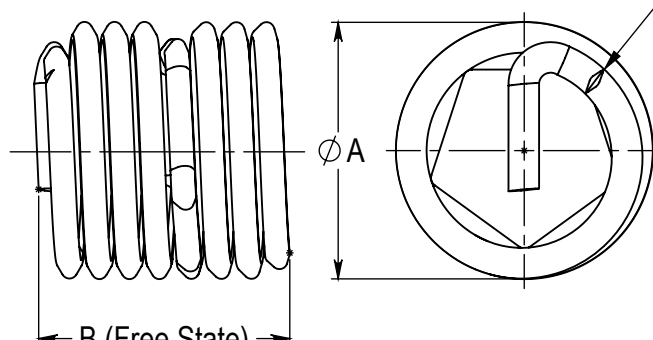
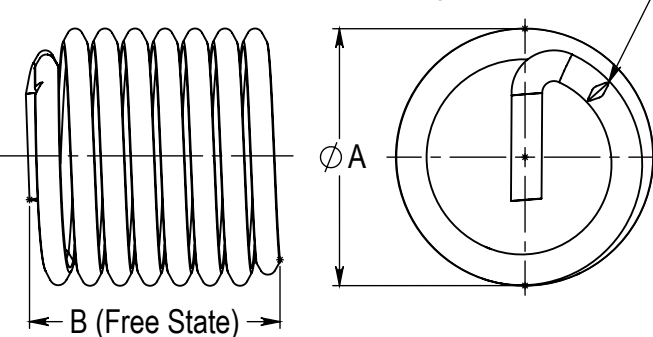


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For strip-feed packaged inserts, use "SF" at the end of the part number. Not available for all sizes and all plating options. Leave blank for bulk packaged inserts. 10. 304 Stainless Steel is the most popular wire material and meets AS7245 specification. TLF - 3 C - 0285 W SF <table><tr><th rowspan="3">Nominal Thread Size</th><th colspan="2">1</th><th>2</th><th>3</th><th colspan="5">4</th><th>5</th><th colspan="2">Free Outer Diameter (A)</th><th colspan="5">Number of Coils (B, see note 4)</th></tr><tr><th colspan="2">Insert Style</th><th rowspan="2">Size</th><th rowspan="2">Material</th><th colspan="5">Nominal Length</th><th rowspan="2">Finish</th><th rowspan="2">Min</th><th rowspan="2">Max</th><th colspan="5"></th></tr><tr><th>Locking</th><th>Non-Locking</th><th>1D</th><th>1.5D</th><th>2D</th><th>2.5D</th><th>3D</th><th>1D</th><th>1.5D</th><th>2D</th><th>2.5D</th><th>3D</th></tr><tr><td>3-56</td><td rowspan="23">TLF</td><td rowspan="23">TNF</td><td>03</td><td rowspan="26">B- Phosphor Bronze C- CRES Steel (304 Stainless Steel)¹⁰ N- Nitronic 60® M- Nimonic 90® T- Inconel X-750</td><td>0.099</td><td>0.148</td><td>0.198</td><td>0.248</td><td>0.297</td><td rowspan="23">Blank- No Finish W- Dry Film Lubricant Y- Cadmium V- Silver Plating A- Passivation P- Xylan B- Blue Dye G- Green Dye</td><td>0.131</td><td>0.146</td><td>3-3/8</td><td>5-5/8</td><td>8</td><td>10-3/8</td><td>12-5/8</td></tr><tr><td>4-48</td><td>04</td><td>0.112</td><td>0.168</td><td>0.224</td><td>0.280</td><td>0.336</td><td>0.147</td><td>0.162</td><td>3-3/8</td><td>5-5/8</td><td>7-7/8</td><td>10-1/4</td><td>12-1/2</td></tr><tr><td>6-40</td><td>06</td><td>0.138</td><td>0.207</td><td>0.276</td><td>0.345</td><td>0.414</td><td>0.173</td><td>0.193</td><td>3-1/2</td><td>6</td><td>8-3/8</td><td>10-3/4</td><td>13-1/4</td></tr><tr><td>8-36</td><td>2</td><td>0.164</td><td>0.246</td><td>0.328</td><td>0.410</td><td>0.492</td><td>0.204</td><td>0.224</td><td>3-7/8</td><td>6-1/2</td><td>9-1/8</td><td>11-5/8</td><td>14-1/4</td></tr><tr><td>10-32</td><td>3</td><td>0.190</td><td>0.285</td><td>0.380</td><td>0.475</td><td>0.570</td><td>0.236</td><td>0.256</td><td>4-1/8</td><td>6-7/8</td><td>9-1/2</td><td>12-1/4</td><td>14-7/8</td></tr><tr><td>1/4-28</td><td>4</td><td>0.250</td><td>0.375</td><td>0.500</td><td>0.625</td><td>0.750</td><td>0.306</td><td>0.326</td><td>5</td><td>8-1/4</td><td>11-3/8</td><td>14-1/2</td><td>17-5/8</td></tr><tr><td>5/16-24</td><td>5</td><td>0.312</td><td>0.469</td><td>0.625</td><td>0.781</td><td>0.938</td><td>0.380</td><td>0.400</td><td>5-1/2</td><td>8-7/8</td><td>12-1/4</td><td>15-5/8</td><td>19</td></tr><tr><td>3/8-24</td><td>6</td><td>0.375</td><td>0.562</td><td>0.750</td><td>0.938</td><td>1.125</td><td>0.448</td><td>0.468</td><td>6-7/8</td><td>11</td><td>15</td><td>19-1/8</td><td>23-1/8</td></tr><tr><td>7/16-20</td><td>7</td><td>0.438</td><td>0.656</td><td>0.875</td><td>1.094</td><td>1.312</td><td>0.524</td><td>0.549</td><td>6-5/8</td><td>10-5/8</td><td>14-5/8</td><td>18-1/2</td><td>22-1/2</td></tr><tr><td>1/2-20</td><td>8</td><td>0.500</td><td>0.750</td><td>1.000</td><td>1.250</td><td>1.500</td><td>0.592</td><td>0.617</td><td>7-7/8</td><td>12-3/8</td><td>16-7/8</td><td>21-3/8</td><td>25-7/8</td></tr><tr><td>9/16-18</td><td>9</td><td>0.562</td><td>0.844</td><td>1.125</td><td>1.406</td><td>1.688</td><td>0.666</td><td>0.691</td><td>8</td><td>12-1/2</td><td>17-1/8</td><td>21-3/4</td><td>26-1/4</td></tr><tr><td>5/8-18</td><td>10</td><td>0.625</td><td>0.938</td><td>1.250</td><td>1.562</td><td>1.875</td><td>0.733</td><td>0.758</td><td>9</td><td>14-1/8</td><td>19-1/4</td><td>24-1/4</td><td>29-3/8</td></tr><tr><td>3/4-16</td><td>12</td><td>0.750</td><td>1.125</td><td>1.500</td><td>1.875</td><td>2.250</td><td>0.876</td><td>0.901</td><td>9-3/4</td><td>15-1/8</td><td>20-5/8</td><td>26</td><td>31-1/2</td></tr><tr><td>7/8-14</td><td>14</td><td>0.875</td><td>1.312</td><td>1.750</td><td>2.188</td><td>2.625</td><td>1.021</td><td>1.051</td><td>9-7/8</td><td>15-1/2</td><td>21-1/8</td><td>26-5/8</td><td>32-1/4</td></tr><tr><td>1-12</td><td>16</td><td>1.000</td><td>1.500</td><td>2.000</td><td>2.500</td><td>3.000</td><td>1.169</td><td>1.199</td><td>9-5/8</td><td>15</td><td>20-1/2</td><td>26</td><td>31-1/2</td></tr><tr><td>1-1/8-12</td><td>18</td><td>1.125</td><td>1.688</td><td>2.250</td><td>2.812</td><td>3.375</td><td>1.304</td><td>1.334</td><td>11-1/8</td><td>17-1/4</td><td>23-3/8</td><td>29-1/2</td><td>35-3/4</td></tr><tr><td>1-1/4-12</td><td>20</td><td>1.250</td><td>1.875</td><td>2.500</td><td>3.125</td><td>3.750</td><td>1.439</td><td>1.469</td><td>12-1/2</td><td>19-3/8</td><td>26-1/4</td><td>33</td><td>39-7/8</td></tr><tr><td>1-3/8-12</td><td>22</td><td>1.375</td><td>2.062</td><td>2.750</td><td>3.438</td><td>4.125</td><td>1.575</td><td>1.610</td><td>13-3/4</td><td>21-3/8</td><td>28-7/8</td><td>36-1/2</td><td>44</td></tr><tr><td>1-1/2-12</td><td>24</td><td>1.500</td><td>2.250</td><td>3.000</td><td>3.750</td><td>4.500</td><td>1.710</td><td>1.745</td><td>15-1/4</td><td>23-1/2</td><td>31-5/8</td><td>39-7/8</td><td>48-1/8</td></tr></table> Notes: 1. For each threadsize, complete part number consists of combining columns 1-5 across each row. 2. The nominal length is a calculated number and cannot be used to measure the insert in the free state. It is the actual installed length of the insert plus 0.5 pitch (L_n = L_a + 0.5P), see column 4. 3. The nominal length of the insert is a function of the nominal thread size (1.5D x 0.190 in = 0.285 in). 4. The number of free coils is measured 90° from the tang. It is the total number of revolutions ± 0.25 coil. 5. Assembled length of insert is in accordance to NASM33537. 6. Locking torque specification conforms to NASM8846. 7. As applicable, inserts meet NASM21209, or NASM124651- NASM124850 specification. 8. When assembled in an STI thread, conforming to NASM33537 specification, the finished thread shall conform to FED-STD-H28/2, and shall accept external threads per MIL-S-7792 or AS8879. 9. For strip-feed packaged inserts, use "SF" at the end of the part number. Not available for all sizes and all plating options. Leave blank for bulk packaged inserts. 10. 304 Stainless Steel is the most popular wire material and meets AS7245 specification. KATO Fastening Systems, Inc., 11864 Fishing Point Dr., Newport News, VA 23606, www.katofastening.com <table><tr><td>Drawing No.</td><td>KSTD-004</td><td>Description</td><td colspan="4">KATO Tanged UNF Standard, Locking & Non-Locking Screw Thread Inserts (STI)</td><td rowspan="4"></td></tr><tr><td>Revision</td><td>New</td><td>Drawn By</td><td colspan="5">G. Patterson</td></tr><tr><td>Date</td><td>11-12-18</td><td>Approved By</td><td colspan="5">M. Oana</td></tr></table> THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS COVERED BY U.S. & INTERNATIONAL PATENTS. REPRODUCTION IN WHOLE, OR IN PART, WITHOUT THE EXPRESS WRITTEN CONSENT OF KATO FASTENING SYSTEMS, INC. IS STRICTLY PROHIBITED <tr><td colspan="2">E</td><td colspan="2">D</td><td colspan="2">C</td><td colspan="2">B</td><td colspan="3">A</td></tr>											Nominal Thread Size	1		2	3	4					5	Free Outer Diameter (A)		Number of Coils (B, see note 4)					Insert Style		Size	Material	Nominal Length					Finish	Min	Max						Locking	Non-Locking	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D	3-56	TLF	TNF	03	B- Phosphor Bronze C- CRES Steel (304 Stainless Steel) ¹⁰ N- Nitronic 60® M- Nimonic 90® T- Inconel X-750	0.099	0.148	0.198	0.248	0.297	Blank- No Finish W- Dry Film Lubricant Y- Cadmium V- Silver Plating A- Passivation P- Xylan B- Blue Dye G- Green Dye	0.131	0.146	3-3/8	5-5/8	8	10-3/8	12-5/8	4-48	04	0.112	0.168	0.224	0.280	0.336	0.147	0.162	3-3/8	5-5/8	7-7/8	10-1/4	12-1/2	6-40	06	0.138	0.207	0.276	0.345	0.414	0.173	0.193	3-1/2	6	8-3/8	10-3/4	13-1/4	8-36	2	0.164	0.246	0.328	0.410	0.492	0.204	0.224	3-7/8	6-1/2	9-1/8	11-5/8	14-1/4	10-32	3	0.190	0.285	0.380	0.475	0.570	0.236	0.256	4-1/8	6-7/8	9-1/2	12-1/4	14-7/8	1/4-28	4	0.250	0.375	0.500	0.625	0.750	0.306	0.326	5	8-1/4	11-3/8	14-1/2	17-5/8	5/16-24	5	0.312	0.469	0.625	0.781	0.938	0.380	0.400	5-1/2	8-7/8	12-1/4	15-5/8	19	3/8-24	6	0.375	0.562	0.750	0.938	1.125	0.448	0.468	6-7/8	11	15	19-1/8	23-1/8	7/16-20	7	0.438	0.656	0.875	1.094	1.312	0.524	0.549	6-5/8	10-5/8	14-5/8	18-1/2	22-1/2	1/2-20	8	0.500	0.750	1.000	1.250	1.500	0.592	0.617	7-7/8	12-3/8	16-7/8	21-3/8	25-7/8	9/16-18	9	0.562	0.844	1.125	1.406	1.688	0.666	0.691	8	12-1/2	17-1/8	21-3/4	26-1/4	5/8-18	10	0.625	0.938	1.250	1.562	1.875	0.733	0.758	9	14-1/8	19-1/4	24-1/4	29-3/8	3/4-16	12	0.750	1.125	1.500	1.875	2.250	0.876	0.901	9-3/4	15-1/8	20-5/8	26	31-1/2	7/8-14	14	0.875	1.312	1.750	2.188	2.625	1.021	1.051	9-7/8	15-1/2	21-1/8	26-5/8	32-1/4	1-12	16	1.000	1.500	2.000	2.500	3.000	1.169	1.199	9-5/8	15	20-1/2	26	31-1/2	1-1/8-12	18	1.125	1.688	2.250	2.812	3.375	1.304	1.334	11-1/8	17-1/4	23-3/8	29-1/2	35-3/4	1-1/4-12	20	1.250	1.875	2.500	3.125	3.750	1.439	1.469	12-1/2	19-3/8	26-1/4	33	39-7/8	1-3/8-12	22	1.375	2.062	2.750	3.438	4.125	1.575	1.610	13-3/4	21-3/8	28-7/8	36-1/2	44	1-1/2-12	24	1.500	2.250	3.000	3.750	4.500	1.710	1.745	15-1/4	23-1/2	31-5/8	39-7/8	48-1/8	Drawing No.	KSTD-004	Description	KATO Tanged UNF Standard, Locking & Non-Locking Screw Thread Inserts (STI)					Revision	New	Drawn By	G. Patterson					Date	11-12-18	Approved By	M. Oana					E		D		C		B		A		
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Revision			New		Drawn By	G. Patterson																																																																																																																																																																																																																																																																																																																																																																				
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