

# 180°C JG SILICON RUBBER INSULATED WIRE



## APPLICATION

Suitable for high voltage cabinets, power systems, high-voltage motors, television receivers, transformers, and internal high-voltage connecting wires for electronic instruments and meters, etc.

## Technical data

Conductor: bare copper or tinned copper

Insulation: Silicon rubber

Temperature Range: -60°C~180°C

Rated Voltage: 500V, 1000V



Conductor		Nominal Insulation Thickness ( mm )		Nominal outer diameter ( mm )		20 °C Maximum conductor resistance (Ω/km)
Nominal section mm2 (mm2)	Number/strand Diameter (mm)	500V	1000V	500V	1000V	
0.5	28/0.15	1	1.2	2.9	3.3	40.1
0.75	24/0.20	1	1.2	3.2	3.6	26.7
1	32/0.20	1	1.2	3.3	3.7	20
1.5	48/0.20	1	1.2	3.6	4	13.7
2	40/0.25	1	1.2	3.9	4.3	9.9

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Conductor		Nominal Insulation Thickness ( mm )		Nominal outer diameter ( mm )		20 °C Maximum conductor resistance (Ω/km)
Nominal section mm2 (mm2)	Number/strand Diameter (mm)	500V	1000V	500V	1000V	
2.5	49/0.25	1	1.2	4	4.4	8.21
4	56/0.30	1.2	1.4	5.2	5.6	5.09
6	84/0.30	1.2	1.5	6	6.6	3.39
10	84/0.40	1.4	1.6	7.4	7.8	1.95
16	126/0.40	1.4	1.6	8.6	9	1.24
25	196/0.40	1.6	1.8	10.8	11.2	0.795
35	494/0.30	1.8	2	12.4	12.8	0.565
50	396/0.40	2	2.2	14.6	15	0.393
70	551/0.40	2	2.2	16.8	17.2	0.277
95	760/0.40	2.2	2.5	19.2	19.8	0.21
120	608/0.50	2.2	2.5	21	21.5	0.164
150	760/0.50	2.4	2.6	23	23.4	0.132
185	925/0.50	2.4	2.6	24.8	25.2	0.108
240	1221/0.50	2.6	2.8	28.2	28.6	0.0817

Note: Other specifications of wires could be customized according to your requirements.

# 180°C JGG SILICON RUBBER INSULATED WIRE



## APPLICATION

Suitable for High voltage cabinets, power systems, high-voltage motors, television receivers, transformers, and internal high-voltage connecting wires for electronic instruments and meters, etc.

## Technical data

Conductor: bare copper or tinned copper

Insulation: Silicon rubber

Temperature Range: -60°C~180°C

Rated Voltage: 3000V, 6000V, 10000V



Conductor		Nominal Insulation Thickness ( mm )			Nominal outer diameter ( mm )			20 °C Maximum conductor resistance (Ω/km)
Nominal section (mm <sup>2</sup> )	Number/strand Diameter (mm)	3000V	6000V	10000V	3000V	6000V	10000V	
0.5	28/0.15	2	2.5	3.6	4.9	5.9	8.1	40.1
0.75	24/0.20	2	2.5	3.6	5.2	6.2	8.4	26.7
1	32/0.20	2	2.5	3.6	5.3	6.3	8.5	20
1.5	48/0.20	2.2	2.8	3.8	6	7.2	9.2	13.7
2	40/0.25	2.2	2.8	3.8	6.3	7.5	9.5	9.9
2.5	49/0.25	2.4	3	4	6.8	8	10	8.21
4	56/0.30	2.4	3	4	7.6	8.8	10.8	5.09

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Conductor		Nominal Insulation Thickness ( mm )			Nominal outer diameter ( mm )			20 °C Maximum conductor resistance (Ω/km)
Nominal section (mm <sup>2</sup> )	Number/strand Diameter (mm)	3000V	6000V	10000V	3000V	6000V	10000V	
6	84/0.30	2.6	3.2	4.2	8.8	10	12	3.39
10	84/0.40	2.6	3.2	4.2	9.8	11	13	1.95
16	126/0.40	2.8	3.5	4.5	11.4	12.8	14.8	1.24
25	196/0.40	2.8	3.5	4.5	13.2	14.6	16.6	0.795
35	494/0.30	2.8	3.7	4.8	14.4	16.2	18.5	0.565
50	396/0.40	3	3.7	4.8	16.6	18	20.2	0.393
70	551/0.40	3	3.9	5	18.8	20.6	22.8	0.277
95	760/0.40	3.2	3.9	5	21.2	22.6	24.8	0.21
120	608/0.50	3.2	4.2	5.5	23	25	27.5	0.164
150	760/0.50	3.5	4.5	5.5	25.2	27.2	29.2	0.132
185	925/0.50	3.5	4.8	5.7	27	29.6	31.5	0.108
240	1221/0.50	3.5	5.2	6	30	33.4	35	0.0817

Note: Other specifications of wires could be customized according to your requirements.

# 180°C AG SILICON RUBBER INSULATED WIRE



## APPLICATION

Suitable for various motors, electronic ceramics, heating components, car lights, lighting fixtures, ballasts etc

## Technical data

Conductor: silver plated copper, nickel plated copper or tinned copper

Insulation: Silicon rubber

Temperature Range: -60°C~180°C

Rated Voltage: 300/500V



Nominal section (mm <sup>2</sup> )	Number/strand Diameter (mm)	Insulation thickness (mm)	Nominal outer diameter (mm)	20 °C Maximum conductor resistance (Ω/km)
0.1	12×0.10	0.45	1.3	188
0.2	12×0.15	0.65	1.8	95
0.3	16×0.15	0.6	1.85	71.2
0.4	23×0.15	0.5	1.9	49.6
0.5	28×0.15	0.6	2.2	40.1
0.75	42×0.15	0.7	2.6	26.7
1	32×0.20	0.75	2.8	20
1.5	48×0.20	0.75	3.1	13.7

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Nominal section (mm <sup>2</sup> )	Number/strand Diameter (mm)	Insulation thickness (mm)	Nominal outer diameter (mm)	20 °C Maximum conductor resistance (Ω/km)
2	40×0.25	0.85	3.4	9.9
2.5	49×0.25	0.85	3.7	8.21
4	56×0.30	0.7	4.3	5.09
6	84×0.30	0.8	5.2	3.39
10	84×0.40	1	6.6	1.95
16	126×0.40	1.2	8.4	1.24
25	196×0.40	1.4	10.4	0.795

Note: Other specifications of wires could be customized according to your requirements.

# 180°C AGR EXTRA SOFT SILICON RUBBER INSULATED WIRE



## APPLICATION

Suitable for lighting equipment, high-temperature control cabinets, instruments and meters, boilers, brick factories, heating equipment, electric heating appliances, kitchen appliances, automobiles, high-temperature motors, transformers, and chemical industry equipment, etc

## Technical data

Conductor: silver plated copper, nickel plated copper or tinned copper

Insulation: Silicon rubber

Temperature Range: -60C~180 °C

Rated Voltage: 300/500V



Conductor Size (AWG)	Number/strand Diameter (mm)	Insulation thickness (mm)	Nominal outer diameter (mm)	20 °C Maximum conductor resistance (Ω/km)
30#	14/0.07	0.45	1.3	381
28#	21/0.07	0.45	1.3	239
26#	32/0.07	0.5	1.5	150
24#	52/0.07	0.5	1.6	94.2
22#	84/0.07	0.5	1.8	59.4
20#	140/0.07	0.5	2.1	36.7
18#	210/0.07	0.6	2.4	23.2

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Conductor Size (AWG)	Number/strand Diameter (mm)	Insulation thickness (mm)	Nominal outer diameter (mm)	20 °C Maximum conductor resistance (Ω/km)
18#	384/0.05	0.6	2.4	23.2
16#	353/0.07	0.76	3.06	14.6
15#	427/0.07	0.76	3.3	11.3
14#	530/0.07	0.76	3.5	8.96
13#	653/0.07	0.76	4	7.1
12#	855/0.07	0.76	4.5	5.64
11#	1080/0.07	1.14	5.5	4.48
10#	1050/0.08	1.14	6	3.546
10#	1368/0.07	1.14	6	3.546
8#	2160/0.07	1.52	7.2	2.23
7#	2701/0.07	1.52	8	1.768
6#	3420/0.07	1.52	8.5	1.403
5#	4440/0.07	2	9.8	1.113
3#	3400/0.10	2	11.4	0.6996
2#	4522/0.10	2	12.6	0.5548

Note: Other specifications of wires could be customized according to your requirements.



## 200°C FL2G SILICON RUBBER INSULATED WIRE



### APPLICATION

Suitable for automobile engine compartment, automobile lamps, lighting lamps, ballasts, automobile battery connecting wires, etc.

### Technical data

Conductor: bare copper or tinned copper

Insulation: Silicon rubber

Temperature Range: -40°C~200°C (3000h)

Rated Voltage: 60V d.c, 25V a.c



Nominal section (mm <sup>2</sup> )	Number/strand Diameter (mm)	Insulation thickness (mm)	Nominal outer diameter (mm)	20 °C Maximum conductor resistance (Ω/km)
0.5	16/0.2	0.6	2.1	39
0.75	24/0.2	0.6	2.4	26
1	32/0.2	0.6	2.6	19.5
1.5	30/0.2	0.7	2.9	13.3
2.5	50/0.2	0.8	3.5	7.98
4	56/0.3	0.8	4.2	4.95
6	84/0.3	0.8	4.8	3.3
10	84/0.4	1	6.2	1.91

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Nominal section (mm <sup>2</sup> )	Number/strand Diameter (mm)	Insulation thickness (mm)	Nominal outer diameter (mm)	20 °C Maximum conductor resistance (Ω/km)
16	126/0.4	1	7.8	1.21
25	196/0.4	1.5	9.2	0.78
35	276/0.4	1.5	10.8	0.554
50	396/0.4	1.7	12.8	0.368
70	360/0.5	1.7	14.5	0.259
95	475/0.5	1.7	17	0.196
120	608/0.5	1.7	18.4	0.153

Note: Other specifications of wires could be customized according to your requirements.