



硅橡胶绝缘电力电缆 Silicon rubber insulated power cable

产品用途

本产品适用于交流额定电压0.6/1kV及以下高污染环境下动力传输或移动电缆之间连接电缆，产品具有耐高耐低温、耐酸碱及腐蚀性气体、抗机械应力等特性，广泛用于冶金、电力、石化、电子、汽车等行业。

使用特性

1. 额定电压U_{0/U}为0.6/1kV。
2. 电缆导体的长期允许工作温度为180℃。
3. 电缆的敷设温度不应低于-25℃，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；有铠装或钢丝屏蔽结构的电缆，应不小于电缆外径的12倍；有屏蔽层结构的电缆，应不小于电缆外径的10倍。

Application

This product applies for power transmission under the environment of high temperature or cable between movable electrical instruments of rated voltage up to and including 0.6/1kV. The product has the characteristics of high temperature and low temperature resistant, acid and alkali resistant, corrosive gas resistant, flexible structure and so on. It is widely used in metallurgy, electric power, petrochemical, electronics and automobile industry etc.

Service property

1. Rated voltage(U_{0/U})of the cable should be 0.6/1kV.
2. Allowed long-term operating temperature of cable conductor should be 180°C.
3. Cable laying temperature should be not less than -25°C. Recommended allowable bending radius for non-armored cable should be not less than 6 times outer diameter of the cable. For armored or copper tape shielded structure cable should be not less than 12 times outer diameter of the cable. For flexible cable with shielded structure should be not less than 6 times outer diameter of the cable.

基本型号及名称 Type and description

型号 Type	名称 Description
YGG, YGC	硅橡胶绝缘硅橡胶护套电力电缆 Silicon rubber insulated and sheathed power cable
YGGR, YGCR	硅橡胶绝缘硅橡胶护套电力软电缆 Silicon rubber insulated and sheathed flexible power cable
YGGP, YGCP	硅橡胶绝缘硅橡胶护套铜丝屏蔽屏蔽电力电缆 Silicon rubber insulated and sheathed copper wire braided shielded power cable
YGG24, YGC24	硅橡胶绝缘硅橡胶护套铜丝屏蔽铠装电力电缆 Silicon rubber insulated and sheathed steel tape armored power cable
YGG34, YGC34	硅橡胶绝缘硅橡胶护套铜丝屏蔽铠装电力电缆 Silicon rubber insulated and sheathed steel wire armored power cable
YGV	硅橡胶绝缘聚氯乙烯护套电力电缆 Silicon rubber insulated PVC sheathed power cable
YGVP	硅橡胶绝缘聚氯乙烯护套铜丝屏蔽屏蔽电力电缆 Silicon rubber insulated PVC sheathed copper wire braided shielded power cable
YGV22	硅橡胶绝缘聚氯乙烯护套铠装电力电缆 Silicon rubber insulated PVC sheathed steel tape armored power cable
YGV32	硅橡胶绝缘聚氯乙烯护套铠装电力电缆 Silicon rubber insulated PVC sheathed steel wire armored power cable

注：表中未列型号按下列型号说明组成。
Note: The type not listed in the table should be comprised according to following type explanation

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代号名称和含义 Code and meaning

项目 Item	代号 Code	说明 Description
系列代号 Series coding	Y	移动软电缆 Movable flexible cable
	Z(A/B/C)	阻燃A(B/C)级 Flame retardant grade (A/B/C)
燃烧特性 Burning characteristic	W	耐火 Fire resistant
	WDZ	低烟无卤阻燃型 Low smoke halogen free flame retardant
	WDZN	低烟无卤阻燃型 A Low smoke halogen free flame retardant fire resistant
绝缘 Insulation	G	硅橡胶绝缘 Silicon rubber insulation
导体 Conductor	R	第5种铜导体 Class 5 copper conductor
	L	铝导体 Aluminum conductor
屏蔽 Shield	P	铜丝屏蔽层 Copper wire braided shield
	PP	铜带屏蔽层 Copper tape shield
	PS	塑料复合屏蔽层 Al/plastic composite shield
护套 Sheath	V	聚氯乙烯护套 PVC sheath
	VP	丁腈复合护套 NBR sheath
	G, C	硅橡胶护套 Silicon rubber sheath
	Z	镀锌钢带 Steel tape armor
	2	铜丝铠装 Steel wire armor
	3	铜带铠装 Steel tape armor
	4	非磁性金属铠装 Non-magnetic tape armor
	7 ^a	非磁性金属铠装 Non-magnetic wire armor
	2 ^b	聚苯乙烯护套 PVC outer sheath, NBR outer sheath
外护套 Outer sheath	Z	硅橡胶护套 Silicon rubber outer sheath

- a: 非磁性铠装用不锈钢带、铝带等，用于单芯电缆金属铠装，用户不指明时交流系统采用不锈钢带。
b: Non-magnetic tape has stainless steel tape, aluminum tape and so on, metal tape armor used for single-core cable, when user does not specify, in ac system adopt stainless steel wire.
- 主要技术指标 Main technical index**
1. 20℃时导体直流电阻符合GB/T3956规定；
 2. 20℃时绝缘电阻不小于30MΩ·km；
 3. 电缆经受交流3.6kV/5min电压试验不击穿。

基本电缆规格和结构参数 Cable specification and structural parameter

芯数×标称截面 (mm ²) Number of cores x nominal cross section area	电缆参考外径 (mm) Cable reference diameter	电缆参考重量 (kg/km) Cable reference weight	芯数×标称截面 (mm ²) Number of cores x nominal cross section area	电缆参考外径 (mm) Cable reference diameter	电缆参考重量 (kg/km) Cable reference weight				
1×1.5	6.2	10.6	51	176	1×25	14.0	18.0	365	596
1×2.5	6.6	11.0	62	194	1×35	15.0	19.0	459	705
1×4	7.6	12.0	88	236	1×50	17.4	21.4	642	915
1×6	8.7	12.9	116	277	1×70	19.6	23.6	841	1116
1×10	10.6	15.0	182	377	1×95	22.0	26.0	1108	1460
1×16	11.9	16.1	249	456	1×120	24.6	28.6	1380	1762



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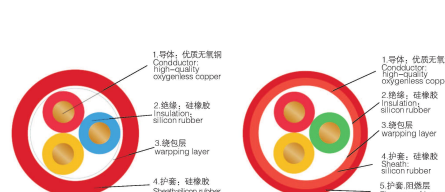
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1×150	26.7	30.8	1695	2112	4×4	14.9	18.7	340	571
1×185	28.7	33.0	2053	2513	4×6	17.3	20.9	464	711
1×240	32.5	37.2	2642	3194	4×10	22.1	26.3	753	1103
1×300	36.3	40.8	3223	3819	4×16	25.1	29.2	1051	1423
2×1.5	10.2	13.8	129	286	4×25	32.1	34.9	1566	2257
2×2.5	11.0	14.6	158	326	4×35	32.7	37.5	1986	2516
2×4	13.0	16.6	225	421	4×50	38.4	43.4	2794	3428
2×6	14.8	18.4	294	516	4×70	43.7	49.8	3679	4876
2×10	18.8	22.8	470	753	4×95	49.6	55.8	4877	6236
2×16	21.2	25.2	631	948	4×120	55.8	61.9	6060	7567
2×25	25.4	29.4	943	1315	4×150	60.7	67.7	7432	9208
2×35	27.6	31.9	1180	1598	4×185	65.7	72.7	9029	10939
2×50	32.4	37.1	1651	2172	4×240	75.0	82.0	11684	13882
2×70	36.6	41.5	2143	2745	4×300	83.8	91.0	14271	16723
2×95	41.6	46.3	2831	3488	5×1.5	12.4	16.0	214	401
2×120	46.6	52.7	3499	4776	5×2.5	13.5	17.1	274	477
2×150	50.8	56.9	4276	5690	5×4	15.4	20.0	415	658
2×185	54.9	60.9	5146	6834	5×6	19.1	22.7	567	838
2×240	62.6	69.5	6665	8487	5×10	24.4	28.7	935	1311
2×300	70.0	76.9	8162	10167	5×16	27.8	32.2	1293	1717
3×1.5	10.7	14.3	153	316	5×25	33.3	38.1	1926	2464
3×2.5	11.6	15.2	192	368	5×35	36.4	41.2	2464	3047
3×4	13.7	17.3	277	483	5×50	42.7	49.0	3465	4654
3×6	15.6	19.4	368	608	5×70	48.5	54.8	4556	5985
3×10	20.1	24.2	602	906	5×95	55.1	61.9	6245	7543
3×16	22.7	26.7	829	1164	5×120	61.9	69.2	7504	9355
3×25	27.0	31.5	1216	1640	5×150	67.7	74.7	9250	11217
3×35	29.6	34.3	1555	2035	5×185	73.1	80.2	11219	13344
3×50	34.7	39.4	2183	2737	5×240	83.7	91.5	14563	17142
3×70	39.2	44.1	2948	3488	5×300	93.4	101.3	17768	20548
3×95	44.5	50.7	3773	4501	3×2.5×1×1.5	12.2	15.8	218	402
3×120	49.9	56.2	4669	6054	3×4×1×2.5	14.3	17.9	312	527
3×150	54.8	60.7	5754	7231	3×6×1×4	16.7	20.3	433	680
3×185	59.9	65.8	6956	8672	3×10×1×6	20.9	24.9	679	989
3×240	67.2	74.2	9000	10956	3×16×1×10	24.3	28.5	974	1344
3×300	75.2	82.1	11009	13173	3×25×1×16	28.8	33.3	1428	1877
4×1.5	11.5	15.1	162	357	3×35×1×16	30.8	35.8	1744	2262
4×2.5	12.5	16.1	231	420	3×50×1×25	36.3	41.3	2476	3078

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3×70×1×35	40.9	45.9	3238	3909	3×100×2×70	55.6	62.8	6301	7838
3×95×1×50	46.8	53.0	4343	5628	3×150×2×70	60.1	67.1	7322	9080
3×120×1×70	52.8	59.0	5451	6891	3×185×2×95	65.9	73.0	8098	11026
3×150×1×70	56.4	62.6	6451	7964	3×240×2×120	75.0	82.0	11661	13830
3×185×1×95	61.6	69.6	7240	9748	3×300×2×150	83.1	90.2	11253	16556
3×240×1×120	70.2	77.2	10232	12268	4×16×1×10	27.0	31.0	312	461
3×300×1×150	78.1	85.1	12508	14760	4×25×1×16	32.1	37.1	4789	6326
3×4×2×2.5	15.1	18.9	383	587	4×35×1×16	34.6	39.5	5217	6780
3×6×2×4	17.9	21.7	500	765	4×50×1×25	40.8	45.8	5145	6815
3×10×2×6	22.3	26.3	769	1120	4×70×1×25	46.1	52.3	6122	8380
3×16×2×10	26.4	30.8	1145	1552	4×95×1×50	52.6	59.8	6811	8945
3×25×2×16	31.0	35.9	1664	2173	4×120×1×70	59.3	66.5	8002	8669
3×35×2×16	32.8	37.7	1876	2511	4×150×1×70	64.0	71.0	8291	10155
3×50×2×25	38.9	43.9	2830	3471	4×185×1×95	69.4	76.5	10135	12159
3×70×2×35	43.6	49.8	3859	4884	4×240×1×120	79.3	86.3	13095	15378
3×95×2×50	50.1	56.4	4986	6365	4×300×1×150	88.3	96.1	15969	18715

产品结构示意图 Structure diagram



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