

## Bare Magnet Wire



| <b>Magnet Wire Sizes (awg)</b>    |             | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> |
|-----------------------------------|-------------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
|                                   | <i>Min.</i> | 0.2023   | 0.1801   | 0.1604   | 0.1429   | 0.1272   | 0.1133   | 0.1009    | 0.0898    | 0.0800    |
| <i>Diameter-Ins.</i>              | <i>Nom.</i> | 0.2043   | 0.1819   | 0.1620   | 0.1443   | 0.1285   | 0.1144   | 0.1019    | 0.0907    | 0.0808    |
|                                   | <i>Max.</i> | 0.2057   | 0.1832   | 0.1631   | 0.1453   | 0.1294   | 0.1153   | 0.1027    | 0.0914    | 0.0814    |
| <b>Nom. Area in Circular Mils</b> |             | 41738    | 33088    | 26244    | 20822    | 16512    | 13087    | 10384     | 8226      | 6529      |

| <b>Magnet Wire Sizes (awg)</b>    |             | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> | <b>21</b> |
|-----------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                   | <i>Min.</i> | 0.0713    | 0.0635    | 0.0565    | 0.0503    | 0.0448    | 0.0399    | 0.0355    | 0.0317    | 0.0282    |
| <i>Diameter-Ins.</i>              | <i>Nom.</i> | 0.0720    | 0.0641    | 0.0571    | 0.0508    | 0.0453    | 0.0403    | 0.0359    | 0.0320    | 0.0285    |
|                                   | <i>Max.</i> | 0.0726    | 0.0647    | 0.0577    | 0.0513    | 0.0458    | 0.0407    | 0.0363    | 0.0323    | 0.0288    |
| <b>Nom. Area in Circular Mils</b> |             | 5184      | 4109      | 3260      | 2581      | 2052      | 1624      | 1289      | 1024      | 812       |

| <b>Magnet Wire Sizes (awg)</b>    |             | <b>22</b> | <b>23</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>27</b> | <b>28</b> | <b>29</b> | <b>30</b> |
|-----------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                   | <i>Min.</i> | 0.0250    | 0.0224    | 0.0199    | 0.0177    | 0.0157    | 0.0141    | 0.0125    | 0.0112    | 0.0099    |
| <i>Diameter-Ins.</i>              | <i>Nom.</i> | 0.0253    | 0.0226    | 0.0201    | 0.0179    | 0.0159    | 0.0142    | 0.0126    | 0.0113    | 0.0100    |
|                                   | <i>Max.</i> | 0.0256    | 0.0228    | 0.0203    | 0.0181    | 0.0161    | 0.0143    | 0.0127    | 0.0114    | 0.0101    |
| <b>Nom. Area in Circular Mils</b> |             | 640       | 511       | 404       | 320       | 253       | 202       | 159       | 128       | 100       |

| <b>Magnet Wire Sizes (awg)</b>    |             | <b>31</b> | <b>32</b> | <b>33</b> | <b>34</b> | <b>35</b> | <b>36</b> | <b>37</b> | <b>38</b> | <b>39</b> |
|-----------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                   | <i>Min.</i> | 0.0088    | 0.0079    | 0.0070    | 0.0062    | 0.0055    | 0.0049    | 0.0044    | 0.0039    | 0.0034    |
| <i>Diameter-Ins.</i>              | <i>Nom.</i> | 0.0089    | 0.0080    | 0.0071    | 0.0063    | 0.0056    | 0.0050    | 0.0045    | 0.0040    | 0.0035    |
|                                   | <i>Max.</i> | 0.0090    | 0.0081    | 0.0072    | 0.0064    | 0.0057    | 0.0051    | 0.0046    | 0.0041    | 0.0036    |
| <b>Nom. Area in Circular Mils</b> |             | 79.20     | 64        | 50.40     | 39.70     | 31.40     | 25        | 20.30     | 16        | 12.30     |

| <b>Magnet Wire Sizes (awg)</b>    |             | <b>40</b> | <b>41</b> | <b>42</b> | <b>43</b> | <b>44</b> | <b>45</b> | <b>46</b> |  |  |
|-----------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
|                                   | <i>Min.</i> | 0.0030    | 0.0027    | 0.0024    | 0.0021    | 0.0019    | 0.0017    | 0.0015    |  |  |
| <i>Diameter-Ins.</i>              | <i>Nom.</i> | 0.0031    | 0.0028    | 0.0025    | 0.0022    | 0.0020    | 0.0018    | 0.0016    |  |  |
|                                   | <i>Max.</i> | 0.0032    | 0.0029    | 0.0026    | 0.0023    | 0.0021    | 0.0018    | 0.0016    |  |  |
| <b>Nom. Area in Circular Mils</b> |             | 9.61      | 7.84      | 6.25      | 4.84      | 4         | 3.10      | 2.46      |  |  |