用于长输管线的防的冻和恒温，最高维持温度为65、105、135℃ 。单一电源线路长度可达2000m（双向供电可达4000m）。伴热线适用于普通区、危险区和腐蚀区。

性能参数：

标准颜色：黑色
（电热带护层颜色：黑色、棕色、红色）。
温度范围：最高维持温度65 、105、135℃
最高表面温度70、105、135℃
最高承受温度105、135、155℃
施工温度：最低-30℃
电压等级：380-600VAC，3相4芯。

Special Long Series: (GXW)

It is specially used in long-distance transmission pipes to resist freezing and keep constant temperature. Max. maintaining temperature is 65℃,105℃, 135℃ respectively. The length of single power line reaches 2000 meters (4000 meters for that of power supply in double direction). It is suitable for common area, dangerous area, and area with corrosion.

Performance Parameters:

Standard Color: black (electric heating sheath color: black, brown, red)
Temperature Range: Max. Maintaining Temperature: 65, 105, 135℃
Max. Surface Temperature: 70,105, 135℃
Max. Sustainable Temperature: 105, 135, 155℃
Temperature for Mounting: Min. -30℃
Voltage Class: 380-600VAC, 3 phases and 4 cores

线路长度如表：Line Length Form

	单一电源 Single Power	单向供电 Single Direction Power Supply	双向供电 Double Direction Power Supply
380VAC	最小线路长度 Min. Line Length	305m	610m
	最大线路长度 Max. Line Length	1000m	2000m
600VAC	最小线路长度 Min. Line Length	1000m	2000m
	最大线路长度 Max. Line Length	2000m	4000m

主要技术参数 Technical Parameters

型号 Type	品名 Description	功率 W/m Power / 最高维持温度 ± 5℃ Summit Temperature Value ± 5℃	工作电压 Working Voltage 12V	24V	36V	110V	220V	380 -600V	最高承受 Max. Sustainable Temperature ℃	最低安装温度 Min. Temperature for Mounting ℃	最大使用长度 Max. Length in Usage m
DXW	低温系列 L. temperature series		5-15 / 60	5-25 / 60	10-25 / 60	10-35 / 70	15-45 / 70	15-45 / 70	105	-40	150
DXZW	低温窄系列 L. temperature Narrow series		5-15 / 50	5-25 / 50	10-25 / 50	10-35 / 70	10-35 / 70	10-35 / 70	105	-40	50
BXW	薄型系列 Thin series		3-10 / 50-70	3-15 / 50-70	3-20 / 50-70	5-25 / 50-70	5-25 / 70-105		105-135	-40	30
ZXW	中温系列 M.temperature series		5-15 / 70	5-25 / 90	10-35 / 90	25-45 / 105	40-60 / 105	40-60 / 105	135	-30	100
ZXZW	中温窄系列 M. temperature Narrow series		5-15 / 70	5-25 / 90	15-35 / 90	15-45 / 105	15-60 / 105	15-60 / 105	135	-30	50
ZXKW	中温宽系列 M. temperature Wide series					40-60 / 105	40-60 / 105	40-60 / 105	135	-30	150
GXW	高温系列 H. temperature series		10-25 / 135	10-30 / 135	10-40 / 135	25-70 / 135	35-70 / 135	35-70 / 135	155	-30	100
GXZW	高温窄系列 H. temperature Narrow series		10-25 / 135	10-30 / 135	10-40 / 135	25-50 / 135	25-50 / 135	35-70 / 135	155	-30	50
GXKW	高温宽系列 H. temperature Wide series					25-70 / 135	35-70 / 135	35-70 / 135	155	-30	150
TDXW	低温特长系列 L temperature & special long series						15-35 / 60	15-45 / 60	105	-20	300-2000
TZXW	中温特长系列 M temperature & special long series						15-60 / 90	15-60 / 90	135	-20	300-2000
TGXW	高温特长系列 H temperature & special long series						25-70 / 130	25-70 / 130	155	-20	300-2000



AF-125 氟塑料安装电线

AF-125 Fluoroplastics Installation Wire

本产品适用于耐低温导线、耐高温加热导线及阻燃耐老化导线也可用于空调机、微波炉、电子消毒柜、灯具灯饰等内部布线，建筑行业中可作为 500V 及以下的照明及动力机械的阻燃耐老化导线。

生产执行标准:
采用 Q/TK.DY.J.04.19-2001 标准

It is used as low temperature-resistant wire, heat-resistant heating wire, or flame-retardant & aging-resistant wire. It is used for inner wiring in air conditioner, microwave stove, electronic sterilizer, lightings, etc, or for lighting and engine of rated voltage 500V in construction industry.

Executive Standard:
as Q/TK.DY.J.04.19-2001

使用条件

1.电线导体最高温度为 125℃，最低环境温度为 -50
2.额定电压：300/500V。

Working Conditions:

1.Max. Conductor Working Temperature: 125℃. Min. Ambient Temperature: -50℃
2.Rated Voltage: 300/500V

技术特征

1.电线具有优良的耐腐蚀性能，几乎不溶于任何有机溶剂，可抗油、强酸、强碱、强氧化剂;
2.具有优良的电绝缘性能，耐高压、高频损耗小，不吸湿，绝缘电阻大;
3.具有优良的不燃、不老化性能，氧指数≥ 43，使用寿命长。

Technical Characters:

1.It has good corrosion-resistant character, and it is almost insoluble in any organic solvent. It is resistant to grease, strong acid, and strong alkali.
2.It has good electric insulation character, and is resistant to high voltage, with small H.F. loss, without absorbing moisture, and with high insulation resistance.
3.It has good performance of resisting fire and aging, oxygen index ⩾ 43, with long life expectancy.

技术参数 Technical Parameters

标称截面(mm^2) Nominal Cross Section Area	电线最大外径 (mm) Max. Wire Outer Diameter	载流量 (A) Current-loading Capacity	20℃导体最大电阻(Ω /km) Max. Conductor Resistance at 20℃
0.3	1.62	2.5	71.2
0.5	1.75	6	40.1
0.75	1.96	10	22.2
1.0	2.20	14	20.0
1.5	2.62	22	13.7
2.0	2.85	26	8.86
2.5	3.00	30	8.21
3.5	3.68	37	6.1
4.0	3.86	40	5.09
5.5	4.10	50	4.5
6.0	4.68	55	3.39
8.0	5.25	65	2.35
10.0	5.68	75	1.95
16.0	5.9	82	1.21

交 货 长 度

根据双方协议允许任何长度交货，计量误差允许不超过 ± 0.5%

Cable Length:

It depends on both agreements with length error allowance no more than ± 0.5%.

AF-170 氟塑料安装电线

AF-170 Fluoroplastics Installation Wire

本产品适用于耐低温导线、耐高温加热导线及阻燃耐老化导线也可用于空调机、微波炉、电子消毒柜、电子热水器、电暖器、电烤箱、电炒锅、灯具灯饰等内部布线。

It is used as low temperature-resistant wire, heat-resistant heating wire, or fire & aging resistant wire. It is also used as inner wires of household electrical apparatuses such as air conditioner, microwave stove, electronic sterilizer, electronic water heater, electrical heating machine, lightings, etc.

生产执行标准:
采用 Q/TK.TY.J.04.19-2001 标准

Executive Standard:
as Q/TK.TY.J.04.19-2001

使用条件

1.电线导体最高工作温度为 170℃，最低环境温度为 -60℃

2.额定电压：300/500V

Working Conditions:

1.The highes working temperature of conductor is 170℃, and the lowest environment temperature is -60℃.

2.Rated Voltage: 300/500V

技术特征

1.电线具有优良的耐腐蚀性能，几乎不溶于任何有机溶剂，可抗油、强酸、强碱、强氧化剂;

2.具有优良的电绝比性能，耐高压、高频损耗小，不吸湿，绝缘电阻大;

3.具有优良的不燃、不老化性能，氧指数≥ 60，使用寿命长。

Technical Characters:

1.It has good corrosion-resistant character, and it is almost insoluble in any organic solvent. It is resistant to grease, strong acid, and strong alkali.

2.It has good electric insulation character, and is resistant to high voltage, with small H.F. loss, without absorbing moisture, and with high insulation resistance.

3.It has good performance of resisting fire and aging, oxygen index ⩾ 60, with long life expectancy.

技术参数 Technical Parameters

标称截面(mm^2) Nominal Cross Section Area	电线最大外径(mm) Max. Wire Outer Diameter	载流量 (A) Current-loading Capacity	20℃导体最大电阻 (Ω/km) Max. Conductor Resistance at 20℃
0.3	1.68	2.5	71.2
0.5	1.80	6	40.1
0.75	2.00	10	22.2
1.0	2.25	14	20.0
1.5	2.68	22	13.7
2.0	2.89	26	8.86
2.5	3.10	30	8.21
3.5	3.75	37	6.1
4.0	3.96	40	5.09
5.5	4.15	50	4.5
6.0	4.69	55	3.39

交货长度

根据双方协议允许任何长度交货，计量误差允许不超过 ± 0.5%

Cable Length:

It depends on both agreements with length error allowance no more than ± 0.5%.



AF-200.AF-260 氟塑料安装电线

AF-200.AF-260 Fluoroplastics Installation Wire

本产品适用在高、低温及各种恶劣环境中，供电器、仪表、用电设备作安装连接线。

It is used as installation wire for electrical appliances, instruments, power equipments under extreme temperature or other bad environment.

生产执行标准:
采用 Q/TK.TY.J.04.19-2001 标准及 GJB773 标准

Executive Standard:
as Q/TK.TY.J.04.19-2001 & GJB773

使用条件

1.电线导体最高工作温度为 200℃和 260℃，最低环境温度为 -60℃

2.额定电压：300/500V

Working Conditions:

1.The highest working temperature of conductor is 200℃, and the lowest environment temperature is -60℃.

2.Rated Voltage: 300/500V

技术特性

1.电线具有优良的耐腐蚀性能，几乎不溶于任何有机溶剂，可抗油、强酸、强碱、强氧化剂;

2.具有优良的电绝缘性能，耐高压、高频损耗小，不吸湿，绝缘电阻大;

3.具有优良的不燃、耐老化性能，氧指数≥ 70，使用寿命长;

4.也可向用户提供屏蔽型安装线

Technical Characters:

1.It has good corrosion-resistant character, and it is almost insoluble in any organic solvent. It is resistant to grease, strong acid, and strong alkali.

2.It has good electric insulation character, and is resistant to high voltage, with small H.F. loss, without absorbing moisture, and with high insulation resistance.

3.It has good performance of resisting fire and aging, oxygen index ⩾ 70, with long life expectancy.

技术参数 Technical Parameters

标称截面 (mm^2) Nominal Cross Section Area	电线最大外径 (mm) Max. Wire Outer Diameter	载流量 (A) Current-loading Capacity	20℃导体最大电阻(Ω/km) Max. Conductor Resistance at 20℃
0.3	1.68	2.5	71.2
0.5	1.80	6	40.1
0.75	2.00	10	22.2
1.0	2.25	14	20.0
1.5	2.68	22	13.7
2.0	2.89	26	8.86
2.5	3.10	30	8.21
3.5	3.75	37	6.1
4.0	3.96	40	5.09
5.5	4.15	50	4.5
6.0	4.69	55	3.39
8.0	5.15	65	2.35
10.0	5.58	75	1.95
16.0	5.86	82	1.21

交货长度

根据双方协议允许任何长度交货，计量误差允许不超过 ± 0.5%。

Cable Length:

It depends on both agreements with length error allowance of no more than ± 0.5%.

丁腈聚氯乙烯复合物电缆(电线)

Butadiene PVC Compound Cable (Wire)

本产品适用于交流额定电压450/750V及以下控制、监控回路、各种移动电器、无线电设备和照明灯座接线用以及保护线路等要求在低温下运行的场合。

生产执行标准:
Q/TK.TY.J.04.14-2000 标准及 JB1170-75 标准

It is used for supervision and control return circuit of A.C. rated voltage of 450/750V or lower, power connection of various mobile electrical equipments, radio devices, and lightening, and protection line with operation under low temperature.

Executive Standard:
as GBQ/TK.TY.J.04.14-2000 and JB1170-75

使用条件

1.电线导体长期工作温度: 交联聚乙烯绝缘不超过90℃; 聚氯乙烯绝缘不超过70℃

2.电线最低使用环境温度为-40℃

3.允许弯曲半径一般应不小于电缆外径的8倍, 软结构电缆应不小于电缆外径的6倍。

Working Conditions:

1.The long-term working temperature of conductor should be no higher than 90℃ for cable with XLPE insulation, 70℃ for that with PVC insulation.

2.Min. Environment Temperature: -40℃

3.Allowed bending radius should be no less than 8 times that of cable outer diameter, or 6 times for soft structure cable.

电缆型号 Cable Types:

序号 No.	型号 Type	电缆名称 Description	敷设方法 Installation
1	RDD	铜芯丁腈复合物绝缘丁腈复合物护套软线 Sot wire with Cu core, butadiene compound insulation & sheath	移动场合 Mobile
2	RDS	铜芯丁腈复合物绝缘双绞型软线 Double stranded soft wire with Cu core, butadiene compound insulation	移动场合 Mobile
3	RDDP	铜芯丁腈复合物绝缘丁腈复合物护套铜丝编织屏蔽软电线 Soft wire with Cu core, butadiene compound insulation & sheath, Cu wire braided shielding	移动场合 Mobile
4	KDD	铜芯丁腈复合物绝缘丁腈复合物护套控制电缆 Control cable with Cu core, butadiene compound insulation & sheath	固定场合 Fixed
5	KYJD	铜芯交联聚乙烯绝缘丁腈复合物护套控制电缆 Control cable with Cu core, XLPE insulation, butadiene compound sheath	固定场合 Fixed
6	KYJDP	铜芯交联聚乙烯绝缘铜丝编织屏蔽丁腈复合物护套控制电缆 Control cable with Cu core, XLPE insulation, Cu wire braided shielding, butadiene compound sheath	固定场合 Fixed
7	KYJDR	铜芯交联聚乙烯绝缘丁腈复合物护套控制软电缆 Soft control cable with Cu core, XLPE insulation, butadiene compound sheath	移动场合 Mobile
8	KYJDRP	铜芯交联聚乙烯绝缘铜丝编织屏蔽丁腈复合物护套控制软电缆 Soft control cable with Cu core, XLPE insulation, Cu wire braided shielding, butadiene compound sheath	移动场合 Mobile



技术指标 Technical Parameters:

标称截面 (mm^2) Nominal Cross Section Area	导体结构根数 / 直径 (mm) Conductor Structure Pieces/ Diameter	20℃导体电阻(Ω/km) Conductor Resistance at 20℃	
		不镀锡 Non-tinned	镀锡 tinned
0.3	16/0.15	69.2	71.2
0.4	23/0.15	48.2	49.6
0.5	1/0.80	36.0	36.7
	16/0.20	39.0	40.1
0.75	1/0.97	24.5	24.8
	7/0.37	24.5	24.8
	24/0.20	26.0	26.7
1.0	1/1.13	18.1	18.2
	7/0.43	18.1	18.2
	32/0.20	19.5	20.0
1.5	1/1.38	12.1	12.2
	7/0.52	12.	12.2
	30/0.25	13.3	13.7
2.5	1/1.78	7.41	7.56
	7/0.68	7.41	7.56
	19/0.41	7.41	7.56
	49/0.26	7.98	8.21
4	1/2.25	4.61	4.70
	7/0.85	4.61	4.70
	19/0.52	4.61	4.70
	56/0.30	4.95	5.09
6	1/2.76	3.08	3.11
	7/1.04	3.08	3.11
	19/0.64	3.08	3.11
	84/0.30	3.30	3.39
10	7/1.35	1.83	1.84
	49/0.52	1.83	1.84
	84/0.40	1.91	1.95

交货长度

1.成圈长度为 100m，成盘长度应不小于 100m。

2.24 芯及以下：允许长度应不小于 20m 的短段电缆交货，其数量应不超过交货总长度的 5%。

3.24 芯以上：允许长度不小于 20m 的短段电缆交货，其数量则不超过交货总长度的 10%。

4.允许根据双方协议长度交货。

Cable Length:

1.The length of each cable in coil is 100 meters, and that for cable on drum should be no shorter than 100 meters.

2.Pieces of the cable with 24 cores or less no shorter than 20 meters each are allowed for delivery, which accounts no more than 5% of the total length.

3.Pieces of the cable with more than 24 cores no less than 20 meters each are allowed for delivery, which accounts no more than 10% of the total length.

4.It depends on both agreements.

承荷探测电缆

Load-bearing Propection Cable

本产品适用于承受机械负荷进行电气测量的钢丝铠装油矿探测电缆，这类电缆用于各类油、气井的测井，射孔，取芯作业；也可用于海洋调查，河流、港湾、水利、水文测量，煤田地质勘测，地热测井等方面。作为挂重仪器测量用连接线。

It could sustain mechanical loading with steel wire armor for electric oil prospecting. It is used as connection cable for load-bearing measuring instrument for hydrologic survey, coalmine prospecting, geological prospecting, etc.

生产执行标准:
JB/T3302-1999

Executive Standard:
as JB/T3302-1999

型号名称　Type & Descriptions

表1　Form 1

型号　Type	名称　Description
W7B	7 芯乙烯丙烯共聚物或改性聚丙烯绝缘双钢丝铠装 承荷探测电缆 Load-bearing prospecting cable with 7 cores, EP polymer or modified PP insulation & double steel wire armor
W7BP	7 芯乙烯丙烯共聚物或改性聚丙烯绝缘总屏蔽双钢丝铠装承荷探测电缆 Load-bearing prospecting cable with 7 cores, EP polymer or modified PP insulation, general shielding & double steel wire armor
W7BPP	7 芯乙烯丙烯共聚物或改性聚丙烯绝缘分相屏蔽总屏蔽、双钢丝铠装承荷探测电缆 Load-bearing prospecting cable with 7 cores, EP polymer or modified PP insulation, separate & general shieldings & double steel wire armor
W7F46	7 芯聚全氟乙丙烯绝缘双钢丝铠装承荷探测电缆 Load-bearing prospecting cable with 7cores, polyfluoroethyene insulation & double steel wire armor
W7F46P	7 芯聚全氟乙丙烯绝缘总屏蔽双钢丝铠装承荷探测电缆 Load-bearing prospecting cable with 7cores, polyfluoroethyene insulation, general shielding & double steel wire armor
W7F46PP	7 芯聚全氟乙丙烯绝缘分相屏蔽双钢丝铠装承荷探测电缆 Load-bearing prospecting cable with 7cores, polyfluoroethyene insulation, general & individual shielding, double steel wire armor

使用性能　Working Performance:

1.电缆允许使用温度范围如表 2

绞车滚筒直径应不小于400mm，井口滑轮，天滑轮，地滑轮的弯曲半径应不小于 230mm，滑轮槽应与电缆外径相适应。

1.Allowed Working Temperature Range: see the Form

The diameter of winch roll should be no less than 400mm. The bending radius of wellhead pulley, aerial pulley, and ground pulley should be no less than 230mm. The pulley groove should suit well with cable outer diameter.

表2　Form 2

型号 Type	使用温度范围　Working Temperature Range (℃)	
	不低于 No lower than	短期（一次停留不超过 2 小时） Short term (no longer than 2 hours for once)
W7B	-40	90
W7BP	-30	150
W7BPP	-30	150
W7F46	-50	232
W7F46P	-50	232
W7F46PP	-50	232



电缆的芯数、截面、额定拉断力、标称制造长度见表 3
电缆线芯直流电阻不大于 36 Ω /Km ； 线芯间，线芯与铠装间经受交流 50HZ 1000V 电压试验 1 分钟不击穿。

Type, Core Number, Cross-section Area & Nominal Length: see Form 3.
The D.C. conductor resistance should be no more than 36Ω/Km; It could endure voltage test of A.C. 50Hz, 1000V for 5 minutes without puncture between conductor and armor.

表 3 Form 3

型号 Type	芯数 Core Number	计算截面 Calculated Cross-section Area (mm^2)	额定拉断力 Rated Splitting Force (KN)	标称制造长度 Nominal Length (m)						
W7B	7	0.56	44	--	--	--	5500	4200	3500	2200
W7BP	7	0.56	59	--	--	--	5500	4200	3500	2200
W7BPP	7	0.56	59	--	--	--	5500	4200	3500	
W7F46	7	0.56	69	8000	7500	6500	5500	4200	3500	2200
W7F46P	7	0.56	69	8000	7500	6500	5500	4200	3500	2200
W7F46PP	7	0.56	69	8000	7500	6500	5500	4200	3500	2200