



# SILICON CABLE

### Customization

Customized colour option and printing of the outer sheath on request

**SINGLE CORE**

**-55°C to 180°C**

**RJ 0601**



### Product Description:

Areas with high ambient temperatures and additionally high flexibility required.

### Application:

- Boiler Rooms, Turbine Controls
- Steel Plants, Diesel Locomotives
- High Voltage Furnace Equipments

### Approvals:



### Product Features:

- Flame & radiation resistance
- Ozone & sunlight resistance
- Resistant against a multitude of oils, alcohols, vegetable and animal fats and chemical media

### Colour Codes:

- Colour: Coloured (Black, Red, Blue, Brown, Yellow, Grey, White, Green, Orange)

### Benefits:

- Longer durability in harsh applications than conventional silicone cables
- Good flexibility ease the installation where space is limited

### Make Up:

- Fine strands of tinned copper wires
- Silicone rubber insulated

### Technical Data:

- **Based on**  
Indian Standard IS 9968/ IS 6380
- **Specific insulation resistance**  
>20 GOhm x cm
- **Conductor stranding**  
Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5
- **Minimum bending radius**  
Oscillating flexing: 15 x cable diameter  
Fixed installation: 4 x cable diameter
- **Rated voltage**  
Up to 1.5 mm<sup>2</sup>: U0/U: 300/500 V
- **Test voltage**  
2000 V (Spark Test)
- **Range of temperature**  
-55°C up to +180°C  
if adequate ventilation provided

Part number	Conductor area mm <sup>2</sup>	No. & dia. of wires in mm	Max DC Resistance ohm/km	Thickness of insulation in mm	Current Rating AMPS	Outer dia. in mm approx.	Copper index kg/km
<b>RJ 0601</b>							
0601 00101	0.5	16 X 0.2	39	0.6	4	2.4	4.50
0601 00201	0.75	24 X 0.2	26	0.6	7	2.6	6.75
0601 00301	1.0	32 X 0.2	19.5	0.6	11	2.8	9.00
0601 00401	1.5	48 X 0.2	13.3	0.6	14	3.1	13.50
0601 00501	2.5	80 X 0.2	7.98	0.7	19	3.9	22.50
0601 00601	4	56 X 0.3	4.95	0.8	26	4.4	36.00
0601 00701	6	84 X 0.3	3.013	1	31	5.6	54.00
0601 00801	10	80 X 0.4	1.86	1	42	6.8	90.00
0601 00901	16	127 X 0.4	1.15	1.2	57	8.4	144.00
0601 01001	25	200 X 0.4	0.6911	1.4	71	10.5	225.00
0601 01101	35	280 X 0.4	0.5277	1.4	91	11.6	315.00
0601 01201	50	400 X 0.4	0.3572	1.6	120	14.0	450.00
0601 01301	70	360 X 0.5	0.2639	1.6	161	16.0	630.00
0601 01401	95	484 X 0.5	0.204	1.8	200	18.5	855.00
0601 01501	120	612 X 0.5	0.153	2	225	20.9	1080.00
0601 01601	150	764 X 0.5	0.123	2	240	22.5	1350.00
0601 01701	185	943 X 0.5	0.101	2.2	300	25.3	1665.00
0601 01801	240	1224 X 0.5	0.0763	2.2	425	28.1	2160.00



## SILICON CABLE

### Customization

Customized colour option and printing of the outer sheath on request

**MULTI CORE**

**-55°C to 180°C**

**RJ 0602**



### Product Description:

Areas with high ambient temperatures and additionally high flexibility required.

### Application:

Typical fields of application - Steel-, cement-, ceramic and iron works - Bakery equipment and industrial furnaces-Electric motor industry - Thermal and heating elements - Lighting technology - Air conditioning technology – Generator and transformer building.

### Approvals:



### Product Features:

- Halogen-free and flame retardant
- Reduced smoke density
- Good hydraulic and UV resistance
- Resistant against a multitude of oils, alcohols, vegetable and animal fats and chemical media

### Colour Codes:

- Up to 7 cores: Coloured (Black, Red, Blue, Yellow, White, Green, Orange)

### Technical Data:

- **Based on**  
Indian Standard IS 9968/ IS 6380

### Make Up:

- Fine strands of tinned copper wires
- Core insulation based on silicone
- Cores twisted collectively
- Notch resistant silicone based outer sheath, colour black

### Specific insulation resistance

>20 GOhm x cm

### Conductor stranding

Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5

### Minimum bending radius

Oscillating flexing: 10 x cable diameter  
Fixed installation: 4 x cable diameter

### Rated voltage

U0/U: 300/500 V

### Test voltage

2000 V (Spark Test)

### Range of temperature

-55 °C up to +180 °C if (adequate ventilation provided)

### Benefits:

- Longer durability in harsh applications than conventional silicone cables
- Notch and tear resistant silicone compounds reducing damages due to mechanical stress
- Good flexibility ease the installation where space is limited



Part number		Number of cores and mm <sup>2</sup> per conductor		Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx
without protective conductor(X)	with protective conductor(G)	without protective conductor(X)	with protective conductor(G)			
<b>RJ 0602</b>						
0602 10202		2 X 0.75		6.8	15	49
	0602 00203		3 G 0.75	7.6	22	60
	0602 00204		4 G 0.75	8.2	29	76
	0602 00205		5 G 0.75	8.9	50	120
	0602 00207		7 G 0.75	9.7	52.5	110
0602 10302		2 X 1.0		7.7	20	56
	0602 00303		3 G 1.0	8.7	29	68
	0602 00304		4 G 1.0	9.5	39	88
	0602 00305		5 G 1.0	10.3	48	110
	0602 00307		7 G 1.0	11.3	67.2	137
0602 10402		2 X 1.5		8.0	29	77
	0602 00403		3 G 1.5	8.7	43	94
	0602 00404		4 G 1.5	9.5	58	117
	0602 00405		5 G 1.5	10.4	72	143
	0602 00407		7 G 1.5	11.3	101	180
0602 10502		2 X 2.5		9.4	48	110
	0602 00503		3 G 2.5	10.6	72	146
	0602 00504		4 G 2.5	11.5	96	181
	0602 00505		5 G 2.5	12.6	120	222
	0602 00603		3 G 4.0	11.5	114	213
	0602 00604		4 G 4.0	12.8	152	267
	0602 00605		5 G 4.0	13.9	190	334
	0602 00703		3 G 6.0	13.2	174	297
	0602 00704		4 G 6.0	14.9	232	381
	0602 00705		5 G 6.0	16.5	290	481

**Note:** Colours of protective core, shall be green only.