LIRE TABLB - Copper Tire - Hesti Insalition:

| Afg | DIANETER <br> Copper cm | AREA Coppar $\mathrm{cm}^{2}$ | DINMETER <br> Insulatd cE | $\begin{gathered} \text { AREA } \\ \text { Ins. } \\ c m^{2} \end{gathered}$ | $\begin{aligned} & \text { oams/CM } \\ & 20 \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { OHMS / CM } \\ & 100 \mathrm{C} \end{aligned}$ | $\begin{gathered} \text { ANPS } \\ \text { for } \\ 450 \mathrm{~A} / \mathrm{cm}^{2} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | . 259 | . 052620 | . 273 | . 058572 | . 000033 | . 000044 | 23.679 |
| 11 | . 231 | . 041729 | . 244 | . 046738 | . 000041 | . 000055 | 18.778 |
| 12 | . 205 | . 033092 | . 218 | . 037309 | . 000052 | . 000070 | 14.892 |
| 13 | . 183 | . 026243 | . 195 | . 029793 | . 000066 | . 000088 | 11.809 |
| 14 | . 163 | . 020811 | . 174 | . 023800 | . 000083 | . 000111 | 9.365 |
| 15 | . 145 | . 016504 | . 156 | . 019021 | . 000104 | . 000140 | 7.427 |
| 16 | . 129 | . 013088 | . 139 | . 015207 | . 000132 | . 000176 | 5.890 |
| 17 | . 115 | . 010379 | . 124 | . 012164 | . 000166 | . 000222 | 4.671 |
| 18 | . 102 | . 008231 | . 111 | . 009735 | . 000209 | . 000280 | 3.704 |
| 19 | . 091 | . 006527 | . 100 | . 007794 | . 000264 | . 000353 | 2.937 |
| 20 | . 081 | . 005176 | . 089 | . 006244 | . 000333 | . 000445 | 2.329 |
| 21 | . 072 | . 004105 | . 080 | . 005004 | . 000420 | . 000561 | 1.847 |
| 22 | . 064 | . 003255 | . 071 | . 004013 | . 000530 | . 000708 | 1.465 |
| 23 | . 057 | . 002582 | . 064 | . 003221 | . 000668 | . 000892 | 1.162 |
| 24 | . 051 | . 002047 | . 057 | . 002586 | . 000842 | . 001125 | . 921 |
| 25 | . 045 | . 001624 | . 051 | . 002078 | . 001062 | . 001419 | . 731 |
| 26 | . 040 | . 001287 | . 046 | . 001671 | . 001339 | . 001789 | . 579 |
| 27 | . 036 | . 001021 | . 041 | . 001344 | . 001689 | . 002256 | . 459 |
| 28 | . 032 | . 000810 | . 037 | . 001083 | . 002129 | . 002845 | . 364 |
| 29 | . 029 | . 000642 | . 033 | . 000872 | . 002685 | . 003587 | . 289 |
| 30 | . 025 | . 000509 | . 030 | . 000704 | . 003386 | . 004523 | . 229 |
| 31 | . 023 | . 000404 | . 027 | . 000568 | . 004269 | . 005704 | . 182 |
| 32 | . 020 | . 000320 | . 024 | . 000459 | . 005384 | . 007192 | . 144 |
| 33 | . 018 | . 000254 | . 022 | . 000371 | . 006789 | . 009070 | . 114 |
| 34 | . 016 | . 000201 | . 020 | . 000300 | . 008560 | . 011437 | . 091 |
| 35 | . 014 | . 000160 | . 018 | . 000243 | . 010795 | . 014422 | . 072 |
| 36 | . 013 | . 000127 | . 016 | . 000197 | . 013612 | . 018186 | . 057 |
| 37 | . 011 | . 000100 | . 014 | . 000160 | . 017165 | . 022932 | . 045 |
| 38 | . 010 | . 000080 | . 013 | . 000130 | . 021644 | . 028917 | . 036 |
| 39 | . 009 | . 000063 | . 012 | . 000106 | . 027293 | . 036464 | . 028 |
| 40 | . 008 | . 000050 | . 010 | . 000086 | . 034417 | . 045981 | . 023 |
| 41 | . 007 | . 000040 | . 009 | . 000070 | . 043399 | . 057982 | . 018 |

American Wire Gauge (AWG) Table Formulae:

| $D_{x}=\frac{2.54}{\pi} 10-A W G / 20$ | cm | Conductor Diameter |
| :--- | :--- | :--- |
| $D_{x^{\prime}}=D_{x}+.028-/ D_{x}$ | cm | Includes Heavy Insulation |
| $A_{x}=\pi D_{x} 2 / 4 \quad \mathrm{~cm}^{2}$ | Wire Cross-Section Area |  |
| $R_{x}=\rho / A_{X} \quad \Omega / \mathrm{cm}$ | Resistance/Length |  |

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