

## **EARTHING READY RECOKONER**

<b>S. NO.</b>	<b>ITEM</b>	<b>COPPER</b>	<b>ALUMINIUM</b>	<b>G.I</b>
	<b>WEIGHT OF CONDUCTOR KG/MTR</b>			
1.	NO. 14 SWG Wire 0.028		0.0254	
2.	NO. 12 SWG Wire 0.028	0.049(6MM <sup>2</sup> )	0.0162	0.043
3.	NO. 8 SWG Wire 0.028	0.115(10MM <sup>2</sup> )	0.02703	0.102
4.	NO. 6 SWG Wire 0.028	0.1668	-	0.1465
5.	NO. 4 SWG Wire 0.028	0.243	-	0.224
6.	NO. 2 SWG Wire 0.028	0.344(35MM <sup>2</sup> )	0.0945	0.305
7.	25x3 MM Flat	0.670	0.202	0.590
8.	32x6 MM Flat	1.715	0.518	1.510
9.	50x6 MM Flat	2.680	0.810	2.360
10.	600x600x6 MM Thick Plate	19.30	5.83	17
11.	600x600x12 MM Thick Plate	38.60	11.66	34

**RECOMMENDED EARTH CONDUCTORS FOR MOTORS**

<b>S. NO.</b>	<b>ITEM</b>	<b>COPPER</b>	<b>ALUMINIUM</b>	<b>G.I.</b>
<b>1.</b>	Up to 15 H.P 12 SWG	6MM	8SWG	
<b>2.</b>	Up to 20 to 30 H.P SWG	10MM	4SWG	
<b>3.</b>	Up to 35 to 50 HP 4 SWG	35MM	25x3 MM Flat	
<b>4.</b>	Above 50 H.P 25x3	25x6 MM Flat	32x6 MM Flat	MM Flat

<b>G.I. Cond SIZE</b>	<b>Area</b>	<b>Nominal Dia MM</b>	<b>Approx. Weight Kg/M</b>	<b>Approx Resistance Ohm/M</b>
14 S.W.G	3.24	2.03	0.026	0.0433
12 S.W.G	5.48	2.64	0.044	0.02565
10 S.W.G	8.35	3.26	0.067	0.0162
8 S.W.G	12.97	4.06	0.104	0.0163

4 S.W.G	27.27	5.89	0.218	0.00505
25x3 MM	75.00		0.600	0.0017
32x6 MM	192.00		1.536	0.0007
50x6 MM	300		2.400	0.00033