

HM Wire International, Inc.

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Bondable Wire Grades (Overall Dimensions)

| Type | Base Insulation | Overall Diameter |
|--------------|----------------------------------|----------------------------------|
| 0 Bare | Equal to single build Min/Nom | Equal to Maximum single build |
| 1 Grade 1 | Equal to single build | Equal to heavy build |
| 2 Grade 2 | Equal to heavy build | Equal to triple build |

Bondable Magnet Wire

| SIZE AWG | Type 0 | | | | | | Type 1 | | | Type 2 | | |
|-------------|--------------------|--------|--------|-------|-------|-------|--|--|----------------------------------|--|--|----------------------------------|
| | Bare Wire Diameter | | | | | | Wall Build Base Coat Grade 1 | Wall Build Bond Coat Grade 1 | Over- all Diam. Grade 1 | Wall Build Base Coat Grade 2 | Wall Build Bond Coat Grade 2 | Over- all Diam. Grade 2 |
| | | | | | | | | | | | | |
| | Inch | Inch | Inch | mm | mm | mm | Min. In | Min. In | Max. In | Min. In | Min. In | Max. In |
| 50 | 0.00099 | -- | -- | 0.025 | -- | -- | 0.0001 | 0.0001 | 0.0014 | 0.0002 | 0.0001 | 0.00160 |
| 49 | 0.00111 | -- | -- | 0.028 | -- | -- | 0.0001 | 0.0001 | 0.0015 | 0.0002 | 0.0001 | 0.00170 |
| 48 | 0.00124 | -- | -- | 0.032 | -- | -- | 0.0001 | 0.0001 | 0.0017 | 0.0002 | 0.0001 | 0.00185 |
| 47 | 0.00140 | -- | -- | 0.036 | -- | -- | 0.0001 | 0.0001 | 0.0019 | 0.0003 | 0.0001 | 0.0021 |
| 46 | 0.00157 | -- | -- | 0.040 | -- | -- | 0.0002 | 0.0001 | 0.0021 | 0.0003 | 0.0001 | 0.0024 |
| 45 | 0.00176 | -- | -- | 0.045 | -- | -- | 0.0002 | 0.0001 | 0.0024 | 0.0004 | 0.0001 | 0.0027 |
| 44 | 0.0020 | 0.0019 | 0.0021 | 0.051 | 0.048 | 0.054 | 0.0002 | 0.0001 | 0.0027 | 0.0004 | 0.0001 | 0.0030 |
| 43 | 0.0022 | 0.0021 | 0.0023 | 0.056 | 0.053 | 0.058 | 0.0002 | 0.0001 | 0.0029 | 0.0004 | 0.0001 | 0.0032 |
| 42 | 0.0025 | 0.0024 | 0.0026 | 0.064 | 0.061 | 0.067 | 0.0002 | 0.0002 | 0.0033 | 0.0005 | 0.0002 | 0.0036 |
| 41 | 0.0028 | 0.0027 | 0.0029 | 0.071 | 0.068 | 0.074 | 0.0003 | 0.0002 | 0.0036 | 0.0005 | 0.0002 | 0.0040 |
| 40 | 0.0031 | 0.0030 | 0.0032 | 0.079 | 0.076 | 0.082 | 0.0003 | 0.0002 | 0.0040 | 0.0005 | 0.0002 | 0.0043 |
| 39 | 0.0035 | 0.0034 | 0.0036 | 0.089 | 0.086 | 0.092 | 0.0003 | 0.0002 | 0.0045 | 0.0006 | 0.0002 | 0.0048 |
| 38 | 0.0040 | 0.0039 | 0.0041 | 0.102 | 0.099 | 0.106 | 0.0003 | 0.0002 | 0.0051 | 0.0006 | 0.0002 | 0.0054 |

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Bondable Magnet Wire

| SIZE AWG | Type 0 | | | | | | Type 1 | | | Type 2 | | |
|-------------|--------------------|--------|--------|-------|-------|---------|---------------|---------------|-----------------------|---------------|---------------|-----------------------|
| | Bare Wire Diameter | | | | | | Wall Build | Wall Build | Over- all Diam. | Wall Build | Wall Build | Over- all Diam. |
| | | | | | | | Base Coat | Bond Coat | | Base Coat | Bond Coat | |
| | Nom. | Min. | Max. | Nom. | Min. | Max. | Grade 1 | Grade 1 | Grade 1 | Grade 2 | Grade 2 | Grade 2 |
| Inch | Inch | Inch | mm | mm | mm | Min. In | Min. In | Max. In | Min. In | Min. In | Max. In | |
| 37 | 0.0045 | 0.0043 | 0.0046 | 0.114 | 0.111 | 0.117 | 0.0004 | 0.0003 | 0.0057 | 0.0007 | 0.0002 | 0.0060 |
| 36 | 0.0050 | 0.0049 | 0.0051 | 0.127 | 0.124 | 0.130 | 0.0004 | 0.0003 | 0.0063 | 0.0007 | 0.0003 | 0.0067 |
| 35 | 0.0056 | 0.0055 | 0.0057 | 0.142 | 0.139 | 0.145 | 0.0004 | 0.0003 | 0.0070 | 0.0008 | 0.0003 | 0.0074 |
| 34 | 0.0063 | 0.0062 | 0.0064 | 0.160 | 0.157 | 0.163 | 0.0005 | 0.0003 | 0.0078 | 0.0009 | 0.0003 | 0.0082 |
| 33 | 0.0071 | 0.0070 | 0.0072 | 0.180 | 0.177 | 0.183 | 0.0005 | 0.0003 | 0.0088 | 0.0010 | 0.0003 | 0.0092 |
| 32 | 0.0080 | 0.0079 | 0.0081 | 0.203 | 0.200 | 0.206 | 0.0006 | 0.0004 | 0.0098 | 0.0011 | 0.0004 | 0.0103 |
| 31 | 0.0089 | 0.0088 | 0.0090 | 0.226 | 0.223 | 0.229 | 0.0006 | 0.0004 | 0.0108 | 0.0012 | 0.0004 | 0.0114 |
| 30 | 0.0100 | 0.0099 | 0.0101 | 0.254 | 0.251 | 0.257 | 0.0007 | 0.0004 | 0.0119 | 0.0013 | 0.0004 | 0.0128 |
| 29 | 0.0113 | 0.0112 | 0.0114 | 0.287 | 0.284 | 0.290 | 0.0007 | 0.0004 | 0.0133 | 0.0015 | 0.0004 | 0.0141 |
| 28 | 0.0126 | 0.0125 | 0.0127 | 0.320 | 0.317 | 0.323 | 0.0008 | 0.0005 | 0.0147 | 0.0016 | 0.0005 | 0.0155 |
| 27 | 0.0142 | 0.0141 | 0.0143 | 0.361 | 0.357 | 0.365 | 0.0008 | 0.0005 | 0.0165 | 0.0016 | 0.0005 | 0.0173 |
| 26 | 0.0159 | 0.0157 | 0.0161 | 0.404 | 0.400 | 0.408 | 0.0009 | 0.0005 | 0.0182 | 0.0017 | 0.0005 | 0.0191 |
| 25 | 0.0179 | 0.0177 | 0.0181 | 0.455 | 0.450 | 0.460 | 0.0009 | 0.0005 | 0.0203 | 0.0018 | 0.0005 | 0.0212 |
| 24 | 0.0201 | 0.0199 | 0.0203 | 0.511 | 0.506 | 0.516 | 0.0010 | 0.0005 | 0.0227 | 0.0019 | 0.0005 | 0.0236 |
| 23 | 0.0226 | 0.0224 | 0.0228 | 0.574 | 0.568 | 0.580 | 0.0010 | 0.0005 | 0.0253 | 0.0020 | 0.0005 | 0.0263 |
| 22 | 0.0253 | 0.0250 | 0.0256 | 0.643 | 0.637 | 0.649 | 0.0011 | 0.0005 | 0.0281 | 0.0021 | 0.0005 | 0.0292 |
| 21 | 0.0285 | 0.0282 | 0.0288 | 0.724 | 0.717 | 0.731 | 0.0011 | 0.0005 | 0.0315 | 0.0022 | 0.0005 | 0.0326 |
| 20 | 0.0320 | 0.0317 | 0.0320 | 0.813 | 0.805 | 0.821 | 0.0012 | 0.0005 | 0.0351 | 0.0024 | 0.0005 | 0.0363 |
| 19 | 0.0359 | 0.0355 | 0.0363 | 0.912 | 0.903 | 0.921 | 0.0012 | 0.0006 | 0.0391 | 0.0025 | 0.0006 | 0.0404 |
| 18 | 0.0403 | 0.0399 | 0.0407 | 1.024 | 1.014 | 1.034 | 0.0013 | 0.0006 | 0.0437 | 0.0026 | 0.0006 | 0.0450 |
| 17 | 0.0453 | 0.0448 | 0.0458 | 1.151 | 1.139 | 1.163 | 0.0014 | 0.0006 | 0.0488 | 0.0028 | 0.0006 | 0.0502 |
| 16 | 0.0508 | 0.0503 | 0.0513 | 1.290 | 1.277 | 1.303 | 0.0014 | 0.0006 | 0.0545 | 0.0029 | 0.0006 | 0.0560 |
| 15 | 0.0571 | 0.0565 | 0.0577 | 1.450 | 1.435 | 1.465 | 0.0015 | 0.0006 | 0.0610 | 0.0030 | 0.0006 | 0.0625 |
| 14 | 0.0641 | 0.0635 | 0.0647 | 1.628 | 1.612 | 1.644 | 0.0016 | 0.0006 | 0.0682 | 0.0032 | 0.0006 | 0.0698 |