



# PVC INDUSTRIAL CABLE

## Insulation

MESCAB Single Core Flexible cables are PVC insulated (unsheathed) industrial wires with flexible copper conductor. The insulation is made with a special grade of PVC compound having high insulation resistance values. It has all the thermal and chemical properties which help in serving under tough situation. It enables completion of all the tests according to IS specification. The insulation is as per type of IS : 5831 : 1984 and is suitable for 70° continuous temperature operation. These cables are used in various industrial and domestic applications such as machinery tools, engineering equipments, telecommunication, control panel, fixed and flexible wiring in any type of industries.

## Conductor

The conductors are drawn from 99.97% pure bright electrolytic grade annealed copper and bunched together which gives flexibility, high purity and conductivity ensuring higher current rating. Thus helps in saving energy.

FR PVC Insulated (Unsheathed) single core multi strand cable with electrolytic grade annealed copper conductor suitable up to 1100 Volts grade conforming to IS:694

Nominal Area of Conductor Sq.mm	Number/ Nom. dia* of Wire mm	Nominal Thickness of Insulation mm	Approx. Overall Diameter mm	Current Carrying Capacity 2 Cables, Single Phase @		Max DC Conductor Resistance At 20°C Ohms/km
				In Conduit Amps	Unenclosed Amps	
0.5	16/0.2	0.6	2.2	04	05	39.00
0.75	24/0.2	0.6	2.5	07	08	26.00
1.0	32/0.2	0.7	2.8	11	12	19.50
1.5	30/0.25	0.7	3.1	13	16	13.30
2.5	50/0.25	0.8	3.8	18	22	7.98
4.0	56/0.3	0.8	4.4	24	29	4.95
6.0	84/0.3	0.8	5.0	31	37	3.30

PVC Insulated (Unsheathed) single core multi strand cable with electrolytic grade annealed copper conductor suitable up to 1100 Volts grade generally conforming to IS:694

Nominal Area of Conductor Sq.mm	Number/ Nom. dia* of Wire mm	Nominal Thickness of Insulation mm	Approx. Overall Diameter mm	Current Carrying Capacity 2 Cables, Single Phase @		Max DC Conductor Resistance At 20°C Ohms/km
				In Conduit Amps	Unenclosed Amps	
10.0	80/0.4	1.0	6.5	NA	46	1.91
16.0	126/0.4	1.0	7.4	NA	62	1.21
25.0	196/0.4	1.2	9.3	NA	80	0.78
35.0	276/0.4	1.2	10.5	NA	102	0.554
50.0	396/0.4	1.4	12.5	NA	138	0.386
70.0	360/0.5	1.4	14.7	NA	214	0.272
95.0	475/0.5	1.6	16.7	NA	260	0.206
120.0	608/0.5	1.6	18.6	NA	305	0.161
150.0	750/0.5	1.8	20.9	NA	355	0.129
185.0	925/0.5	2.0	22.9	NA	415	0.106
240.0	1221/0.5	2.2	26.2	NA	425	0.0801
300.0	1527/0.5	2.4	29.2	NA	490	0.0641
400.0	2036/0.5	2.6	33.2	NA	590	0.0486
500.0	2540/0.5	2.8	37.3	NA	720	0.0384
630.0	3200/0.5	2.8	41.2	NA	900	0.0287

Sub sequential meter marking on cable for sizes above 50 Sq.mm

Colours : Available in Red, Yellow, Blue, Black, Grey & Green.

Marking : The cables are printed with brand name, size in sq.mm. & voltage grade.