

# Mounting Hardware & Supports

Eaton’s B-Line series is a leading manufacturer of high quality support systems for the data communications and from all threaded rod to U, V and J bolts and more, Eaton offers a complete line of hardware to help complete a professional installation.

| Material: | Type                | Specification          |
|-----------|---------------------|------------------------|
|           | Steel               | ASTM A307 and SAE J429 |
|           | Silicon Bronze (BR) | ASTM F468              |
| Finishes: |                     |                        |
|           | - Zinc Plated (ZN)  | ASTM B633              |
|           | - Yellow Zinc (YZ)  | ASTM B633              |
|           | - Black Zinc (BZ)   | ASTM B633              |



(ZN)  
Zinc Plated



(YZ)  
Yellow Zinc

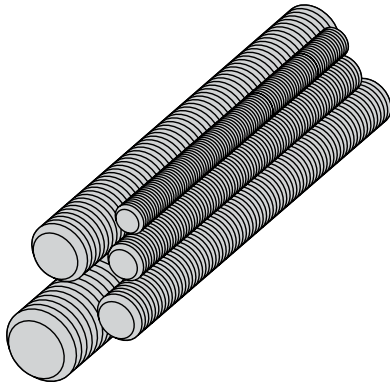


(BZ)  
Black Zinc

# Mounting Hardware & Supports

## All Threaded Drop Rod

- Rolled threads for added strength
- Loading Capacity (Safety Factor of 5)
  - $\frac{3}{8}$ "-16 = 610 lbs. (2.71 kN)
  - $\frac{1}{2}$ "-13 = 1130 lbs. (5.02 kN)
  - $\frac{5}{8}$ "-11 = 1810 lbs. (8.05 kN)
- Sold per 100 ft. (30.5m)
- Material: ASTM A307 Gr. A steel
- Finish: Yellow zinc (YZN)
  - (Other finishes available upon request)

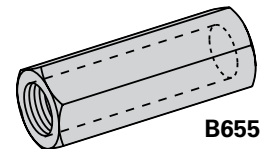


| Part Number                                     | Rod Length |        | Weight Per Rod |        |
|-------------------------------------------------|------------|--------|----------------|--------|
|                                                 | In.        | (mm)   | Lbs.           | (kg)   |
| <b><math>\frac{3}{8}</math>"-16 Thread Size</b> |            |        |                |        |
| <b>ATR<math>\frac{3}{8}</math>x12YZN</b>        | 12"        | (305)  | 0.3            | (0.13) |
| <b>ATR<math>\frac{3}{8}</math>x36YZN</b>        | 36"        | (914)  | 0.9            | (0.41) |
| <b>ATR<math>\frac{3}{8}</math>x72YZN</b>        | 72"        | (1829) | 1.9            | (0.86) |
| <b>ATR<math>\frac{3}{8}</math>x120YZN</b>       | 120"       | (3048) | 3.1            | (1.40) |
| <b>ATR<math>\frac{3}{8}</math>x144YZN</b>       | 144"       | (3657) | 3.8            | (1.72) |
| <b><math>\frac{1}{2}</math>"-13 Thread Size</b> |            |        |                |        |
| <b>ATR<math>\frac{1}{2}</math>x12YZN</b>        | 12"        | (305)  | 0.6            | (0.27) |
| <b>ATR<math>\frac{1}{2}</math>x36YZN</b>        | 36"        | (914)  | 1.8            | (0.81) |
| <b>ATR<math>\frac{1}{2}</math>x72YZN</b>        | 72"        | (1829) | 3.6            | (1.63) |
| <b>ATR<math>\frac{1}{2}</math>x120YZN</b>       | 120"       | (3048) | 6.0            | (2.72) |
| <b>ATR<math>\frac{1}{2}</math>x144YZN</b>       | 144"       | (3657) | 7.2            | (3.26) |
| <b><math>\frac{5}{8}</math>"-11 Thread Size</b> |            |        |                |        |
| <b>ATR<math>\frac{5}{8}</math>x12YZN</b>        | 12"        | (305)  | 1.0            | (0.45) |
| <b>ATR<math>\frac{5}{8}</math>x36YZN</b>        | 36"        | (914)  | 3.0            | (1.36) |
| <b>ATR<math>\frac{5}{8}</math>x72YZN</b>        | 72"        | (1829) | 6.0            | (2.72) |
| <b>ATR<math>\frac{5}{8}</math>x120YZN</b>       | 120"       | (3048) | 10.0           | (4.53) |
| <b>ATR<math>\frac{5}{8}</math>x144YZN</b>       | 144"       | (3657) | 12.0           | (5.44) |

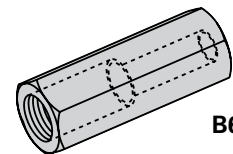
## Threaded Rod Coupling

- Material: ASTM A307 Gr. A steel
- Finish: Clear zinc (ZN)

| Part Number                                                     | Thread Size                             | Coupling Length   |      | Weight |        |
|-----------------------------------------------------------------|-----------------------------------------|-------------------|------|--------|--------|
|                                                                 |                                         | In.               | (mm) | Lbs.   | (kg)   |
| <b>B655-<math>\frac{3}{8}</math></b>                            | $\frac{3}{8}$ "-16                      | 1 $\frac{1}{8}$ " | (28) | 0.02   | (0.01) |
| <b>B656-<math>\frac{1}{8}</math> x <math>\frac{3}{8}</math></b> | $\frac{3}{8}$ "-16 & $\frac{1}{8}$ "-13 | 1 $\frac{1}{8}$ " | (32) | 0.07   | (0.03) |
| <b>B655-<math>\frac{1}{8}</math></b>                            | $\frac{1}{8}$ "-13                      | 1 $\frac{3}{8}$ " | (44) | 0.11   | (0.05) |
| <b>B655-<math>\frac{5}{8}</math></b>                            | $\frac{5}{8}$ "-11                      | 2 $\frac{1}{8}$ " | (54) | 0.18   | (0.08) |
| <b>B656-<math>\frac{5}{8}</math> x <math>\frac{1}{8}</math></b> | $\frac{1}{8}$ "-13 & $\frac{5}{8}$ "-11 | 1 $\frac{1}{8}$ " | (32) | 0.14   | (0.06) |



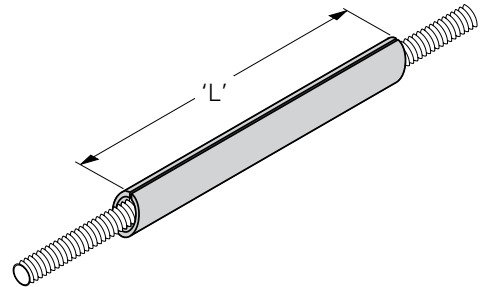
**B655**



**B656**

## Threaded Rod Protector

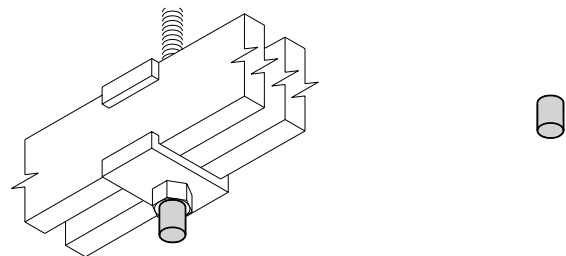
- Use to protect cabling from the all threaded rod
- UL-94 VO material for flame resistance
- Material: PVC
- Finish Color: Gray



| Part Number      | Thread Size | 'L' |        | Weight |        |
|------------------|-------------|-----|--------|--------|--------|
|                  |             | In. | (mm)   | Lbs.   | (kg)   |
| <b>SB301½x8</b>  | ½"-13       | 8"  | (203)  | 0.03   | (0.01) |
| <b>SB301⅝x8</b>  | ⅝"-11       | 8"  | (203)  | 0.04   | (0.02) |
| <b>SB301½x72</b> | ½"-13       | 72" | (1829) | 0.23   | (0.10) |
| <b>SB301⅝x72</b> | ⅝"-11       | 72" | (1829) | 0.32   | (0.14) |

## Threaded Rod End Cap

- Use to provide a protective covering for exposed threads on threaded rods, cap screws, etc
- Sold in packages of 10
- Material: Polyethylene
- Finish Color: Yellow



| Part Number   | Hardware Size | Weight per Package |         |
|---------------|---------------|--------------------|---------|
|               |               | Lbs.               | (kg)    |
| <b>SB300B</b> | ¾"-16         | 0.04               | (0.018) |
| <b>SB300C</b> | ½"-13         | 0.05               | (0.022) |
| <b>SB300D</b> | ⅝"-11         | 0.06               | (0.027) |

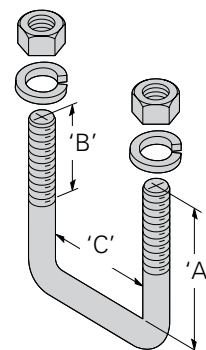
# Mounting Hardware & Supports

## "U" Bolt

- Includes: hardware shown
- Material: SAE J429 steel
- Finish\_\_\_: Black zinc (BZ) or Yellow zinc (YZ)  
Other finishes are available upon request

| Part Number | 'A'    |       | 'B'    |      | 'C'     |       | Thread Size | Weight Per 100 |        |
|-------------|--------|-------|--------|------|---------|-------|-------------|----------------|--------|
|             | In.    | (mm)  | In.    | (mm) | In.     | (mm)  |             | Lbs.           | (kg)   |
| SB1001A__   | 3"     | (76)  | 1 1/4" | (32) | 3 1/8"  | (79)  | 1/2"-13     | 18             | (8.1)  |
| SB1001B__   | 4 1/2" | (114) | 1 1/2" | (38) | 3 1/8"  | (79)  | 1/2"-13     | 23             | (10.4) |
| SB1001E__   | 5 1/2" | (140) | 1 1/2" | (38) | 1 9/32" | (40)  | 3/8"-16     | 34             | (15.4) |
| SB1001M__   | 5"     | (127) | 1 1/2" | (38) | 4 1/8"  | (105) | 1/2"-13     | 75             | (34.0) |
| SB1001S__   | 5"     | (127) | 1"     | (25) | 5 1/4"  | (133) | 1/2"-13     | 84             | (38.1) |
| SB1001U__   | 4"     | (101) | 1"     | (25) | 1 9/16" | (39)  | 1/2"-13     | 54             | (24.5) |

Specify part number and finish when ordering.

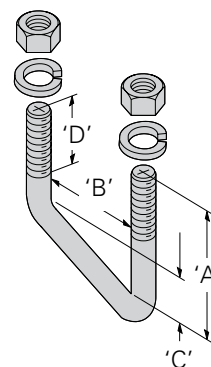


## "V" Bolt

- Designed for use with angle iron
- Includes: hardware shown
- Material: SAE J429 steel
- Finish\_\_\_: Black zinc (BZ) or Yellow zinc (YZ)  
Other finishes are available upon request

| Part Number | 'A' |       | 'B'     |      | 'C'    |      | 'D'     |      | Thread Size | Weight Per 100 |        |
|-------------|-----|-------|---------|------|--------|------|---------|------|-------------|----------------|--------|
|             | In. | (mm)  | In.     | (mm) | In.    | (mm) | In.     | (mm) |             | Lbs.           | (kg)   |
| SB100203A__ | 3"  | (76)  | 2 1/16" | (52) | 1 1/8" | (28) | 1 1/4"  | (32) | 3/8"-16     | 21             | (9.5)  |
| SB100203B__ | 4"  | (101) | 2 1/16" | (52) | 1 1/8" | (28) | 1 1/2"  | (32) | 3/8"-16     | 26             | (11.8) |
| SB100203C__ | 6"  | (152) | 2 1/16" | (52) | 1 1/8" | (28) | 1 1/2"  | (32) | 3/8"-16     | 36             | (16.3) |
| SB100204B__ | 3"  | (76)  | 2 1/8"  | (54) | 2"     | (51) | 1 3/16" | (20) | 1/2"-13     | 44             | (19.9) |
| SB100204D__ | 4"  | (101) | 2 1/8"  | (54) | 2"     | (51) | 1 1/2"  | (32) | 1/2"-13     | 52             | (23.6) |
| SB100204G__ | 5"  | (127) | 2 1/8"  | (54) | 2"     | (51) | 2"      | (51) | 1/2"-13     | 62             | (28.1) |
| SB100204H__ | 6"  | (152) | 2 1/8"  | (54) | 2"     | (51) | 2"      | (51) | 1/2"-13     | 71             | (32.2) |

Specify part number and finish when ordering.

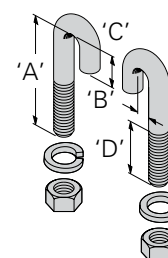


## "J" Bolt

- Includes: hardware shown
- Material: SAE J429 steel
- Finish\_\_\_: Black zinc (BZ) or Yellow zinc (YZ)  
Other finishes are available upon request

| Part Number | 'A'    |       | 'B'     |      | 'C'  |      | 'D'    |      | Thread Size | Weight Per 100 |        |
|-------------|--------|-------|---------|------|------|------|--------|------|-------------|----------------|--------|
|             | In.    | (mm)  | In.     | (mm) | In.  | (mm) | In.    | (mm) |             | Lbs.           | (kg)   |
| SB1003A__   | 2"     | (51)  | 1/4"    | (6)  | 1/2" | (13) | 1"     | (25) | 5/16"-18    | 13             | (5.9)  |
| SB1003F__   | 4 1/4" | (108) | 1/2"    | (13) | 3/4" | (19) | 1 1/4" | (32) | 3/8"-16     | 31             | (14.0) |
| SB1003G__   | 3 1/2" | (89)  | 1 3/16" | (20) | 3/4" | (19) | 1 1/4" | (32) | 5/16"-18    | 20             | (9.1)  |
| SB1003J__   | 2 3/4" | (28)  | 7/16"   | (11) | 3/4" | (19) | 1 1/4" | (25) | 5/16"-18    | 16             | (7.2)  |
| SB1003K__   | 5"     | (127) | 1/2"    | (13) | 3/4" | (19) | 1 1/4" | (32) | 5/16"-18    | 25             | (11.3) |
| SB1003M__   | 3 3/4" | (95)  | 7/16"   | (11) | 3/4" | (19) | 1 1/4" | (32) | 5/16"-18    | 20             | (9.1)  |

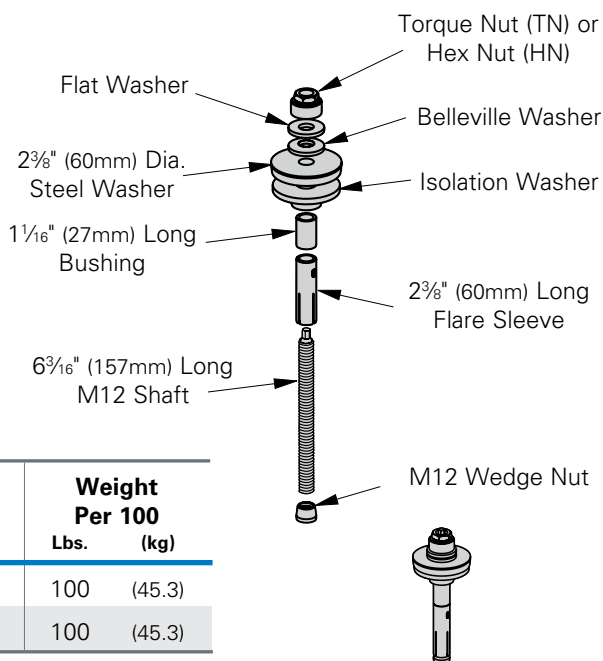
Specify part number and finish when ordering.



# Mounting Hardware & Supports

## Isolated Seismic Anchors

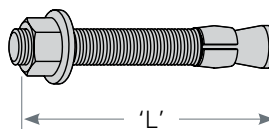
- For use in concrete in seismic applications
- Complies with all NEBS GR-63-CORE requirements
- Loading: 2700 Lbs (12.0kN) pull-out load with safety factor of 3
- Material: Steel anchor & hardware with isolation washer
- Finish: Yellow zinc (YZN)



| Part Number         | Overall Length                   |       | Hole Size                        |      | Weight Per 100 |        |
|---------------------|----------------------------------|-------|----------------------------------|------|----------------|--------|
|                     | In.                              | (mm)  | In.                              | (mm) | Lbs.           | (kg)   |
| <b>ASSAM12157TN</b> | 6 <sup>3</sup> / <sub>16</sub> " | (157) | 1 <sup>1</sup> / <sub>16</sub> " | (17) | 100            | (45.3) |
| <b>ASSAM12157HN</b> | 6 <sup>3</sup> / <sub>16</sub> " | (157) | 1 <sup>1</sup> / <sub>16</sub> " | (17) | 100            | (45.3) |

## Wedge Anchors

- For use in concrete or stone
- Material: steel with stainless steel clip
- Finish: Clear zinc (ZN)



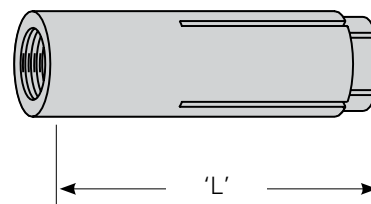
| Part Number           | Thread Size | 'L' Length |      | Hole Size |      | Weight Per 100 |        |
|-----------------------|-------------|------------|------|-----------|------|----------------|--------|
|                       |             | In.        | (mm) | In.       | (mm) | Lbs.           | (kg)   |
| <b>AWA-25-225</b>     | 1/4"-20     | 2 1/4"     | (57) | 1/4"      | (6)  | 3.7            | (1.7)  |
| <b>AWA-37-275-BLT</b> | 3/8"-16     | 2 3/4"     | (70) | 3/8"      | (19) | 18.8           | (8.5)  |
| <b>AWA-50-275</b>     | 1/2"-13     | 2 3/4"     | (70) | 1/2"      | (13) | 18.8           | (8.5)  |
| <b>AWA-50-375</b>     | 1/2"-13     | 3 3/4"     | (95) | 1/2"      | (13) | 23.6           | (10.7) |
| <b>AWA-62-350</b>     | 5/8"-11     | 3 1/2"     | (89) | 5/8"      | (16) | 36.0           | (16.3) |

\* Includes an additional 3/8" fender washer.

# Mounting Hardware & Supports

## Drop-In Anchors

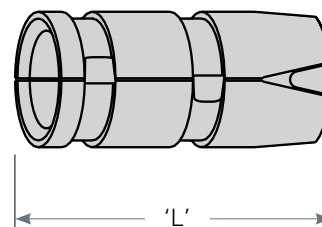
- For use in concrete or stone
- Use with machine screw, bolt, or threaded rod
- Material: Zamac #3 alloy



| Part Number   | Thread Size | 'L' Length<br>In. (mm) | Thread Depth<br>In. (mm) | Hole Size<br>In. (mm) | Weight Per 100 |       |
|---------------|-------------|------------------------|--------------------------|-----------------------|----------------|-------|
|               |             |                        |                          |                       | Lbs.           | (kg)  |
| <b>ADI-37</b> | 3/8"-16     | 1 9/16" (40)           | 5/8" (16)                | 1/2" (13)             | 3.2            | (1.4) |
| <b>ADI-50</b> | 1/2"-13     | 2" (51)                | 1 3/16" (20)             | 5/8" (16)             | 5.8            | (2.6) |
| <b>ADI-62</b> | 5/8"-11     | 2 1/2" (64)            | 1 3/16" (30)             | 7/8" (22)             | 8.0            | (3.6) |
| <b>ADI-75</b> | 3/4"-10     | 3 1/8" (79)            | 1 3/16" (30)             | 1" (25)               | 12.5           | (5.7) |

## Single Expansion Anchors

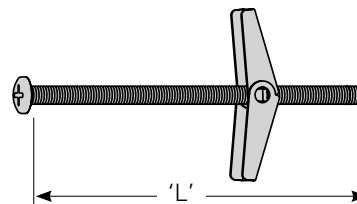
- For use in concrete, block, brick, or stone
- Use with machine screw or bolt
- Material: Zamac #3 alloy



| Part Number   | Thread Size | 'L' Length<br>In. (mm) | Hole Size<br>In. (mm) | Weight Per 100 |       |
|---------------|-------------|------------------------|-----------------------|----------------|-------|
|               |             |                        |                       | Lbs.           | (kg)  |
| <b>ASE-25</b> | 1/4"-20     | 1 5/16" (33)           | 1/2" (13)             | 3.6            | (1.6) |
| <b>ASE-37</b> | 3/8"-16     | 1 1/2" (38)            | 5/8" (16)             | 6.4            | (2.9) |
| <b>ASE-50</b> | 1/2"-13     | 2" (51)                | 7/8" (22)             | 12.4           | (5.6) |
| <b>ASE-62</b> | 5/8"-11     | 2 5/8" (67)            | 1" (25)               | 20.5           | (9.3) |

## Toggle Bolts

- For use in any type of hollow construction, drywall or block
- Material: Steel
- Finish: Clear zinc (ZN)

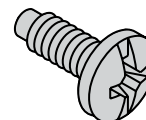


| Part Number       | Thread Size | 'L' Length<br>In. (mm) | Hole Size<br>In. (mm) | Weight Per 100 |       |
|-------------------|-------------|------------------------|-----------------------|----------------|-------|
|                   |             |                        |                       | Lbs.           | (kg)  |
| <b>ATB-25-300</b> | 1/4"-20     | 3" (76)                | 5/8" (16)             | 5.8            | (2.6) |
| <b>ATB-37-300</b> | 3/8"-16     | 3" (76)                | 7/8" (22)             | 14.4           | (6.5) |
| <b>ATB-37-400</b> | 3/8"-16     | 4" (101)               | 7/8" (22)             | 17.6           | (8.0) |

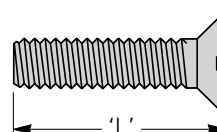
# Mounting Hardware & Supports

## Bolts and Screws

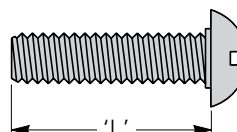
- Threads: Class 2A, except lag screw
- Material: ASTM A307 Gr. A steel
- Finish: Yellow zinc (YZN)
- Other sizes are available, contact customer service
- For equipment rack mounting hardware see page 44 (SB58604)



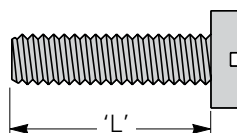
| Part Number      | Thread Size | 'L' Length |      | Weight Per 100 |        |
|------------------|-------------|------------|------|----------------|--------|
|                  |             | In.        | (mm) | Lbs.           | (kg)   |
| 5/16X3/4SFHMSYZN | 5/16"-18    | 3/4"       | (19) | 2.0            | (0.91) |
| 5/16X7/8SFHMSYZN | 5/16"-18    | 7/8"       | (22) | 2.0            | (0.91) |
| 5/16X1SFHMSYZN   | 5/16"-18    | 1"         | (25) | 3.0            | (1.36) |
| 3/8X1SFHMSYZN    | 3/8"-16     | 1"         | (25) | 4.0            | (1.81) |



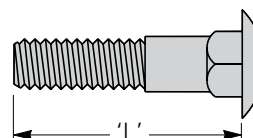
| Part Number       | Thread Size | 'L' Length |      | Weight Per 100 |        |
|-------------------|-------------|------------|------|----------------|--------|
|                   |             | In.        | (mm) | Lbs.           | (kg)   |
| 12-24X1/2SRHMSYZN | #12-24      | 1/2"       | (13) | 1.0            | (0.45) |
| 12-24X1SRHMSYZN   | #12-24      | 1"         | (25) | 2.0            | (0.91) |
| 1/4X3/8SRHMSYZN   | 1/4"-20     | 3/8"       | (9)  | 1.0            | (0.45) |
| 1/4X3/4SRHMSYZN   | 1/4"-20     | 3/4"       | (19) | 2.0            | (0.91) |



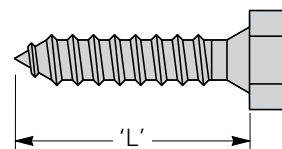
| Part Number       | Thread Size | 'L' Length |      | Weight Per 100 |        |
|-------------------|-------------|------------|------|----------------|--------|
|                   |             | In.        | (mm) | Lbs.           | (kg)   |
| 12-24X1/2SPHMSYZN | #12-24      | 1/2"       | (13) | 1.0            | (0.45) |
| 12-24X5/8SPHMSYZN | #12-24      | 5/8"       | (16) | 2.1            | (0.95) |
| 12-24X3/4SPHMSYZN | #12-24      | 3/4"       | (19) | 1.0            | (0.45) |



| Part Number      | Thread Size | 'L' Length |      | Weight Per 100 |        |
|------------------|-------------|------------|------|----------------|--------|
|                  |             | In.        | (mm) | Lbs.           | (kg)   |
| 1/4X11/4SNCBYZN  | 1/4"-20     | 1 1/4"     | (32) | 2.0            | (0.91) |
| 5/16X21/4SNCBYZN | 5/16"-18    | 2 1/4"     | (57) | 5.0            | (2.27) |
| 5/16X23/4SNCBYZN | 5/16"-18    | 2 3/4"     | (70) | 6.0            | (2.72) |
| 3/8X11/4SNCBYZN  | 3/8"-16     | 1 1/4"     | (32) | 5.0            | (2.27) |
| 3/8X13/4SNCBYZN  | 3/8"-16     | 1 3/4"     | (44) | 7.0            | (3.17) |
| 3/8X21/4SNCBYZN  | 3/8"-16     | 2 1/4"     | (57) | 8.0            | (3.63) |



| Part Number     | Thread Size | 'L' Length |      | Weight Per 100 |        |
|-----------------|-------------|------------|------|----------------|--------|
|                 |             | In.        | (mm) | Lbs.           | (kg)   |
| 3/8X11/2HHLSYZN | 3/8"        | 1 1/2"     | (38) | 4.0            | (1.81) |
| 3/8X2HHLSYZN    | 3/8"        | 2"         | (51) | 5.0            | (2.27) |
| 3/8X21/2HHLSYZN | 3/8"        | 2 1/2"     | (63) | 8.0            | (3.63) |
| 1/2X21/2HHLSYZN | 1/2"        | 2 1/2"     | (63) | 15.0           | (6.80) |

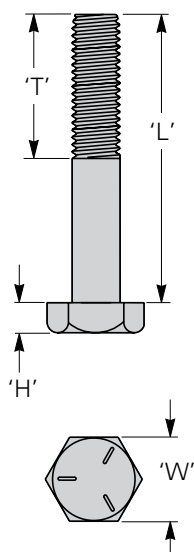


# Mounting Hardware & Supports

## Steel Hex Head Cap Screw

- No threads within two pitches of bolt head
- Class 2A threads
- Dimensions are for reference only
- Material: SAE J429 grade 5 steel. ASTM F468 silicon bronze
- Finish: Yellow zinc (YZN)
- Other sizes are available, contact customer service.

| Bolt Size       | 'H'    |         | 'W'    |        | 'T'    |        |
|-----------------|--------|---------|--------|--------|--------|--------|
|                 | In.    | (mm)    | In.    | (mm)   | In.    | (mm)   |
| <b>1/4"-20</b>  | 5/32"  | (3.97)  | 7/16"  | (11.1) | 3/4"   | (19.0) |
| <b>5/16"-18</b> | 1/4"   | (6.35)  | 1/2"   | (12.7) | 7/8"   | (22.2) |
| <b>3/8"-16</b>  | 19/64" | (7.54)  | 9/16"  | (14.3) | 1"     | (25.4) |
| <b>1/2"-13</b>  | 5/16"  | (7.94)  | 3/4"   | (19.0) | 1 1/4" | (31.7) |
| <b>5/8"-11</b>  | 15/32" | (11.90) | 15/16" | (23.8) | 1 1/2" | (38.1) |



### Part Number Example

1/2 x 2 HHCS YZ

### Thread Size

1/4 = 1/4"-20  
 5/16 = 5/16"-18  
 3/8 = 3/8"-16  
 1/2 = 1/2"-13  
 5/8 = 5/8"-11

Length  
 'L'

**Add Suffix** \_\_\_\_  
 YZN - Yellow Zinc  
 SB - Silicon Bronze

| Part Number | Weight Per 100 |      |
|-------------|----------------|------|
|             | Lbs.           | (kg) |

### 1/4"-20 Thread Size

|                  |     |        |
|------------------|-----|--------|
| 1/4X1 1/2 HHCS__ | 1.0 | (0.45) |
| 1/4X3/4 HHCS__   | 1.0 | (0.45) |
| 1/4X1 HHCS__     | 2.0 | (0.91) |
| 1/4X1 1/4 HHCS__ | 2.0 | (0.91) |
| 1/4X1 1/2 HHCS__ | 2.0 | (0.91) |
| 1/4X1 3/4 HHCS__ | 3.0 | (1.36) |
| 1/4X2 HHCS__     | 4.0 | (1.81) |
| 1/4X2 1/2 HHCS__ | 4.0 | (1.81) |
| 1/4X2 3/4 HHCS__ | 4.0 | (1.81) |
| 1/4X3 HHCS__     | 5.0 | (2.27) |

### 5/16"-18 Thread Size

|                   |     |        |
|-------------------|-----|--------|
| 5/16X3/4 HHCS__   | 2.0 | (0.91) |
| 5/16X1 HHCS__     | 3.0 | (1.36) |
| 5/16X1 1/4 HHCS__ | 3.0 | (1.36) |
| 5/16X1 1/2 HHCS__ | 4.0 | (1.81) |
| 5/16X2 HHCS__     | 5.0 | (2.27) |
| 5/16X3 HHCS__     | 7.0 | (3.17) |

### 5/16"-18 Thread Size

|                  |      |        |
|------------------|------|--------|
| 3/8X1 1/2 HHCS__ | 4.0  | (1.81) |
| 3/8X3/4 HHCS__   | 4.0  | (1.81) |
| 3/8X1 HHCS__     | 5.0  | (2.27) |
| 3/8X1 1/4 HHCS__ | 5.0  | (2.27) |
| 3/8X1 1/2 HHCS__ | 6.0  | (2.72) |
| 3/8X1 3/4 HHCS__ | 7.0  | (3.17) |
| 3/8X2 HHCS__     | 7.0  | (3.17) |
| 3/8X2 1/4 HHCS__ | 8.0  | (3.63) |
| 3/8X2 1/2 HHCS__ | 9.0  | (4.08) |
| 3/8X2 3/4 HHCS__ | 9.0  | (4.08) |
| 3/8X3 HHCS__     | 10.0 | (4.45) |

| Part Number | Weight Per 100 |      |
|-------------|----------------|------|
|             | Lbs.           | (kg) |

### 1/2"-13 Thread Size

|                  |      |         |
|------------------|------|---------|
| 1/2X3/4 HHCS__   | 8.0  | (3.63)  |
| 1/2X1 HHCS__     | 9.0  | (4.08)  |
| 1/2X1 1/4 HHCS__ | 10.0 | (4.45)  |
| 1/2X1 1/2 HHCS__ | 11.0 | (4.99)  |
| 1/2X1 3/4 HHCS__ | 12.0 | (5.44)  |
| 1/2X2 HHCS__     | 14.0 | (6.35)  |
| 1/2X2 1/4 HHCS__ | 15.0 | (6.80)  |
| 1/2X2 1/2 HHCS__ | 16.0 | (7.26)  |
| 1/2X2 3/4 HHCS__ | 18.0 | (8.16)  |
| 1/2X3 HHCS__     | 19.0 | (8.62)  |
| 1/2X3 1/4 HHCS__ | 20.0 | (9.07)  |
| 1/2X3 1/2 HHCS__ | 22.0 | (9.98)  |
| 1/2X3 3/4 HHCS__ | 23.0 | (10.43) |
| 1/2X4 HHCS__     | 25.0 | (11.34) |
| 1/2X4 1/2 HHCS__ | 27.0 | (12.25) |

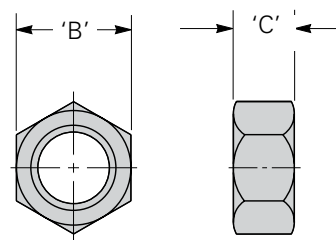
### 5/8"-11 Thread Size

|                  |      |         |
|------------------|------|---------|
| 5/8X3/4 HHCS__   | 13.0 | (5.89)  |
| 5/8X1 HHCS__     | 15.0 | (6.80)  |
| 5/8X1 1/4 HHCS__ | 17.0 | (7.71)  |
| 5/8X1 1/2 HHCS__ | 18.0 | (8.16)  |
| 5/8X1 3/4 HHCS__ | 20.0 | (9.07)  |
| 5/8X2 HHCS__     | 22.0 | (9.98)  |
| 5/8X2 1/4 HHCS__ | 24.0 | (10.88) |
| 5/8X2 1/2 HHCS__ | 26.0 | (11.79) |
| 5/8X2 3/4 HHCS__ | 28.0 | (12.70) |
| 5/8X3 HHCS__     | 31.0 | (14.06) |
| 5/8X3 1/4 HHCS__ | 33.0 | (14.97) |
| 5/8X3 1/2 HHCS__ | 35.0 | (15.87) |
| 5/8X3 3/4 HHCS__ | 37.0 | (16.78) |
| 5/8X4 HHCS__     | 40.0 | (18.14) |
| 5/8X5 HHCS__     | 48.0 | (21.77) |

# Mounting Hardware & Supports

## Hex Nuts

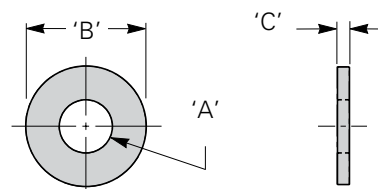
- Material: ASTM A536 Gr. A steel.  
ASTM F468 silicon bronze
- Finish: Yellow zinc (YZ)  
Silicon Bronze (SB)



| Part Number       |                  | Thread Size | 'B'    |        | 'C'    |        | Weight Per 100 |        |
|-------------------|------------------|-------------|--------|--------|--------|--------|----------------|--------|
| YZN               | Silicon Bronze   |             | In.    | (mm)   | In.    | (mm)   | Lbs.           | (kg)   |
| <b>12-24HNYZN</b> | <b>12-24HNSB</b> | #12-24      | 7/16"  | (11.1) | 5/32"  | (3.9)  | 1.0            | (0.45) |
| <b>1/4HNYZN</b>   | <b>1/4HNSB</b>   | 1/4"-20     | 7/16"  | (11.1) | 7/32"  | (5.5)  | 1.0            | (0.45) |
| <b>5/16HNYZN</b>  | <b>5/16HNSB</b>  | 5/16"-18    | 1/2"   | (12.7) | 17/64" | (6.7)  | 1.0            | (0.45) |
| <b>3/8HNYZN</b>   | <b>3/8HNSB</b>   | 3/8"-16     | 9/16"  | (14.3) | 21/64" | (8.3)  | 2.0            | (0.91) |
| <b>1/2HNYZN</b>   | <b>1/2HNSB</b>   | 1/2"-13     | 3/4"   | (19.0) | 7/16"  | (11.1) | 6.0            | (2.72) |
| <b>5/8HNYZN</b>   | <b>5/8HNSB</b>   | 5/8"-11     | 15/16" | (23.8) | 35/64" | (13.9) | 7.0            | (3.17) |

## Flat Washer

- Material: ASTM 844 steel.  
651 alloy silicon bronze
- Finish: Yellow zinc (YZ)  
Silicon Bronze (SB)

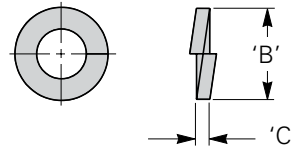


| Part Number      |                 | Thread Size | 'A'     |        | 'B'    |        | 'C'   |        | Weight Per 100 |        |
|------------------|-----------------|-------------|---------|--------|--------|--------|-------|--------|----------------|--------|
| YZN              | Silicon Bronze  |             | In.     | (mm)   | In.    | (mm)   | In.   | (mm)   | Lbs.           | (kg)   |
| <b>12FWYZN</b>   | —               | #12-24      | 1/4"    | (6.3)  | 9/16"  | (14.3) | 3/64" | (1.19) | 0.30           | (0.13) |
| <b>1/4FWYZN</b>  | <b>1/4FWSB</b>  | 1/4"-20     | 5/16"   | (7.9)  | 3/4"   | (19.0) | 1/16" | (1.59) | 0.40           | (0.18) |
| <b>5/16FWYZN</b> | <b>5/16FWSB</b> | 5/16"-18    | 3/8"    | (9.5)  | 3/4"   | (19.0) | 5/64" | (1.98) | 1.20           | (0.54) |
| <b>3/8FWYZN</b>  | <b>3/8FWSB</b>  | 3/8"-16     | 7/16"   | (11.1) | 1"     | (25.4) | 5/64" | (1.98) | 1.60           | (0.72) |
| <b>1/2FWYZN</b>  | <b>1/2FWSB</b>  | 1/2"-13     | 9/16"   | (14.3) | 1 3/8" | (34.9) | 7/64" | (2.78) | 4.10           | (1.86) |
| <b>5/8FWYZN</b>  | —               | 5/8"-11     | 1 1/16" | (17.4) | 1 3/4" | (44.4) | 9/64" | (3.57) | 7.30           | (3.31) |

# Mounting Hardware & Supports

## Lock Washer

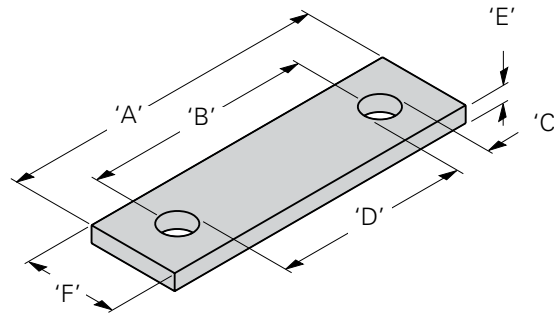
- Material: ANSI 18.21.1 steel.  
651 alloy silicon bronze
- Finish: Yellow zinc (YZ)  
Silicon Bronze (SB)



| YZN              | Part Number<br>Silicon Bronze | Thread Size | 'B'                              |        | 'C'  |       | Weight Per 100 |         |
|------------------|-------------------------------|-------------|----------------------------------|--------|------|-------|----------------|---------|
|                  |                               |             | In.                              | (mm)   | In.  | (mm)  | Lbs.           | (kg)    |
| —                | <b>10LWSB</b>                 | #10-24      | 2 <sup>1</sup> / <sub>64</sub> " | (8.2)  | .05" | (1.3) | 0.1            | (0.04)  |
| <b>1/4LWYZN</b>  | <b>1/4LWSB</b>                | 1/4"-20     | 1 <sup>5</sup> / <sub>32</sub> " | (11.9) | .05" | (1.3) | 3.0            | (1.36)  |
| <b>5/16LWYZN</b> | <b>5/16LWSB</b>               | 5/16"-18    | 1 <sup>9</sup> / <sub>32</sub> " | (15.1) | .09" | (2.3) | 4.0            | (1.81)  |
| <b>3/8LWYZN</b>  | <b>3/8LWSB</b>                | 3/8"-16     | 1 <sup>1</sup> / <sub>16</sub> " | (17.4) | .10" | (2.5) | 6.0            | (2.72)  |
| <b>1/2LWYZN</b>  | <b>1/2LWSB</b>                | 1/2"-13     | 7/8"                             | (22.2) | .13" | (3.3) | 13.0           | (5.89)  |
| <b>5/8LWYZN</b>  | —                             | 5/8"-11     | 1 <sup>3</sup> / <sub>32</sub> " | (27.8) | .17" | (4.3) | 25.0           | (11.34) |

## Two Hole Plate

- Material: ASTM A36 structural steel
- Finish: Yellow zinc (YZ)



| Part Number    | 'A'                               |       | 'B'                              |       | 'C'   |      | 'D'                              |       | 'E'   |      | 'L'                             |      | Weight |        |
|----------------|-----------------------------------|-------|----------------------------------|-------|-------|------|----------------------------------|-------|-------|------|---------------------------------|------|--------|--------|
|                | In.                               | (mm)  | In.                              | (mm)  | In.   | (mm) | In.                              | (mm)  | In.   | (mm) | In.                             | (mm) | Lbs.   | (kg)   |
| <b>SB21501</b> | 3 <sup>5</sup> / <sub>8</sub> "   | (92)  | 2 <sup>7</sup> / <sub>16</sub> " | (62)  | 7/16" | (11) | 2"                               | (51)  | 3/16" | (5)  | 1 <sup>1</sup> / <sub>4</sub> " | (32) | 0.25   | (0.11) |
| <b>SB21502</b> | 3 <sup>13</sup> / <sub>16</sub> " | (97)  | 2 <sup>5</sup> / <sub>8</sub> "  | (66)  | 9/16" | (14) | 2 <sup>1</sup> / <sub>16</sub> " | (52)  | 3/16" | (5)  | 1 <sup>1</sup> / <sub>4</sub> " | (32) | 0.25   | (0.11) |
| <b>SB21503</b> | 3 <sup>1</sup> / <sub>4</sub> "   | (82)  | 2 <sup>1</sup> / <sub>16</sub> " | (52)  | 9/16" | (14) | 1 <sup>1</sup> / <sub>2</sub> "  | (38)  | 3/16" | (5)  | 1 <sup>1</sup> / <sub>4</sub> " | (32) | 0.20   | (0.09) |
| <b>SB21504</b> | 3 <sup>3</sup> / <sub>4</sub> "   | (95)  | 2 <sup>9</sup> / <sub>16</sub> " | (65)  | 3/8"  | (9)  | 2 <sup>3</sup> / <sub>16</sub> " | (55)  | 3/16" | (5)  | 1 <sup>1</sup> / <sub>4</sub> " | (32) | 0.20   | (0.09) |
| <b>SB21505</b> | 3 <sup>1</sup> / <sub>2</sub> "   | (89)  | 2 <sup>7</sup> / <sub>16</sub> " | (62)  | 3/8"  | (9)  | 2 <sup>1</sup> / <sub>16</sub> " | (52)  | 3/16" | (5)  | 1 <sup>1</sup> / <sub>4</sub> " | (32) | 0.20   | (0.09) |
| <b>SB21506</b> | 5 <sup>1</sup> / <sub>8</sub> "   | (130) | 4 <sup>3</sup> / <sub>8</sub> "  | (111) | 3/8"  | (9)  | 4"                               | (101) | 1/4"  | (6)  | 1 <sup>1</sup> / <sub>4</sub> " | (32) | 0.35   | (0.16) |
| <b>SB21507</b> | 6 <sup>3</sup> / <sub>4</sub> "   | (171) | 5 <sup>3</sup> / <sub>4</sub> "  | (146) | 9/16" | (14) | 5 <sup>3</sup> / <sub>16</sub> " | (132) | 3/8"  | (9)  | 2"                              | (51) | 1.40   | (0.63) |

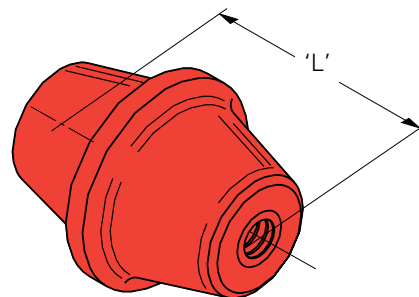
## Touch-Up Paint

- Size: 0.6 ounce bottle
- Brush on

| Part Number     | Color              | Qty./Box | Wt./Box<br>ozs. (liter) |
|-----------------|--------------------|----------|-------------------------|
| <b>SB420CFB</b> | Flat Black Lacquer | 1        | 0.6 (0.18)              |
| <b>SB420CTG</b> | Gray Lacquer       | 1        | 0.6 (0.18)              |

## Stand-Off Isolator

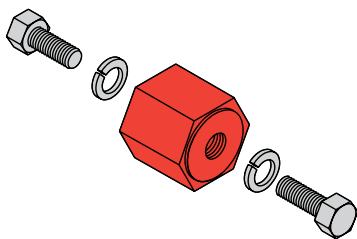
- Use to electrically isolate copper ground bus
- UL recognized material
- UL 94 VO flame resistance
- Material: Polyester fiberglass with steel threaded inserts
- Finish color: Red
- Tensile pull-out strength: 2300 lbs. (10.23kN)
- Cantilever strength: 2800 in./lbs. (316Nm)
- Dielectric strength: 19000 - 21000 volt S.T.



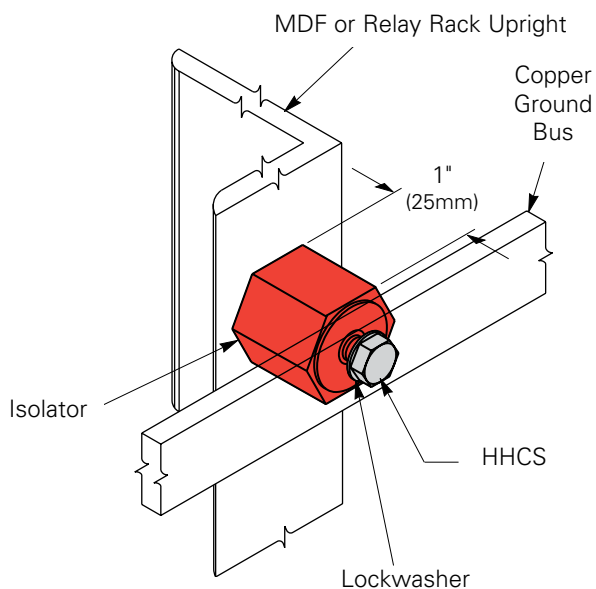
| Part Number   | Thread Size | 'L'    |      | Weight |        |
|---------------|-------------|--------|------|--------|--------|
|               |             | In.    | (mm) | Lbs.   | (kg)   |
| <b>SB1155</b> | 3/8"-16     | 2 1/2" | (63) | 0.30   | (0.13) |
| <b>SB1156</b> | 1/2"-13     | 2 1/2" | (63) | 0.31   | (0.14) |
| <b>SB1157</b> | 5/8"-11     | 2 5/8" | (66) | 0.39   | (0.17) |

## 1" (25mm) Stand-Off Isolator

- Use to secure and electrically isolate copper ground bus to equipment frame
- Includes: (1) Isolator, (2 each) hex head cap screws and lock washers
- UL recognized material
- UL 94 VO flame resistance
- Material: Polyester fiberglass with steel threaded inserts
- Finish color: Red
- Tensile pull-out strength: 900 lbs. (4.00kN)
- Cantilever strength: 350 in./lbs. (39.5Nm)
- Dielectric strength: 10000 volt S.T. minimum



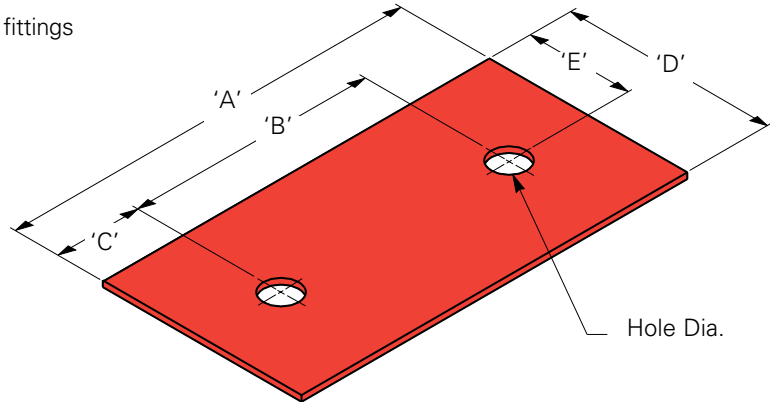
| Part Number   | Thread Size | Weight |        |
|---------------|-------------|--------|--------|
|               |             | Lbs.   | (kg)   |
| <b>SB1154</b> | 1/4"-20     | 0.09   | (0.04) |
| <b>SB1153</b> | #12-24      | 0.09   | (0.04) |



# Mounting Hardware & Supports

## Two-Hole Isolation Pad

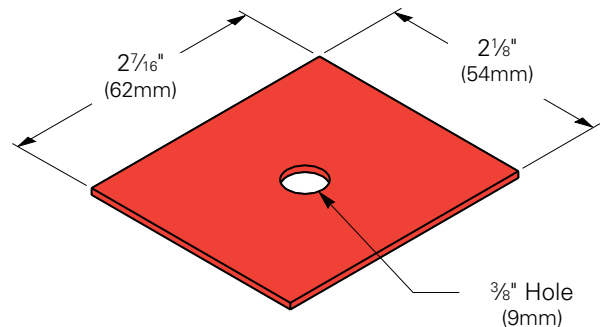
- Use to provide electrical isolation between metallic fittings
- See SB-2531 for kit
- UL recognized material
- UL 94 VO flame resistance
- Material: 1/16" (1.6mm) polyester fiberglass
- Finish Color: Red



| Part Number     | 'A'     |       | 'B'     |       | 'C' |      | 'D'    |       | 'E'     |      | Hole Diameter |      | Weight |        |
|-----------------|---------|-------|---------|-------|-----|------|--------|-------|---------|------|---------------|------|--------|--------|
|                 | In.     | (mm)  | In.     | (mm)  | In. | (mm) | In.    | (mm)  | In.     | (mm) | In.           | (mm) | Lbs.   | (kg)   |
| <b>SB116301</b> | 4 7/16" | (112) | 2 7/16" | (62)  | 1"  | (25) | 2 1/8" | (54)  | 1 1/16" | (27) | 3/8"          | (9)  | 0.04   | (0.02) |
| <b>SB116302</b> | 3 1/2"  | (89)  | 1 1/2"  | (38)  | 1"  | (25) | 2 1/8" | (54)  | 1 1/16" | (27) | 3/4"          | (19) | 0.03   | (0.01) |
| <b>SB116303</b> | 6 5/8"  | (168) | 4 5/8"  | (117) | 1"  | (25) | 2 1/8" | (54)  | 1 1/16" | (27) | 1 1/16"       | (17) | 0.06   | (0.03) |
| <b>SB116304</b> | 4 5/8"  | (117) | 2 5/8"  | (66)  | 1"  | (25) | 2 1/8" | (54)  | 1 1/16" | (27) | 9/16"         | (14) | 0.04   | (0.02) |
| <b>SB116305</b> | 4 9/16" | (116) | 2 9/16" | (65)  | 1"  | (25) | 2 3/4" | (70)  | 2 9/32" | (58) | 3/8"          | (9)  | 0.06   | (0.03) |
| <b>SB116306</b> | 4 1/8"  | (105) | 2 1/8"  | (54)  | 1"  | (25) | 2 1/8" | (54)  | 1 1/16" | (27) | 9/16"         | (14) | 0.04   | (0.02) |
| <b>SB116307</b> | 7 3/4"  | (197) | 5 3/4"  | (146) | 1"  | (25) | 2 5/8" | (67)  | 1 5/16" | (33) | 5/8"          | (16) | 0.09   | (0.04) |
| <b>SB116308</b> | 4 9/16" | (116) | 2 9/16" | (65)  | 1"  | (25) | 7 3/4" | (197) | 2 9/32" | (58) | 3/8"          | (9)  | 0.16   | (0.07) |
| <b>SB116309</b> | 9 1/8"  | (232) | 2 5/8"  | (67)  | 1"  | (25) | 2 1/8" | (54)  | 1 1/16" | (27) | 9/16"         | (14) | 0.09   | (0.04) |

## Single-Hole Isolation Pad

- Use to provide electrical isolation between metallic fittings
- See SB-2501 for kit
- UL recognized material
- UL 94 VO flame resistance
- Material: 1/16" (1.6mm) polyester fiberglass
- Finish Color: Red

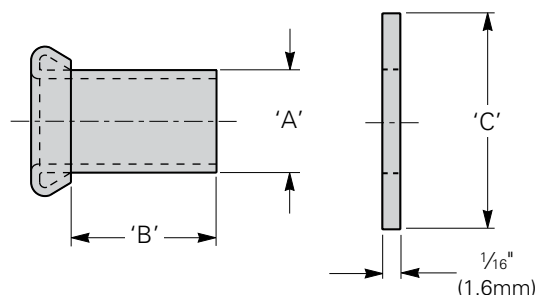


| Part Number   | Weight |        |
|---------------|--------|--------|
|               | Lbs.   | (kg)   |
| <b>SB1162</b> | 0.03   | (0.01) |

# Mounting Hardware & Supports

## Nylon Headed Sleeve Kit (Sleeve Washer Included)

- Use to provide electrical isolation when using metallic fasteners
- Material: 6/6 Nylon
- Finish: Natural



| Part Number | Used With Bolt Size | 'A'   |        | 'B'     |      | 'C'    |      | Weight |          |
|-------------|---------------------|-------|--------|---------|------|--------|------|--------|----------|
|             |                     | In.   | (mm)   | In.     | (mm) | In.    | (mm) | Lbs.   | (kg)     |
| SB114502    | 5/16"-18            | .356" | (0.16) | 1/4"    | (6)  | 3/4"   | (19) | 0.001  | (0.0004) |
| SB114504    | 5/16"-18            | .356" | (0.16) | 1/2"    | (13) | 3/4"   | (19) | 0.001  | (0.0004) |
| SB114518    | 5/16"-18            | .356" | (0.16) | 2 5/16" | (59) | 3/4"   | (19) | 0.003  | (0.0013) |
| SB114602    | 3/8"-16             | .419" | (0.19) | 1/4"    | (6)  | 7/8"   | (22) | 0.001  | (0.0004) |
| SB114605    | 3/8"-16             | .419" | (0.19) | 5/8"    | (16) | 7/8"   | (22) | 0.001  | (0.0004) |
| SB114707    | 1/2"-13             | .548" | (0.25) | 7/8"    | (22) | 1"     | (25) | 0.001  | (0.0004) |
| SB114718    | 1/2"-13             | .548" | (0.25) | 2 5/16" | (59) | 1"     | (25) | 0.005  | (0.0022) |
| SB114807    | 5/8"-11             | .680" | (0.31) | 7/8"    | (22) | 1 1/4" | (32) | 0.002  | (0.0009) |
| SB114818    | 5/8"-11             | .680" | (0.31) | 2 5/16" | (59) | 1 1/4" | (32) | 0.006  | (0.0027) |

## Screws & Cage Nuts

- All part numbers are packaged and sold in bags of 100 pieces.

Cage Nuts



Screws



|           | Part Number     | Description Finish | Each        | Weight |        |
|-----------|-----------------|--------------------|-------------|--------|--------|
|           |                 |                    |             | lbs.   | (kg)   |
| Screws    | E2MA1032PHMS100 | #10-32 Phillips    | Clear Zinc  | 0.1    | (0.04) |
|           | E2MA1224PHMS100 | #12-24 Phillips    | Clear Zinc  | 0.1    | (0.04) |
|           | E2MAM6PHMS100   | M6 Phillips        | Yellow Zinc | 0.1    | (0.04) |
| Cage Nuts | E2MACN1032100   | #10-32 Phillips    | Clear Zinc  | 0.1    | (0.04) |
|           | E2MACN1224100   | #12-24 Phillips    | Clear Zinc  | 0.1    | (0.04) |
|           | E2MACNM6100     | M6 Phillips        | Yellow Zinc | 0.1    | (0.04) |

## Hardware

### Rackstuds™ tool-less mounting kit

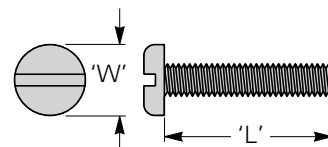
| Part number   | Description |
|---------------|-------------|
| RSSTUD-KIT100 | Pkg. of 100 |



# Mounting Hardware & Supports

## Nylon Fasteners

- Sold in packages of 100 pcs
- Material: 6/6 Nylon
- Finish: Natural

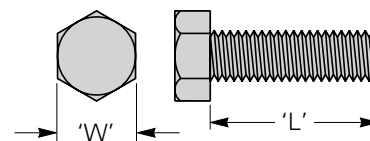


## Pan Head Machine Screw

| Part Number     | Thread Size | 'L' |      | 'W'    |      | Weight Per 100 |        |
|-----------------|-------------|-----|------|--------|------|----------------|--------|
|                 |             | In. | (mm) | In.    | (mm) | Lbs.           | (kg)   |
| 12-24X1SPHMSNYL | #12"-24     | 1"  | (25) | 27/64" | (11) | 0.2            | (0.09) |

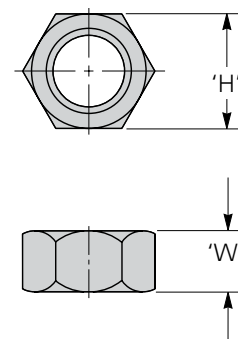
## Hex Head Cap Screw

| Part Number      | Thread Size | 'L'    |      | 'W'   |      | Weight Per 100 |        |
|------------------|-------------|--------|------|-------|------|----------------|--------|
|                  |             | In.    | (mm) | In.   | (mm) | Lbs.           | (kg)   |
| 1/4X3/4HHCSNYL   | 1/4"-20     | 1/4"   | (6)  | 3/8"  | (9)  | 0.2            | (0.09) |
| 1/4X1HHCSNYL     | 1/4"-20     | 1"     | (25) | 3/8"  | (9)  | 0.3            | (0.13) |
| 1/4X1 1/2HHCSNYL | 1/4"-20     | 1 1/2" | (38) | 3/8"  | (9)  | 0.3            | (0.13) |
| 5/16X1HHCSNYL    | 5/16"-18    | 1"     | (25) | 7/16" | (11) | 0.4            | (0.18) |



## Hex Nut

| Part Number | Thread Size | 'H'    |      | 'W'   |      | Weight Per 100 |        |
|-------------|-------------|--------|------|-------|------|----------------|--------|
|             |             | In.    | (mm) | In.   | (mm) | Lbs.           | (kg)   |
| 12HNNYL     | #12"-24     | 5/32"  | (4)  | 7/16" | (11) | 0.1            | (0.04) |
| 1/4HNNYL    | 1/4"-20     | 7/32"  | (5)  | 7/16" | (11) | 0.1            | (0.04) |
| 5/16HNNYL   | 5/16"-18    | 17/64" | (7)  | 1/2"  | (13) | 0.2            | (0.09) |



## Flat Washer

| Part Number | For Bolt Size | 'D'   |        | 'W'    |      | Weight Per 100 |        |
|-------------|---------------|-------|--------|--------|------|----------------|--------|
|             |               | In.   | (mm)   | In.    | (mm) | Lbs.           | (kg)   |
| 12FWNYL     | #12           | 1/4"  | (6.3)  | 9/16"  | (14) | 0.1            | (0.04) |
| 1/4FWNYL    | 1/4"          | 5/16" | (7.9)  | 11/16" | (17) | 0.1            | (0.04) |
| 5/16FWNYL   | 5/16"         | 3/8"  | (9.5)  | 3/4"   | (19) | 0.1            | (0.04) |
| 3/8FWNYL    | 3/8"          | 7/16" | (11.1) | 7/8"   | (22) | 0.1            | (0.04) |

