

SINGLE CORE WITHOUT PROTECTIVE COVERING

-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 mm²: U0/U: 300/500 V & 1100V above 1.5mm²
- ❑ **Test voltage**
2000 V (Spark Test)
- ❑ **Range of temperature**
-55°C up to +180°C
if adequate ventilation provided

Part number	Conductor area mm ²	No. & dia. of wires in mm	Max DC Resistance ohm/km	Thickness of insulation in mm	Current Rating AMPS upto 150°C	Outer dia. in mm approx.	Copper index kg/km
RJ 0601							
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 ² 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)			
RJ 0602						
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.

SINGLE CORE WITH PROTECTIVE COVERING

-55°C to 180°C

RJ 0603



Product Description:

Areas with high ambient temperatures and additionally high flexibility required.

Application:

- Electrical motors/Generators
- 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, chemical media, solvent & varnishes.

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
- Protective covering with synthetic yarn braid and polyurethane varnished.

Technical Data:

- Based on**
Indian Standard IS 8130/BS 6360:1991
- Specific insulation resistance**
>20 GOhm x cm
- Conductor stranding**
Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5 or IS 8130 : 1984
- Minimum bending radius**
Oscillating flexing: 15 x cable diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
Up to 1100V/3300V/6600V/13800V
- Test voltage**
3.5KV/10.0KV/15.0KV/30.0KV
- Range of temperature**
-55°C up to +180°C
if adequate ventilation provided

Part number	Conductor area mm ²	No. & dia. of wires in mm	Max DC Resistance ohm/km	Thickness of insulation in mm	Current Rating AMPS upto 30°C	Outer dia. in mm approx.	Copper index kg/km
SINGLE CORE 1.1KV							
0603 00101	0.5	16/0.2	40.1	0.9	20	3.2	4.5
0603 00201	1	32/0.2	20		30	3.6	9
0603 00301	2	40/0.25	9.05		45	4.3	18
0603 00401	4	80/0.25	5.09		60	5.3	36
0603 00501	5	102/0.25	3.62		75	5.7	45
0603 00601	6	84/0.3	3.39		95	6.3	54
0603 00701	8	64/0.4	2.33		115	7.1	72
0603 00801	10	80/0.4	1.24		135	7.8	90
0603 00901	12	95/0.4	1.55		170	8.1	108
0603 01001	16	126/0.4	1.24		205	9.2	144
0603 01101	25	196/0.4	0.795	1.1	240	11.1	225
0603 01201	30	238/0.4	0.622		275	11.6	270
0603 01301	35	276/0.4	0.565		315	12.7	315
0603 01401	38	303/0.4	0.51	1.3	330	13.2	342
0603 01501	42	333/0.4	0.444		350	13.8	378
0603 01601	50	396/0.4	0.393		400	14.8	450
0603 01701	70	360/0.5	0.277		510	16.5	630

Part number	Conductor area mm²	No. & dia. of wires in mm	Max DC Resistance ohm/km	Thickness of insulation in mm	Current Rating AMPS upto 30°C	Outer dia. in mm approx.	Copper index kg/km
0603 01801	95	475/0.5	0.21	1.5	620	18.9	855
0603 01801	95	475/0.5	0.21		620	18.9	855
0603 01901	120	608/0.5	0.164		700	20.9	1080
0603 02001	185	925/0.5	0.108	1.9	850	25.4	1665
SINGLE CORE 3.3 KV							
0603 00102	4	80/0.25	5.09	1.8	60	7.2	36
0603 00202	5	102/0.25	3.62		75	7.5	45
0603 00302	6	84/0.3	3.39		95	8.1	54
0603 00402	8	64/0.4	2.33		115	8.6	72
0603 00502	10	80/0.4	1.95		135	9.8	90
0603 00602	12	95/0.4	1.55		170	10.1	108
0603 00702	16	126/0.4	1.24		205	11.0	144
0603 00802	25	196/0.4	0.795		240	12.5	225
0603 00902	30	238/0.4	0.622		275	13.2	270
0603 01002	35	276/0.4	0.565		315	14.1	315
0603 01102	38	303/0.4	0.51	2.0	330	14.6	342
0603 01202	42	333/0.4	0.444		350	15.2	378
0603 01302	50	396/0.4	0.393		400	16.2	450
0603 01402	70	360/0.5	0.277		510	17.9	630
0603 01502	95	475/0.5	0.21	2.3	620	20.5	855
0603 01602	120	608/0.5	0.164		700	22.5	1080
0603 01702	185	925/0.5	0.108		850	26.2	1665
SINGLE CORE 6.6 KV							
0603 00103	4	80/0.25	5.09	2.2	55	8.5	36
0603 00203	5	102/0.25	3.62		70	8.8	45
0603 00303	6	84/0.3	3.39		85	9.4	54
0603 00403	8	64/0.4	2.33		103	9.9	72
0603 00503	10	80/0.4	1.95		120	10.6	90
0603 00603	12	95/0.4	1.55		150	10.9	108
0603 00703	16	126/0.4	1.24		185	11.8	144
0603 00803	25	196/0.4	0.795		225	13.3	225
0603 00903	30	238/0.4	0.622		255	14.0	270
0603 01003	35	276/0.4	0.565		290	15.0	315
0603 01103	38	303/0.4	0.51	2.4	305	15.6	342
0603 01203	42	333/0.4	0.444		325	16.2	378
0603 01303	50	396/0.4	0.393		365	17.1	450
0603 01403	70	360/0.5	0.277		460	18.7	630
0603 01503	95	475/0.5	0.21		560	20.8	855
0603 01603	120	608/0.5	0.164		625	22.8	1080
0603 01703	185	925/0.5	0.108	2.5	765	26.7	1665
SINGLE CORE 13.8 KV							
0603 00104	6	84/0.3	3.39	3.5	85	11.9	54
0603 00204	8	64/0.4	2.33		103	12.4	72
0603 00304	10	80/0.4	1.95		120	13.1	90
0603 00404	12	95/0.4	1.55		150	13.4	108
0603 00504	16	126/0.4	1.24		185	14.5	144
0603 00604	25	196/0.4	0.795		225	16.0	225
0603 00704	30	238/0.4	0.622		255	16.7	270
0603 00804	35	276/0.4	0.565		290	17.6	315
0603 00904	38	303/0.4	0.51		305	18.4	342
0603 01004	42	333/0.4	0.444		325	19.0	378
0603 01104	50	396/0.4	0.393		365	19.3	450
0603 01204	70	360/0.5	0.277		460	21.0	630
0603 01304	95	475/0.5	0.21		560	23.0	855
0603 01404	120	608/0.5	0.164		625	25.0	1080
0603 01504	185	925/0.5	0.108	3.7	765	29.3	1665