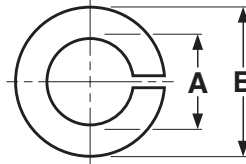
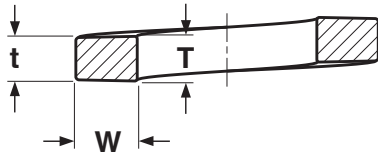


# HEAVY SPLIT & EXTRA DUTY

Steel Lockwashers



SUPPLY CORP.

est. / 1946



| HEAVY SPLIT HELICAL SPRING LOCK WASHERS |       |                 |       |                  |                        | ASME B18.21.1-2009 |
|---|-------|-----------------|-------|------------------|------------------------|--------------------|
| Nominal Washer Size<br>Max              |       | A               |       | B                | $\frac{(T+t)}{2}$      | W                  |
|   |       | Inside Diameter |       | Outside Diameter | Mean Section Thickness | Section Width      |
|   |       | Max             | Min   | Max              | Min                    | Min                |
| #10                                     | 0.190 | 0.200           | 0.193 | 0.350            | 0.056                  | 0.070              |
| 1/4                                     | 0.250 | 0.260           | 0.252 | 0.489            | 0.077                  | 0.110              |
| 5/16                                    | 0.312 | 0.322           | 0.314 | 0.593            | 0.097                  | 0.130              |
| 3/8                                     | 0.375 | 0.385           | 0.377 | 0.688            | 0.115                  | 0.145              |
| 7/16                                    | 0.438 | 0.450           | 0.440 | 0.784            | 0.133                  | 0.160              |
| 1/2                                     | 0.500 | 0.512           | 0.502 | 0.879            | 0.151                  | 0.176              |
| 9/16                                    | 0.562 | 0.574           | 0.564 | 0.975            | 0.170                  | 0.193              |
| 5/8                                     | 0.625 | 0.641           | 0.628 | 1.087            | 0.189                  | 0.210              |
| 3/4                                     | 0.750 | 0.766           | 0.753 | 1.285            | 0.226                  | 0.244              |
| 7/8                                     | 0.875 | 0.894           | 0.878 | 1.489            | 0.266                  | 0.281              |
| 1                                       | 1.000 | 1.024           | 1.003 | 1.700            | 0.306                  | 0.319              |
| 1-1/8                                   | 1.125 | 1.153           | 1.129 | 1.903            | 0.345                  | 0.356              |
| 1-1/4                                   | 1.250 | 1.280           | 1.254 | 2.104            | 0.384                  | 0.393              |
| 1-1/2                                   | 1.500 | 1.534           | 1.504 | 2.491            | 0.458                  | 0.458              |
| EXTRA DUTY HELICAL SPLIT LOCKWASHERS    |       |                 |       |                  |                        |                    |
| 3/8                                     | 0.375 | 0.385           | 0.377 | 0.738            | 0.123                  | 0.170              |
| 5/8                                     | 0.625 | 0.641           | 0.628 | 1.151            | 0.202                  | 0.242              |

|                                 |  |
|---------------------------------|--|
| <b>Description</b>              | Similar to a regular split lock washer, but with a greater outside diameter and thickness.   |
| <b>Applications/ Advantages</b> | The increased bearing area makes this suitable for applications involving higher tightening torques.   |
| <b>Material</b>                 | SAE 1055 - 1065 carbon steel.  |
| <b>Hardness</b>                 | Rockwell C38 - 46  |
| <b>Twist Test</b>               | With the washer in a vice with the split ends free and straight above the vice jaws, a 90° segment of the free end is gripped with a wrench and bent. Washers are to withstand being twisted through a 90° angle without signs of fracture. When the washer ultimately fractures beyond the prescribed 90° limit, the structure at the breaking point shall show a fine grain. |
| <b>Plating</b>                  | See Appendix-A for information about plating heavy split lock washers.   |