***MOGOGA ENERGY BOTS***

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***5 MAY 2025***

***Att: Ambassador Ukraine Embassy, Gaborone, Botswana***

***REFFERENCE; UKRAINE MANUFACTURES PARTNERSHIP REQUEST FOR ELECTRIC C0NDUCTORS AND BOTSWANA SPECS***

CONDUCTOR SPECS

Aluminium Conductor Steel Reinforced – ACSR

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Code Name | Equival  Copper  area | Stranding  And wire  Diameter | Diameter  Over  Steel | Overall  Diameter  (std) | Aluminium  area | Steel  Area | Total  area | Mass kg/km | | | Ultimate  tensile  strength | Coefficient  Of linear  expansion | Initial  Modulus  Of  elasticity | final  Modulus  Of  elasticity | DC  Resistance at 20oC | Current  rating | Standard  Drum length |
|  | mm2 | mm | mm | mm | mm2 | mm2 | mm2 | aluminium | steel | total | newton | /Co x 10-6 | Mpa | Mpa | Ω/km | A | m |
| Gopher | 16.30 | 6/1/2.36 | 2.36 | 7.08 | 26.25 | 4.37 | 30.62 | 72.20 | 34.40 | 107 | 9610 | 19.31 | 52700 | 80400 | 1.0933 | 150 | 3000 |
| Rabbit | 32.26 | 6/1/3.35 | 3.35 | 10.05 | 52.88 | 8.81 | 61.70 | 145 | 69.40 | 214 | 18500 | 19.31 | 49500 | 80400 | 0.5426 | 240 | 1500 |
| Hare | 64.52 | 6/1/4.72 | 4.72 | 14.16 | 104.98 | 17.50 | 122.48 | 289 | 138 | 427 | 36000 | 19.31 | 48500 | 80400 | 0.2733 | 360 | 1500 |
| Wolf | 96.77 | 30/7/2.59 | 7.77 | 18.13 | 158.06 | 36.88 | 194.94 | 438 | 292 | 730 | 69200 | 18.43 | 55700 | 83400 | 0.1828 | 470 | 2000 |