Litz constructions Types 1 through 6 are all designed to be round and vary from a simple bunch of conductors (Type 1) to complex designs utilizing multiple cores and several manufacturing operations (Type 6).

The smaller constructions of Litz Types 1 and 2 are typically used in high Q circuitry, such as toroidal coils and transformers. The larger Type 2 and 3 Litz designs have greater current carrying capacities necessary for high frequency power supply, inverter and grounding applications. Type 4, 5 and 6 Litz constructions all utilize at least one inert core and are used primarily in tuning circuitry for high power radio transmitters.

### Recommended Operating Frequency - 60 Hz to 1 kHz

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<th>Construction Type</th>
<th>Outer Insulation</th>
<th>Nominal OD</th>
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<th>Direct Current Resistance OHM/1000 FT</th>
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### Recommended Operating Frequency - 1 Hz to 10 kHz

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<th>Film Coating</th>
<th>Construction Type</th>
<th>Outer Insulation</th>
<th>Nominal OD</th>
<th>Nominal LBS/1000 FT</th>
<th>Direct Current Resistance OHM/1000 FT</th>
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1. S = single-film coating thickness
2. H = heavy-film coating thickness
3. SN = single nylon serving
4. SNB = single nylon braid
5. PVC = extruded polyvinylchloride

^ Not for specification purposes.

All measurements are in inches unless otherwise stated.
### Round Litz, continued

<table>
<thead>
<tr>
<th>Equivalent AWG</th>
<th>Circular Mil Area</th>
<th>Number of Wires</th>
<th>AWG of Wire</th>
<th>Film Coating</th>
<th>Construction Type</th>
<th>Outer Insulation</th>
<th>Nominal OD</th>
<th>Nominal LBS/1000 FT</th>
<th>Direct Current Resistance OHMS/1000 FT^</th>
<th>Construction</th>
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| 30 | 100 | 4 | 36 | S | 1 | - | 0.013 | 0.318 | 110.100 | 4/36 |
| 28 | 175 | 7 | 36 | S | 1 | - | 0.017 | 0.557 | 62.900 | 7/36 |
| 26 | 250 | 10 | 36 | S | 1 | SN | 0.023 | 0.839 | 44.050 | 10/36 |
| 24 | 400 | 16 | 36 | S | 1 | SN | 0.029 | 1.340 | 27.530 | 16/36 |
| 22 | 675 | 27 | 36 | S | 1 | SN | 0.037 | 2.220 | 16.320 | 27/36 |
| 20 | 1025 | 41 | 36 | S | 1 | SN | 0.044 | 3.350 | 10.740 | 41/36 |
| 18 | 1625 | 65 | 36 | S | 2 | SN | 0.059 | 5.440 | 6.980 | 5X13/36 |
| 16 | 2625 | 105 | 36 | S | 2 | SN | 0.074 | 8.740 | 4.320 | 3X5X36 |
| 14 | 4125 | 165 | 36 | S | 2 | SN | 0.092 | 13.660 | 2.750 | 5X33/36 |
| 12 | 6625 | 265 | 36 | S | 2 | SN | 0.116 | 21.830 | 1.710 | 5X53/36 |
| 10 | 10500 | 420 | 36 | S | 2 | DN | 0.158 | 35.630 | 1.110 | 5X3X28/36 |
| 8 | 16500 | 660 | 36 | S | 2 | DN | 0.197 | 59.010 | 0.710 | 5X3X44/36 |
| 6 | 26250 | 1050 | 36 | S | 2 | DN | 0.247 | 92.450 | 0.450 | 5X5X42/36 |
| 4 | 45000 | 1800 | 36 | S | 2 | DN | 0.322 | 156.420 | 0.260 | 5X5X72/36 |
| 2 | 66500 | 2660 | 36 | S | 2 | DN | 0.373 | 228.670 | 0.180 | 7X5X76/36 |
| 1 | 84000 | 3360 | 36 | S | 5 | SNB | 0.548 | 318.000 | 0.140 | 6(5X4X28/36) |
| 1/0 | 108000 | 4320 | 36 | S | 5 | SNB | 0.655 | 420.000 | 0.109 | 9(5X3X28/36) |
| 2/0 | 135000 | 5400 | 36 | S | 5 | SNB | 0.728 | 522.000 | 0.087 | 9(5X4X40/36) |
| 3/0 | 171000 | 6840 | 36 | S | 5 | SNB | 0.870 | 682.000 | 0.069 | 12(5X3X38/36) |
| 4/0 | 211500 | 8460 | 36 | S | 5 | SNB | 0.962 | 840.000 | 0.055 | 12(5X3X47/36) |

1. S = single-film coating thickness
2. H = heavy-film coating thickness
3. SN = single nylon serving
4. DN = double nylon serving
5. SNB = single nylon braid
6. PVC = extruded polyvinylchloride

^ Not for specification purposes.

All measurements are in inches unless otherwise stated.
Round Litz, continued

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<th>Equivalent AWG</th>
<th>Circular Mil Area</th>
<th>Number of Wires</th>
<th>AWG of Wire</th>
<th>Film Coating¹</th>
<th>Construction Type</th>
<th>Outer Insulation²</th>
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<th>Nominal LBS/1000 FT</th>
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1. S = single-film coating thickness
H = heavy-film coating thickness
2. SN = single nylon serving
DN = double nylon serving
SNB = single nylon braid
PVC = extruded polyvinylchloride

All measurements are in inches unless otherwise stated.

RECOMMENDED OPERATING FREQUENCY - 100 KHZ TO 200 KHZ

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¹ Not for specification purposes.

All measurements are in inches unless otherwise stated.
### Round Litz, continued

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| **RECOMMENDED OPERATING FREQUENCY - 350 KHZ TO 850 KHZ** | | | | | | | | | | |
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| 34 | 40 | 10 | 44 | S | 1 | SN | .011 | .156 | 293.050 | 10/44 |
| 32 | 64 | 16 | 44 | S | 1 | SN | .013 | .230 | 183.150 | 16/44 |
| 30 | 100 | 25 | 44 | S | 1 | SN | .016 | .342 | 117.220 | 25/44 |
| 28 | 160 | 40 | 44 | S | 1 | SN | .019 | .529 | 73.260 | 40/44 |
| 26 | 264 | 66 | 44 | S | 2 | SN | .024 | .874 | 45.290 | 3/22/44 |
| 24 | 420 | 105 | 44 | S | 2 | SN | .029 | 1.380 | 28.470 | 3/35/44 |
| 22 | 640 | 160 | 44 | S | 2 | SN | .035 | 2.060 | 18.680 | 5/32/44 |
| 20 | 1020 | 255 | 44 | S | 2 | SN | .044 | 3.250 | 11.720 | 5/51/44 |
| 18 | 1620 | 405 | 44 | S | 2 | SN | .058 | 5.310 | 7.600 | 5X3/27/44 |
| 16 | 2800 | 650 | 44 | S | 2 | SN | .072 | 8.470 | 4.740 | 5X5/26/44 |
| 14 | 4200 | 1050 | 44 | S | 2 | SN | .094 | 13.870 | 2.960 | 5XM4/2/44 |
| 12 | 6800 | 1650 | 44 | S | 2 | DN | .120 | 22.010 | 1.920 | 5XM3/22/44 |
| 10 | 10500 | 2625 | 44 | S | 2 | DN | .149 | 34.810 | 1.210 | 5X5X3/35/44 |
| 8 | 16800 | 4200 | 44 | S | 5 | DN | .226 | 62.000 | .747 | 6(5X5/28/44) |

1. S = single-film coating thickness
2. H = heavy-film coating thickness
3. SN = single nylon serving
4. DN = double nylon serving
5. SNB = single nylon braid
6. PVC = extruded polyvinylchloride

All measurements are in inches unless otherwise stated.

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**Not for specification purposes.**

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## Round Litz, continued

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<th>Number of Wires</th>
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<th>Construction Type</th>
<th>Outer Insulation</th>
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<th>Nominal LBS/1000 FT</th>
<th>Nominal OHMS/1000 FT^</th>
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1. S = single-film coating thickness  
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