



BEIJING HUAYUAN GAOKE CABLE CO.,LTD.
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Silicon Rubber Insulated Power Cable

■ Introduction and Application

This product is suitable for as connection cable of fixed laying down power transmission line or movable electric equipment with 0.6/1kv of AC rated voltage or below. It features heat radiation resistant, cold resistant, acid and alkali resistant, corrosive gases resistant, waterproof and so on, flexible cable structure, constant electric performance at the environment of high temperature (high and cold), outstanding anti-ageing performance, long life.. It is wide used for many industries such as metallurgy, electric power, petrochemical, electronic and automobile manufacturing, etc.

■ Product standard: Enterprise standard

The test of fire retardant and fireproof characteristic should be carried out in accordance with GB/T18380.3-2001, GB/T19216.21-2003.

■ Operating characteristics

- 1、 The rated voltage: U_0/U 0.6/1kv
 Max. operating temperature: 180°C
 Min. ambient temperature: -60°C
- 2、 Laying temperature of cable not less than -25°C
- 3、 Permissible bending radius of cable: Min. 10 times of diameter

■ Specifications and Names

Type	Designation
YGC	Silicon rubber insulated and sheathed power cable
YGCR	Silicon rubber insulated and sheathed movable flexible power cable
YGCP	Silicon rubber insulated and sheathed copper wire screened power cable
YGC22	Silicon rubber insulated and sheathed steel tape armored power cable
YGG	Silicon rubber insulated and sheathed installation line
YGGR	Silicon rubber insulated and sheathed movable installation line
YGGP	Silicon rubber insulated and sheathed copper wire braided screened installation line
YHXG	Silicon rubber insulated wire for leading electric motor



Remarks: if in front of type of fire retardant silicon rubber cable adds ZR, if in front of type of flame retardant silicon rubber cable adds ZR, copper wire in conductor line core may be tin electroplating.

■ Specifications and Names

Code name	The meaning of the code name
Y	Serial code (the movable flexible power cable)
G	Silicon rubber
C	High
22	Steel tape armored
P	Copper braided screened

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R	Multiply intertwisted conductor
J	Wire for leading electric motor

■ Main performance

1. DC resistance of finished cable conformity with GB/T3956.
2. Insulation resistance is not less than 100MΩ·km at 20°C. .
3. Cable withstands the test of AC 50Hz 3.5kV for 5 min, without breakdown.

■ Specifications and reference data

Nom. area Cross-Section area mm ²	Structure of conductor (B/R) mm	Outer Diameter mm		Weight kg/km	
		YGC YGG	YGCR YGGFR	YGCR YGGFR	YGC22 JGG22
1×1.5	19×0.32/48×0.20	3.2	3.5	27	—
1×2.5	19×0.41/51×0.25	3.7	3.9	38	—
1×4	19×0.52/82×0.25	4.6	5.2	55	—
1×6	19×0.65/123×0.25	5.6	6.5	77	—
1×10	48×0.52/204×0.25	7.2	7.8	132	—
1×16	75×0.52/323×0.25	8.2	9.0	188	—
1×25	108×0.52/513×0.25	10.2	11.0	312	—
1×35	108×0.65/722×0.25	11.2	12.0	408	—
1×50	10×2.52/1026×0.25	13.5	14.5	554	—
1×70	19×2.16/1406×0.25	16.5	17.5	762	—
1×95	19×2.52/486×0.50	19.0	20.5	1045	—
1×120	24×2.52/608×0.50	20.0	22.0	1281	—
1×150	30×2.52/760×0.50	21.0	24.2	1612	—
1×185	37×2.52/945×0.50	25.0	28.0	1981	—
2×2.5	7×0.68/51×0.25	10.5	11.2	158	272
2×4	19×0.52/82×0.25	12.0	13.2	210	347
2×6	19×0.65/123×0.25	14.0	15.3	263	407
2×10	7×1.37/204×0.25	17.8	18.9	394	562
2×16	7×1.70/323×0.25	20.0	21.2	540	724
2×25	7×2.15/513×0.25	23.0	24.5	794	828
2×35	7×2.52/722×0.25	25.7	26.3	1037	1037
2×50	10×2.52/1026×0.25	26.0	27.5	1236	1385
2×70	19×2.16/1406×0.25	27.0	28.9	1647	1792
2×95	19×2.52/486×0.50	32.0	33.9	2198	2654
2×120	24×2.52/608×0.50	45.0	48.0	2640	3180
2×150	30×2.52/760×0.50	52.0	57.0	3280	3920
2×185	37×2.52/945×0.50	60.0	65.0	4006	4768
3×1.5	7×0.52/48×0.20	9.7	10.7	150	291

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3×2.5	7×0.68/51×0.25	11.7	12.2	196	342
3×4	19×0.52/82×0.25	12.6	13.5	274	444
3×6	19×0.65/123×0.25	14.8	16.2	350	531
3×10	7×1.37/204×0.25	20.0	22.0	539	737
3×16	7×1.70/323×0.25	22.0	24.5	740	972
3×25	7×2.15/513×0.25	25.3	27.0	1139	1372
3×35	7×2.52/722×0.25	28.0	31.5	1480	1729
3×50	10×2.52/1026×0.25	32.0	37.5	1900	2405
3×70	19×2.16/1406×0.25	41.0	50.0	4061	3087
3×95	19×2.52/486×0.50	45.0	55.0	997	4003
3×120	24×2.52/608×0.50	50.0	60.0	4060	4887
3×150	30×2.52/760×0.50	60.0	65.0	5197	2995
3×185	37×2.52/945×0.50	65.0	70.0	6279	7262
3×4+1×2.5	19×0.52/82×0.25	14.5	15.5	320	481
3×6+1×4	19×0.65/123×0.25	16.2	17.8	423	597
3×10+1×6	7×1.37/204×0.25	21.0	23.0	630	827
3×16+1×10	7×1.70/323×0.25	23.0	25.0	888	1255
3×25+1×16	7×2.15/513×0.25	27.0	29.0	1375	1578
3×35+1×16	7×2.52/722×0.25	32.3	35.0	1690	1927
3×50+1×25	10×2.52/1026×0.25	36.0	40.0	2175	2760
3×70+1×35	19×2.16/1406×0.25	40.0	44.0	2950	3546
3×95+1×50	19×2.52/486×0.50	46.0	52.0	3950	4670
3×120+1×70	24×2.52/608×0.50	51.0	55.0	4800	5745
3×150+1×70	30×2.52/760×0.50	56.0	60.0	5810	6862
3×185+1×95	37×2.52/945×0.50	66.0	70.0	7200	8394
4×4	19×0.52/82×0.25	14.2	16.2	352	515
4×6	19×0.65/123×0.25	17.1	19.0	450	629
4×10	7×1.37/204×0.25	22.1	24.0	672	881
4×16	7×1.70/323×0.25	24.5	26.5	952	1176
4×25	7×2.15/513×0.25	27.0	31.5	1476	1673
4×35	7×2.52/722×0.25	33.0	35.5	1876	2142
4×50	10×2.52/1026×0.25	39.0	41.0	2392	2982
4×70	19×2.16/1406×0.25	41.0	44.0	3300	3871
4×95	19×2.52/486×0.50	47.0	50.0	4300	5094
4×120	24×2.52/608×0.50	49.0	54.0	5380	6187
4×150	30×2.52/760×0.50	56.0	60.0	6750	7598
4×185	37×2.52/945×0.50	68.0	72.0	8190	9194

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■ Construction

1. Conductor
2. Insulation (silicon rubber)
3. Filler
4. Tape
5. Sheath (silicon rubber)
6. Fire-retardant Outer Sheath

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