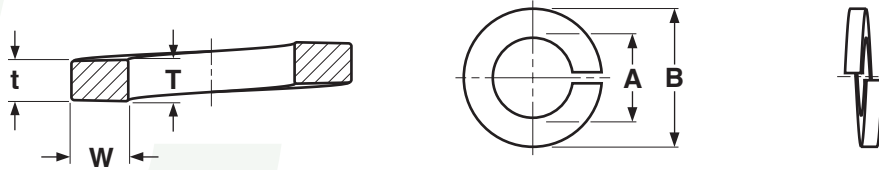


## Washers

## METRIC

Regular Split  
Lockwasher

| METRIC - SPLIT LOCKWASHERS |                 |      |                  |                   | DIN 127B      |
|----------------------------|-----------------|------|------------------|-------------------|---------------|
| Nominal Washer Size        | A               |      | B                | T                 | W             |
|                            | Inside Diameter |      | Outside Diameter | Section Thickness | Section Width |
|                            | Max             | Min  | Ref              | Ref               | Ref           |
| M2                         | 2.4             | 2.1  | 4.4              | 0.50              | 0.9           |
| M2.5                       | 2.9             | 2.6  | 5.1              | 0.60              | 1             |
| M3                         | 3.4             | 3.1  | 6.2              | 0.80              | 1.3           |
| M4                         | 4.4             | 4.1  | 7.6              | 0.90              | 1.5           |
| M5                         | 5.4             | 5.1  | 9.2              | 1.20              | 1.8           |
| M6                         | 6.5             | 6.1  | 11.8             | 1.60              | 2.5           |
| M8                         | 8.5             | 8.1  | 14.8             | 2                 | 3             |
| M10                        | 10.7            | 10.2 | 18.1             | 2.2               | 3.5           |
| M12                        | 12.7            | 12.2 | 21.1             | 2.5               | 4             |
| M16                        | 17.0            | 16.2 | 27.4             | 3.5               | 5             |
| M20                        | 21.2            | 20.2 | 33.6             | 4                 | 6             |
| M24                        | 25.5            | 24.5 | 40               | 5                 | 7             |
| M30                        | 31.7            | 30.5 | 48.2             | 6                 | 8             |
| M36                        | 37.7            | 36.5 | 58.2             | 6                 | 10            |
| M42                        | 43.7            | 42.5 | 68.2             | 7                 | 12            |
| M48                        | 50.5            | 49   | 75               | 7                 | 12            |

| Description                 | A coiled, hardened, split circular washer with a slightly trapezoidal wire section, for use with metric screws.   |  |
|-----------------------------|---|--|
| Applications/<br>Advantages | (A) Applies greater bolt tension per unit of applied torque; (B) Provides a hardened bearing surface, creating more uniform torque control; (C) Provides more uniform load distribution; (D) Resists loosening caused by vibration and corrosion; (E) Is preferred lockwasher for use with hardened bearing surfaces. | For use with stainless nuts and screws of a similar stainless alloy in corrosive environments. |
| Material                    | Spring steel  | A2 Stainless (Class 304)   |
| Hardness                    | Rockwell C 44 - 51  | <b>M2 thru M16:</b> Rockwell C 35 - 43<br><b>Over M16:</b> Rockwell C 32 - 43                  |
| Plating                     | See Appendix-A for information about the plating of carbon steel lock washers.  |  |