Lee Spring’s Torsion Springs have been carefully designed to represent the most commonly used specifications in both inch and metric sizes.

The Torsion Spring selection is divided into seven categories by Free Position of Legs (90°, 120°, 180°, 210°, 270°, 300°, 360°) and both left-hand and right-hand wound springs are shown.

**Direction of Wind:**

Good design dictates that torsion springs should be used in the direction that winds the coil. When ordering, select either LTL (left-hand wound) or LTR (right-hand wound) for required application.

**Mandrel Size:**

Generally, torsion springs are used over a mandrel (shaft or arbor). The column “Suggested Mandrel Size”, allows approximately a 10% clearance for the various deflections shown in examples below. If you require greater deflection, a reduction in mandrel size is suggested.

Lee Spring can manufacture custom torsion springs to your specifications. Contact us today!
General Notes
1. Lengths of legs are shown as "A" in sketches below.
2. It is to be noted that "R" (radius in inches) where force is applied is always 1/2 of "A" (Length of Leg). Dotted lines of legs show loaded position where values of "T" (Torque) will be achieved at "R" (Radius).
3. To translate torque values to direct load:
   Use Formula $P = \frac{T}{R}$

   Example: Part LTL 012 A 01
   What is the load where $R = .187$?
   Using $P = \frac{T}{R} = \frac{.050}{.187} = .267$ lbs.
4. To calculate torque values other than those listed, a direct proportion may be used.

   Example: Part LTL 012 A 01
   Torque shown in catalog listing is .050 inch-lbs. for 90° deflection (for Music Wire); therefore, torque at 45° deflection would be .025 inch-lbs.
5. Inspection of Load – Loads should always be checked at the Radius ("R" value).

Specifications
Material:
- Music Wire
- 302 Stainless Steel
- 316 Stainless Steel

Plating:
Zinc Plated .0002”
(AMT B-633)
Torsion springs of wire size 0.025” and less may be furnished using pre-coated wire at Lee Spring’s discretion without supplemental zinc plating.

Passivation:
(AMT A-967)
(Mil. Spec. No. QQ-P-35)
(Type 316 Stainless also ultrasonically cleaned)

Tolerances on Torque: ± 10%

Tolerances on Outside Diameter

<table>
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<tr>
<th>Inches</th>
<th>Millimeters</th>
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<td>.004&quot; – .005&quot;</td>
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<tr>
<td>.126&quot; – .200&quot;</td>
<td>.005&quot; – .010&quot;</td>
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<td>.201&quot; – .300&quot;</td>
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<td>Over 2.000&quot;</td>
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Tolerances on Free Position
From 3 to 10 total coils (Incl.) ± 10° • From 11 to 20 total coils (Incl.) ± 15°
### Torsion Spring Series

#### Guide to using tables

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 90° DEFLECTION (T)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX. (L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
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#### How to Determine Price

1. Select the spring you want by LEE STOCK NUMBER.
2. Read across to the last column PRICE GROUP to obtain the price code: when applicable, select the price code that corresponds to the material type required.
3. Refer to the PRICE GROUP in the appropriate pricing chart by spring type located in the back of this catalog for pricing up to 199 pieces of an item.
4. Prices subject to change without notice.

**FREE SHIPPING AVAILABLE**
See Price List in back of catalog for details.
## Torsion Springs: 90° Free Position (Inch)

Music Wire (Plated**) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

LTL - Left Hand Wound; LTR - Right Hand Wound

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<tr>
<th>LEE NUMBER</th>
<th>OUTSIDE DIA</th>
<th>WIRE DIAM</th>
<th>TORQUE @ 90° DEFLECTION (T) (See Footnote)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX.</th>
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**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless; “S316” for Type 316 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933). For Type 316 Stainless, the Torque and Deflection should be reduced approximately 65%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note on Page 5 under Finish.*
<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 90° DEFLECTION (T)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX.(L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
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<td>25.40</td>
<td>15/32 (.469)</td>
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<tr>
<td>LTL085N 01</td>
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<td>.085</td>
<td>2.16</td>
<td>12.861</td>
<td>148.18</td>
<td>1.250</td>
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<td>.070</td>
<td>1.78</td>
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<td>86.41</td>
<td>1.000</td>
<td>25.40</td>
<td>17/32 (.531)</td>
<td>13.49</td>
</tr>
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</table>

**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless; “S316” for Type 316 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933). For Type 316 Stainless, the Torque and Deflection should be reduced approximately 65%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires .025" and less are Instrument Torsion, see note on Page 5 under Finish 

Lee Spring • leespring.com • Call: 888-SPRINGS (888-777-4647) • Fax: 888-426-6655
## Torsion Springs: 90° Free Position (Inch)

Music Wire (Plated**) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

**LTL** - Left Hand Wound; **LTR** - Right Hand Wound

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 90° DEFORMATION (T) (See Footnote)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX.(L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
</tr>
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<tbody>
<tr>
<td>LTL075M 07</td>
<td>.810 MM</td>
<td>.075 MM</td>
<td>106.03</td>
<td>1.00</td>
<td>25.40</td>
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<td>50.80</td>
<td>0.319</td>
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<tr>
<td>LTL078N 07</td>
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<td>.078 MM</td>
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<td>0.332</td>
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<td>.105 MM</td>
<td>241.95</td>
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<td>3.50</td>
<td>88.90</td>
<td>0.656</td>
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<tr>
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<td>.871 MM</td>
<td>.095 MM</td>
<td>197.57</td>
<td>1.50</td>
<td>38.10</td>
<td>3.00</td>
<td>76.20</td>
<td>0.509</td>
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<tr>
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<td>148.17</td>
<td>1.25</td>
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<td>63.50</td>
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<td>.978 MM</td>
<td>.115 MM</td>
<td>322.60</td>
<td>2.00</td>
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<td>4.00</td>
<td>101.60</td>
<td>0.719</td>
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<tr>
<td>LTL125S 01</td>
<td>.989 MM</td>
<td>.125 MM</td>
<td>368.69</td>
<td>2.00</td>
<td>50.80</td>
<td>4.00</td>
<td>101.60</td>
<td>0.906</td>
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<td>1.102 MM</td>
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<td>460.86</td>
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<td>50.80</td>
<td>4.00</td>
<td>101.60</td>
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<td>.095 MM</td>
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<td>50.80</td>
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<td>101.60</td>
<td>0.656</td>
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<tr>
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<td>1.450 MM</td>
<td>.115 MM</td>
<td>322.60</td>
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<td>50.80</td>
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<td>0.709</td>
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</table>

**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless; “S316” for Type 316 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933). For Type 316 Stainless, the Torque and Deflection should be reduced approximately 65%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note on Page 5 under Finish.
## Torsion Springs: 120° Free Position (Inch)

Music Wire (Plated**) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

**LTL - Left Hand Wound; LTR - Right Hand Wound**

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 120° DEFLECTION (T)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX. (L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTL016A 10</td>
<td>.190</td>
<td>.016 .41</td>
<td>.110</td>
<td>.127</td>
<td>.375</td>
<td>.93</td>
<td>.159</td>
<td>1</td>
<td>M S S316</td>
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<tr>
<td>LTR016A 10</td>
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<td>.020 .51</td>
<td>.180</td>
<td>.207</td>
<td>.500</td>
<td>1.27</td>
<td>.250</td>
<td>3</td>
<td>J K AA</td>
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<tr>
<td>LTL024C 10</td>
<td>.362</td>
<td>.024 .61</td>
<td>.280</td>
<td>.323</td>
<td>.500</td>
<td>1.27</td>
<td>.250</td>
<td>3/16 (.188)</td>
<td>K L AA</td>
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<tr>
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<td>.029 .74</td>
<td>.470</td>
<td>.542</td>
<td>.500</td>
<td>1.27</td>
<td>.250</td>
<td>3/16 (.188)</td>
<td>K L AB</td>
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<tr>
<td>LTL032C 10</td>
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<td>.032 .81</td>
<td>.690</td>
<td>7.95</td>
<td>.500</td>
<td>1.27</td>
<td>.250</td>
<td>1/4 (.250)</td>
<td>K L AA</td>
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<td>.035 .89</td>
<td>.960</td>
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<td>1.58</td>
<td>.270</td>
<td>1/2</td>
<td>L M M AD</td>
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<tr>
<td>LTL042D 10</td>
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<td>.042 1.07</td>
<td>1.550</td>
<td>17.86</td>
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<td>25.40</td>
<td>.375</td>
<td>5/16 (.313)</td>
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<tr>
<td>LTL038E 10</td>
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<td>.038 .97</td>
<td>1.210</td>
<td>13.94</td>
<td>.625</td>
<td>15.88</td>
<td>.270</td>
<td>3/8 (.375)</td>
<td>P R AE</td>
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<tr>
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<td>.040 1.02</td>
<td>1.480</td>
<td>17.05</td>
<td>.625</td>
<td>15.88</td>
<td>.270</td>
<td>3/8 (.375)</td>
<td>R S AE</td>
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<tr>
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<td>.049 1.24</td>
<td>2.450</td>
<td>28.23</td>
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<td>25.40</td>
<td>.375</td>
<td>1/2 (.500)</td>
<td>R S AL</td>
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<tr>
<td>LTR049E 10</td>
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<td>.055 1.40</td>
<td>3.160</td>
<td>36.41</td>
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<td>25.40</td>
<td>.375</td>
<td>1/2 (.500)</td>
<td>R S AP</td>
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<tr>
<td>LTL059E 10</td>
<td>.572</td>
<td>.059 1.50</td>
<td>4.150</td>
<td>47.81</td>
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<td>.375</td>
<td>1/2 (.500)</td>
<td>S T AR</td>
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<td>.063 1.59</td>
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<td>25.40</td>
<td>.375</td>
<td>1/2 (.500)</td>
<td>T U AS</td>
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<tr>
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<td>.072 1.83</td>
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<td>81.92</td>
<td>1.000</td>
<td>25.40</td>
<td>.375</td>
<td>1/2 (.500)</td>
<td>Y Z</td>
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<tr>
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<td>.080 2.03</td>
<td>9.390</td>
<td>108.19</td>
<td>1.250</td>
<td>31.75</td>
<td>.573</td>
<td>1/2 (.500)</td>
<td>AA AB</td>
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<tr>
<td>LTL085G 10</td>
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<td>.085 2.16</td>
<td>11.110</td>
<td>128.00</td>
<td>1.250</td>
<td>31.75</td>
<td>.573</td>
<td>5/8 (.625)</td>
<td>5.17 AB AC</td>
</tr>
<tr>
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<td>14.940</td>
<td>172.13</td>
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<td>38.10</td>
<td>.564</td>
<td>5/8 (.625)</td>
<td>5.17 AB AC</td>
</tr>
<tr>
<td>LTL095G 10</td>
<td>.949</td>
<td>.095 2.41</td>
<td>17.630</td>
<td>203.12</td>
<td>1.500</td>
<td>38.10</td>
<td>.564</td>
<td>5/8 (.625)</td>
<td>5.17 AB AC</td>
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<tr>
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<td>.105 2.67</td>
<td>21.280</td>
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<td>1.750</td>
<td>44.45</td>
<td>.648</td>
<td>3/4 (.750)</td>
<td>5.17 AD AE</td>
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<td>27.090</td>
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<td>2.000</td>
<td>50.80</td>
<td>.691</td>
<td>3/4 (.750)</td>
<td>5.17 AD AE</td>
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<tr>
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<td>4.00 101.60</td>
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<td>50.80</td>
<td>1.030</td>
<td>4.00 101.60</td>
<td>6.17 AE AG</td>
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*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note on Page 5 under Finish
## TORSION SPRINGS: 180° FREE POSITION (INCH)

Music Wire (Plated**) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

LTL - Left Hand Wound; LTR - Right Hand Wound

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 180° DEFLECTION (T) (See Footnote)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX.(L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTL012A 02</td>
<td>.110</td>
<td>.020</td>
<td>.340</td>
<td>.188</td>
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<tr>
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<td>.250</td>
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<tr>
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<td>.480</td>
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<td>0.750</td>
<td>19.05</td>
<td>0.189</td>
<td>5.01</td>
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<td>LTL020 02</td>
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<td>.040</td>
<td>.630</td>
<td>.250</td>
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<td>19.05</td>
<td>0.189</td>
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<td>.021</td>
<td>.370</td>
<td>.250</td>
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<td>19.05</td>
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<td>.200</td>
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<td>19.05</td>
<td>0.075</td>
<td>1.91</td>
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<tr>
<td>LTL01C 04</td>
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<td>.460</td>
<td>.150</td>
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<td>19.05</td>
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<td>2.77</td>
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<td>.020</td>
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<td>.200</td>
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<td>.250</td>
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<td>25.40</td>
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<td>.125</td>
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<td>2.29</td>
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<td>.023</td>
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<td>.330</td>
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<td>31.75</td>
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<td>.025</td>
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<td>.420</td>
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**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless; “S316” for Type 316 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933). For Type 316 Stainless, the Torque and Deflection should be reduced approximately 65%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

**Note:** Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note on Page 5 under Finish
<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 180° DEFLECTION (T) (See Footnote)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX.(L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
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<td>.625 14.75</td>
<td>1/4 (.250)</td>
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<td>.040 1.02</td>
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<td>.625 17.28</td>
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<td>.625 51.85</td>
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<td>.625 24.77</td>
<td>27/64 (.422)</td>
<td>10.72 2.000 50.80</td>
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<td>.625 63.37</td>
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<td>.625 31.68</td>
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<td>.070 1.78</td>
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<td>.625 40.33</td>
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<td>9.203</td>
<td>.625 106.03</td>
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<td>.078 1.98</td>
<td>10.450</td>
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<td>.625 106.03</td>
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<td>.0780 19.81</td>
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**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

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*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note on Page 5 under Finish.*

Lee Spring • leespring.com • Call: 888-SPRINGS (888-777-4647) • Fax: 888-426-6655
## Torsion Springs: 180° Free Position (Inch)

**Music Wire (Plated**) or 302 Stainless Steel** *(Passivated)* or 316 Stainless Steel *(Passivated Ultrasonically Cleaned)*

*LTL - Left Hand Wound; LTR - Right Hand Wound*

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 180° DEFLECTION (T)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX. (L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
</tr>
</thead>
<tbody>
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<td>LTL070M 04</td>
<td>.810</td>
<td>.070</td>
<td>7.500</td>
<td>1.000</td>
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<td>15/32 (.594)</td>
<td>2.000</td>
<td>50.80</td>
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<td>.070</td>
<td>12.861</td>
<td>1.250</td>
<td>31.75</td>
<td>41/64 (.641)</td>
<td>2.500</td>
<td>63.50</td>
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<td>.095</td>
<td>17.148</td>
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<td>21/32 (.656)</td>
<td>3.000</td>
<td>76.20</td>
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<td>.095</td>
<td>21.000</td>
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<td>45/64 (.703)</td>
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<td>88.90</td>
<td>1.050</td>
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<td>.105</td>
<td>21.000</td>
<td>1.750</td>
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<td>49/64 (.766)</td>
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<td>101.60</td>
<td>1.150</td>
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<td>.095</td>
<td>21.000</td>
<td>1.750</td>
<td>44.45</td>
<td>47/64 (.734)</td>
<td>4.500</td>
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<td>1.150</td>
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<td>2.000</td>
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<td>49/64 (.766)</td>
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<td>101.60</td>
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<td>50.80</td>
<td>27/32 (.844)</td>
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<td>101.60</td>
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<td>33/32 (1.064)</td>
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<td>13/32 (1.094)</td>
<td>8.000</td>
<td>101.60</td>
<td>1.150</td>
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</table>

**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

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*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note on Page 5 under Finish.
### Torsion Springs: 210° Free Position (Inch)

**Music Wire (Plated***) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

LTL - Left Hand Wound; LTR - Right Hand Wound

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Outside Diameter</th>
<th>Wire Diameter</th>
<th>Torque @ 210° (T)</th>
<th>Radius</th>
<th>Suggested Mandrel Size</th>
<th>Length of Leg (A)</th>
<th>Body Length Approx. (L)</th>
<th>Number of Cols</th>
<th>Price Group</th>
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<td>.016</td>
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<td>50.80</td>
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<td>.016</td>
<td>1.10</td>
<td>9.53</td>
<td>1/8</td>
<td>7.90</td>
<td>2.00</td>
<td>50.80</td>
<td>4.00</td>
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**Notes:**
- Type 302 may be substituted with Type 304 at Lee Spring's discretion.
- Wires 0.025" and less are Instrument Torsion, see note on Page 5 under Finish.

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**Special Instructions for Torsion Series**

**Stock Numbers:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless; “S316” for Type 316 Stainless.

**Pricing:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

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*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025" and less are Instrument Torsion, see note on Page 5 under Finish.*
### Torsion Springs: 270° Free Position (Inch)

**Music Wire (Plated***) or 302 Stainless Steel (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

**LTL** - Left Hand Wound; **LTR** - Right Hand Wound

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 270° DEFORMATION (T)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX. (L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
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<td>IN.-LB</td>
<td>KG-MM</td>
<td>IN. MM</td>
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<td>IN. MM</td>
<td>IN. MM</td>
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<td>IN. MM</td>
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<td>5/64 (.098)</td>
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**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless; “S316” for Type 316 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

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### TORSION SPRINGS: 270° FREE POSITION (INCH)

Music Wire (Plated***) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

**LTL** - Left Hand Wound; **LTR** - Right Hand Wound

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 270° DEFLECTION (T)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG APPROX (L)</th>
<th>BODY LENGTH</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
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**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

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### Torsion Springs: 270° Free Position (Inch)

**Music Wire (Plated**) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),**

**LTL - Left Hand Wound; LTR - Right Hand Wound**

<table>
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<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER IN.</th>
<th>WIRE DIAMETER MM</th>
<th>TORQUE @ 270° DEFORMATION KG-MM</th>
<th>RADIUS (R) IN.</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A) IN.</th>
<th>BODY LENGTH APPROX. IN.</th>
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<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
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**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless; “S316” for Type 316 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933). For Type 316 Stainless, the Torque and Deflection should be reduced approximately 65%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note on Page 5 under Finish
### Torsion Springs: 360° Free Position (Inch)

**Music Wire (Plated**) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

**LTL - Left Hand Wound; LTR - Right Hand Wound**

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<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 360° DEFLECTION (T) (See Footnote)</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDEL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX.(L)</th>
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- Lee Spring: leespring.com • Call: 888-SPRINGS (888-777-4647) • Fax: 888-426-6655
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<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE @ 360° DEFLECTION (T)</th>
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<td>1.500</td>
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<td>7/8 (0.875)</td>
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## TORSION SPRINGS: 360° FREE POSITION (INCH)

Music Wire (Plated**) or 302 Stainless Steel* (Passivated) or 316 Stainless Steel (Passivated Ultrasonically Cleaned),

LTL - Left Hand Wound; LTR - Right Hand Wound

### Table

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<tr>
<th>LEE STOCK NUMBER</th>
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<th>WIRE DIAMETER</th>
<th>TORQUE @ 360° DEFLECTION (T)</th>
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<th>BODY OF LEG APPROX. (L)</th>
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### Special Instructions for Torsion Series

**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless; “S316” for Type 316 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933). For Type 316 Stainless, the Torque and Deflection should be reduced approximately 65%-90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note on Page 5 under Finish.
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<th>STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE (T)</th>
<th>DEFLECTION TO RATED TORQUE</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX. (L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
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<td>.079</td>
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<tr>
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<td>.50</td>
<td>17.90</td>
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<td>787</td>
<td>2.5</td>
<td>.098</td>
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**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933). *Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. “**”Wires 0.025” and less are Instrument Torsion, see note Page 5 under Finish.*
### TORSION SPRINGS: 90° FREE POSITION (METRIC)

Music Wire (Plated**) or Stainless Steel (Passivated), LTM - Left Hand Wound; LTMR - Right Hand Wound

<table>
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<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER (MM IN.)</th>
<th>WIRE DIAMETER (MM IN.)</th>
<th>TORQUE (T)</th>
<th>DEFLECTION TO RATED TORQUE</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX. (L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
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<td>255.09</td>
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<td>20.0</td>
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<td>60</td>
<td>30.0</td>
<td>1.181</td>
<td>20.0 .787</td>
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</tbody>
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**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless.

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933).

*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note Page 5 under Finish.*
### TORSION SPRINGS: 180° FREE POSITION (METERIC)

**Music Wire (Plated**) or Stainless Steel (Passivated), LTM - Left Hand Wound; LTM R - Right Hand Wound**

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE (T)</th>
<th>DEFLECTION TO RATED TORQUE</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG APPROX. (L)</th>
<th>BODY LENGTH APPROX. (L)</th>
<th>NUMBER OF COILS</th>
<th>PRICE GROUP</th>
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**SPECIAL INSTRUCTIONS FOR TORSION SERIES**

- **STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless.
- **PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.
- **CALCULATIONS:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933).
- **Note:** Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **“Wires 0.025” and less are Instrument Torsion, see note Page 5 under Finish.**

**leeSpring.com** • Call: 888-SPRINGS (888-777-4647) • Fax: 888-426-6655
# Torsion Springs: 180° Free Position (Metric)

**Music Wire (Plated**) or Stainless Steel (Passivated), LTM - Left Hand Wound; LTMR - Right Hand Wound**

<table>
<thead>
<tr>
<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>TORQUE (T)</th>
<th>DEFLECTION TO RATED TORQUE</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG (A)</th>
<th>BODY LENGTH APPROX. (L)</th>
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**STOCK NUMBERS:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless.

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*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025" and less are Instrument Torsion, see note Page 5 under Finish."
### TORSION SPRINGS: 270° FREE POSITION (METRIC)

Music Wire (Plated**) or Stainless Steel (Passivated), LTML - Left Hand Wound; LTMR - Right Hand Wound

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<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER</th>
<th>WIRE DIAMETER</th>
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<th>DEFLECTION TO RATED TORQUE</th>
<th>RADIUS (R)</th>
<th>SUGGESTED MANDREL SIZE</th>
<th>LENGTH OF LEG APPROX. (L)</th>
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### Torsion Springs: 270° Free Position (Metric)

Music Wire (Plated**) or Stainless Steel (Passivated), LTM - Left Hand Wound; LTM R - Right Hand Wound

<table>
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<th>LEE STOCK NUMBER</th>
<th>OUTSIDE DIAMETER (IN.)</th>
<th>WIRE DIAMETER (IN.)</th>
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<th>DEFLECTION TO RATED TORQUE</th>
<th>RADIUS (R)</th>
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<th>BODY LENGTH APPROX. (L)</th>
<th>NUMBER OF COILS</th>
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**Special Instructions for Torsion Series**

**Stock Numbers:** Add “M” to end of Stock Number for Music Wire; “S” for Type 302 Stainless.

**Pricing:** See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

**Calculations:** Torque shown is for Music Wire. For Type 302 Stainless, multiply figures shown by (0.933).

*Note: Type 302 may be substituted with Type 304 at Lee Spring’s discretion. **Wires 0.025” and less are Instrument Torsion, see note Page 5 under Finish.

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Lee Spring  leespring.com  •  Call: 888-SPRINGS (888-777-4647) •  Fax: 888-426-6655
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**Torsion Springs:** 360° Free Position (Metric)

Music Wire (Plated**) or Stainless Steel (Passivated), LTM - Left Hand Wound; LTM R - Right Hand Wound
**TORSION SPRINGS: 360° FREE POSITION (METRIC)**

*Music Wire (Plated**) or Stainless Steel (Passivated), LTM - Left Hand Wound; LTM R - Right Hand Wound*

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