



MULTICORE CABLES

Insulation

To overcome the limitation of conventional Poly Vinyl Chloride (PVC) insulation of cables, conductors are insulated with specially formulated PVC Compound having High Insulation Resistance, Di-electric Strength, High Critical Oxygen Index and High Temperature Index.

Conductor

Manufactured from electrolytic grade bright annealed copper which provides maximum conductivity to the flow of electricity. Thus helps in saving energy.

Sheath

The separate insulated cores are to be assembled to form multi core cables. So, Multi core cables envisage the requirement of sheathing, 'MESCAB' cables are provided with the exclusively formulated PVC compound for sheathing, meeting all the National Standards, minimizing electrostatic and mechanical break down.

PVC Insulated & PVC Sheathed Multicore Cable with electrolytic grade annealed copper conductor suitable up to 1100V grade conforming to IS:694

Nominal Area in Sq. mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				2 Core	3 Core	4 Core	2 Core	3 Core	4 Core		
0.50	16/0.2	0.60	2.20	0.9	0.9	0.9	6.2	6.5	7.0	4	39.00
0.75	24/0.2	0.60	2.45	0.9	0.9	0.9	6.7	7.2	7.8	7	26.00
1.00	32/0.2	0.60	2.45	0.9	0.9	0.9	7.0	7.4	8.1	12	19.5
1.50	30/0.25	0.60	2.75	0.9	0.9	0.9	7.6	8.0	9.2	15	13.3
2.50	50/0.25	0.70	3.50	1.0	1.0	1.0	9.1	9.6	10.7	20	7.98
4.00	56/0.3	0.80	4.10	1.0	1.1	1.1	10.5	11.4	12.4	27	4.95
6.00	84/0.3	0.80	4.80	1.1	1.1	1.2	12.3	13.3	14.7	35	3.30
10.00	80/0.4	1.00	6.30	1.2	1.2	1.3	15.7	16.9	18.6	40	1.91
16.00	126/0.4	1.00	7.30	1.3	1.3	1.4	18.0	19.10	21.2	62	1.21
25.00	196/0.4	1.20	9.30	1.4	1.5	1.6	23.0	23.5	26.1	80	0.78
35.00	276/0.4	1.20	10.50	1.5	1.6	1.7	25.5	26.3	29.2	102	0.554
50.00	396/0.4	1.40	12.40	1.6	1.7	1.8	29.0	31.8	34.0	138	0.386
70.00	360/0.5	1.40	14.70	1.6	1.7	1.8	29.0	31.8	34.0	214	0.272

Colours of core & sheath

Type	Colours of Core	Colours of Sheath
2 Core Sheathed	Red & Black	Black, White & Grey
3 Core Sheathed	Red, Black & Green for earth	Black, White & Grey
4 Core Sheathed	Red, Yellow, Blue & Green for earth	Black, White & Grey

- * FR / FR-LSH multicore cables can be supplied on request at extra cost.
- * Each cores of the wire is in different colour for identification.

PVC Insulated & PVC Sheathed Multicore Cable with electrolytic grade annealed copper conductor suitable up to 1100V grade generally conforming to IS:694

Nominal Area in Sq. mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				6 Core	7 Core	8 Core	6 Core	7 Core	8 Core		
0.50	16/0.2	0.6	2.20	0.90	0.90	1.00	8.50	8.50	9.30	4	39.00
0.75	24/0.2	0.6	2.45	1.00	1.00	1.00	9.50	9.50	10.40	7	26.00
1.00	32/0.2	0.6	2.45	1.00	1.00	1.00	9.80	9.80	10.70	12	19.5
1.5	30/0.25	0.6	2.75	1.00	1.00	1.10	10.70	10.70	11.90	15	13.3
2.5	50/0.25	0.7	3.50	1.00	1.10	1.20	12.70	12.70	14.10	20	7.98
4.0	56/0.3	0.8	4.10	1.20	1.20	1.30	15.30	15.30	16.90	27	4.95

Nominal Area in Sq. mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				10 Core	12 Core	14 Core	10 Core	12 Core	14 Core		
0.50	16/0.2	0.6	2.20	1.00	1.00	1.10	10.80	11.20	12.00	4	39.00
0.75	24/0.2	0.6	2.45	1.10	1.10	1.10	12.20	12.60	13.30	7	26.00
1.00	32/0.2	0.6	2.45	1.10	1.10	1.10	12.60	13.00	13.70	12	19.5
1.5	30/0.25	0.6	2.75	1.10	1.10	1.20	13.80	14.30	15.20	15	13.3
2.5	50/0.25	0.7	3.50	1.30	1.30	1.30	16.60	17.20	18.10	20	7.98
4.0	56/0.3	0.8	4.10	1.40	1.40	1.40	20.00	20.70	21.80	27	4.95

Nominal Area in Sq. mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				16 Core	19 Core	24 Core	16 Core	19 Core	24 Core		
0.50	16/0.2	0.6	2.20	1.10	1.10	1.20	12.60	13.20	15.60	4	39.00
0.75	24/0.2	0.6	2.45	1.20	1.20	1.30	14.20	14.90	17.60	7	26.00
1.00	32/0.2	0.6	2.45	1.20	1.30	1.30	14.60	15.60	18.20	12	19.5
1.5	30/0.25	0.6	2.75	1.20	1.30	1.40	16.00	17.10	20.20	15	13.3
2.5	50/0.25	0.7	3.50	1.40	1.40	1.40	19.30	20.30	23.80	20	7.98
4.0	56/0.3	0.8	4.10	1.50	1.50	1.50	23.20	24.50	28.50	27	4.95