

**APPROXIMATE HARNESS O.D. - THHN COPPER  
(Shown in inches)**

| Size                    | Single OD | NUMBER OF WIRES AND CORRESPONDING O.D. |          |          |          |          |          |          |          |           |           |           |           |           |           |           |           |
|-------------------------|-----------|--|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                         |           | 3                                      | 4        | 5        | 6        | 7        | 19       | 37       | 61       | 91        | 127       | 169       | 217       | 271       | 331       | 397       | 464       |
| 18                      | 0.096     | 0.192                                  | 0.221    | 0.288    | 0.288    | 0.288    | 0.480    | 0.672    | 0.864    | 1.060     | 1.248     | 1.440     | 1.632     | 1.824     | 2.016     | 2.208     | 2.400     |
| 16                      | 0.106     | 0.212                                  | 0.244    | 0.318    | 0.318    | 0.318    | 0.530    | 0.742    | 0.954    | 1.166     | 1.378     | 1.590     | 1.802     | 2.014     | 2.226     | 2.438     | 2.600     |
| 14                      | 0.112     | 0.224                                  | 0.258    | 0.336    | 0.336    | 0.336    | 0.560    | 0.784    | 1.008    | 1.232     | 1.456     | 1.680     | 1.904     | 2.128     | 2.352     | 2.596     | 2.860     |
| 12                      | 0.131     | 0.262                                  | 0.302    | 0.393    | 0.393    | 0.393    | 0.655    | 0.917    | 1.179    | 1.441     | 1.703     | 1.965     | 2.227     | 2.489     | 2.751     | 3.013     | 3.270     |
| 10                      | 0.165     | 0.330                                  | 0.380    | 0.495    | 0.495    | 0.495    | 0.825    | 1.155    | 1.485    | 1.815     | 2.145     | 2.475     | 2.805     | 3.135     | 3.465     | 3.745     | 4.125     |
| 8                       | 0.218     | 0.436                                  | 0.502    | 0.654    | 0.654    | 0.654    | 1.090    | 1.526    | 1.962    | 2.398     | 2.834     | 3.270     | 3.706     | 4.142     | 4.578     | 5.014     | 5.450     |
| 6                       | 0.257     | 0.514                                  | 0.591    | 0.771    | 0.771    | 0.771    | 1.285    | 1.800    | 2.313    | 2.830     | 3.341     | 3.855     | 4.369     | 4.883     | 5.397     | 5.910     | 6.430     |
| 4                       | 0.328     | 0.656                                  | 0.755    | 0.984    | 0.984    | 0.984    | 1.640    | 2.300    |          |           |           |           |           |           |           |           |           |
| 3                       | 0.356     | 0.710                                  | 0.820    | 1.070    | 1.070    | 1.070    | 1.780    | 2.490    |          |           |           |           |           |           |           |           |           |
| 2                       | 0.388     | 0.780                                  | 0.890    | 1.160    | 1.160    | 1.160    | 1.940    | 2.720    |          |           |           |           |           |           |           |           |           |
| 1                       | 0.450     | 0.900                                  | 1.040    | 1.350    | 1.350    | 1.350    | 2.250    | 3.150    |          |           |           |           |           |           |           |           |           |
| 1/O                     | 0.491     | 0.980                                  | 1.130    | 1.470    | 1.470    | 1.470    | 2.460    |          |          |           |           |           |           |           |           |           |           |
| 2/O                     | 0.537     | 1.070                                  | 1.240    | 1.610    | 1.610    | 1.610    | 2.690    |          |          |           |           |           |           |           |           |           |           |
| 3/O                     | 0.588     | 1.180                                  | 1.350    | 1.760    | 1.760    | 1.760    | 2.940    |          |          |           |           |           |           |           |           |           |           |
| 4/O                     | 0.646     | 1.290                                  | 1.490    | 1.940    | 1.940    | 1.940    | 3.230    |          |          |           |           |           |           |           |           |           |           |
| 250 MCM                 | 0.716     | 1.430                                  | 1.650    | 2.150    | 2.150    | 2.150    |          |          |          |           |           |           |           |           |           |           |           |
| 300 MCM                 | 0.771     | 1.540                                  | 1.770    | 2.310    | 2.310    | 2.310    |          |          |          |           |           |           |           |           |           |           |           |
| 350 MCM                 | 0.822     | 1.640                                  | 1.890    | 2.470    | 2.470    | 2.470    |          |          |          |           |           |           |           |           |           |           |           |
| 400 MCM                 | 0.869     | 1.740                                  | 2.000    | 2.610    | 2.610    | 2.610    |          |          |          |           |           |           |           |           |           |           |           |
| 500 MCM                 | 0.955     | 1.910                                  | 2.200    | 2.870    | 2.870    | 2.870    |          |          |          |           |           |           |           |           |           |           |           |
| 600 MCM                 | 1.058     | 2.120                                  | 2.430    | 3.170    | 3.170    | 3.170    |          |          |          |           |           |           |           |           |           |           |           |
| 750 MCM                 | 1.163     | 2.330                                  | 2.670    | 3.490    | 3.490    | 3.490    |          |          |          |           |           |           |           |           |           |           |           |
| <b>Number of Layers</b> |           | <b>2</b>                               | <b>2</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>5</b> | <b>7</b> | <b>9</b> | <b>11</b> | <b>13</b> | <b>15</b> | <b>17</b> | <b>19</b> | <b>21</b> | <b>23</b> | <b>25</b> |