

EARTHING READY RECOKONER

| S.No. | Items | Copper | Aluminium | G.I. |
|-------|--|-----------------------------|-------------------|---------|
| | WEIGHT OF CONDUCTOR KG/MTR. | | | |
| 1. | No. 14 SWG Wire 0.028 | | 0.0254 | |
| 2. | No. 12 SWG Wire 0.028 | 0.049 (6MM ²) | 0.0162 | 0.043 |
| 3. | No. 8 SWG Wire 0.028 | 0.1155 (10MM ²) | 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 ²) | 0.0945 | 0.305 |
| 7. | 25 x 3 MM Flat | 0.670 | 0.202 | 0.590 |
| 8. | 32 x 6 MM Flat | 1.715 | 0.518 | 1.510 |
| 9. | 50 x 6 MM Flat | 2.680 | 0.810 | 2.360 |
| 10. | 600 x 600 x 6 MM Thick Plate | 19.30 | 5.83 | 17.00 |
| 11. | 600 x 600 x 12 MM Thick Plate | 38.60 | 11.66 | 34.00 |
| | RECOMMENDED EARTH CONDUCTORS FOR MOTORS | | | |
| 1. | Upto 15 H.P. 12 Swg | 6 MM | 8 Swg | |
| 2. | Upto 20 to 30 H. P. Swg | 10 MM | 4 Swg | |
| 3. | Upto 35 to 50 H.P. Swg | 35 MM | 25 x 3 MM Flat | |
| 4. | Above 50 HP 25 x 3 | 25 x 6 MM Flat | 32 x 6 MM Flat | MM Flat |

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| G.I. Cond Size | Area MM ² | Nominal Dia MM | Approx. Weight kg/M. | Approx. Resistance Ohm/M. |
|------------------|-------------------------|-------------------|----------------------------|---------------------------------|
| 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 | 0.1063 |
| 4 S.W.G. | 27.27 | 5.89 | 0.218 | 0.00505 |
| 25 x 3 MM | 75.00 | | 0.600 | 0.0017 |
| 32 x 6 MM | 192.00 | | 1.536 | 0.0007 |
| 50 x 6 MM | 300.00 | | 2.400 | 0.00033 |