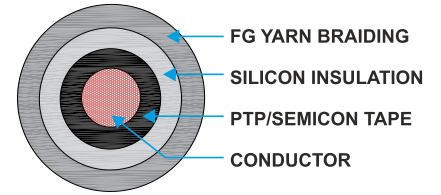
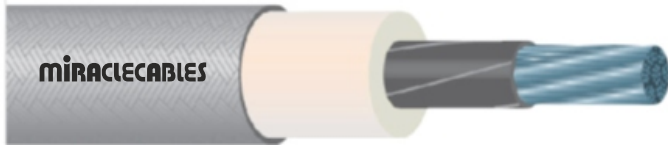




# Silicon Cables

Single Core V Cables – 1.1 KV, 3.3 KV, 6.6 KV



## Application

Cabling for rotating machines, motors, alternators, generators.  
 Cabling for static machine transformers, inductors, inverter, choppers, shipbuilding and railway construction.  
 Power cabinets, high voltage machines.

## Construction

- Flexible tin-plated copper core - class 5 as per IEC 60228 - PTP separator tape for 1.1 kv & Semicon tape (including & above 3.3 kv)
- Insulation : Silicone rubber synthetic yarn braid varnish

## Properties

- Breakdown field strength : >20 KV / mm
- Dielectric constant : 3-4
- Loss factor : <10-2
- Insulation resistance : 200 MΩ X KM
- Tensile strength : 8Mpq (Min.)
- Elongation at break of insulation : 250% (Min.)
- Minimum bending radius : 5 X Overall diameter
- Flexibility (Conductor) : Class-5 conf. to IEC-60228

## Technical Parameter

- Continuous operating temperature : +180°C
- Intermittent : +180°C
- Short time duration 1-5 sec. : +350°C
- Rated voltage 1.1 KV (Test voltage - 3.5 KV)
- Rated voltage 3.3 KV (Test voltage - 10 KV)
- Rated voltage 6.6 KV (Test voltage - 15 KV)

## Dimension

Part code	Sq.mm.	Thickness Insulation (mm)			Overall Diameter (mm)						Cond Resistance @20degC
		Voltage category V			1.1KV		3.3KV		6.6KV		
		1.1KV	3.3kv	6.6kv	Min	Max	Min	Max	Min	Max	
1806T010040	4.00	1.0	~	~	5.0	5.6	~	~	~	~	5.09
1806T010060	6.00	1.0	~	~	5.6	6.3	~	~	~	~	3.39
1806T010100	10	1.2	~	~	6.9	7.6	~	~	~	~	1.95
1806T010160	16	1.2	2.2	2.8	8.2	9.0	10.5	11.3	11.8	12.6	1.24
1806T010250	25	1.4	2.2	2.8	10	11	11.8	12.8	13	13.8	0.795
1806T010350	35	1.4	2.2	2.8	11.3	12.3	12.9	13.9	14.2	15.3	0.565
1806T010500	50	1.6	2.2	2.8	13.3	14.3	13.4	15.6	15.8	16.0	0.393
1806T010700	70	1.6	2.2	2.8	15.2	16.2	16.4	17.6	17.7	19.1	0.277
1806T010950	95	1.8	2.4	3.0	17.8	18.8	18.6	19.7	19.9	21.4	0.210
1806T011200	120	1.8	2.4	3.0	19.1	20.1	20.2	21.5	21.6	23.0	0.164
1806T011500	150	2.0	2.4	3.0	21.4	22.4	22.0	23.3	23.3	24.6	0.132

Bare = Bare Copper



1806 - Silicon Cables