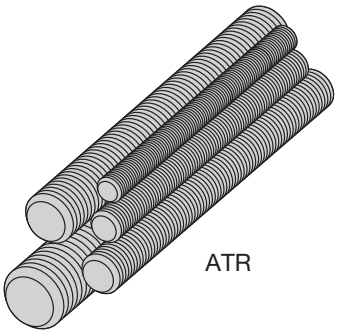
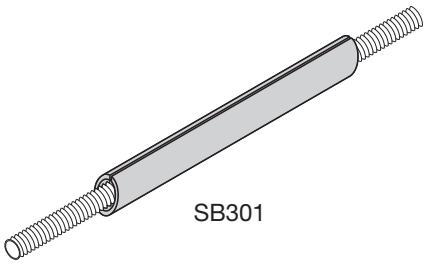
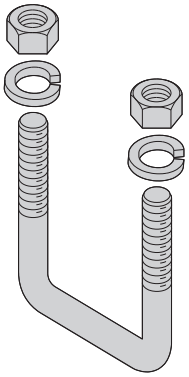
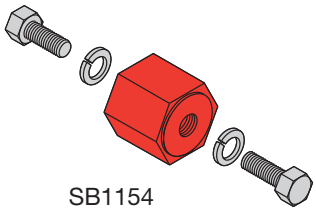
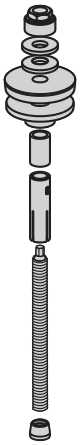
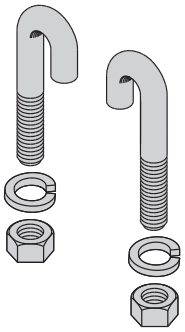

ATR

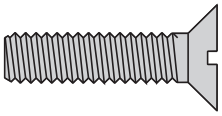

SB301

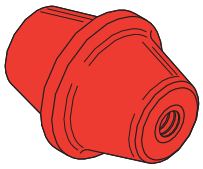

SB1001 Series

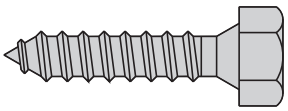

SB1154

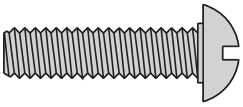

ASSAM12157TN

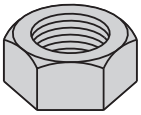

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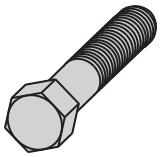

SFHMS Series

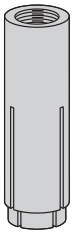

SB1155

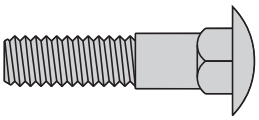

HHLS Series

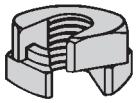

SRHMS Series

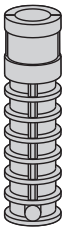

HN (Hex Nuts)


HHCS
(Hex Head
Cap Screws)

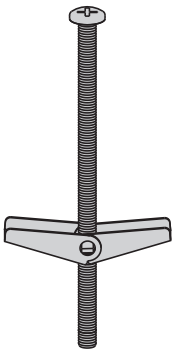

ADI Series

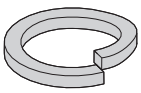

SNCB Series

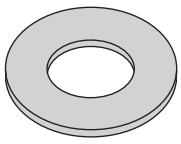

SLN Series


ALS Series


AWA Series


ATB Series


LW (Lock Washers)


FW (Flat Washers)

Cooper B-Line offers a complete line of installation hardware compatible with all products that we manufacture. Our offering includes all thread rod and accessories, U, V and J bolts for attaching cable runway to racks or auxiliary framing, anchor bolts, grade 5 screws, washers, nuts and many other accessories that help complete a professional installation.

Are we missing a component you need? Contact us. Our engineering team will be glad to discuss your needs and provide a design for your specific application. Our goal is to be your preferred supplier for all your comm/data equipment support needs.

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



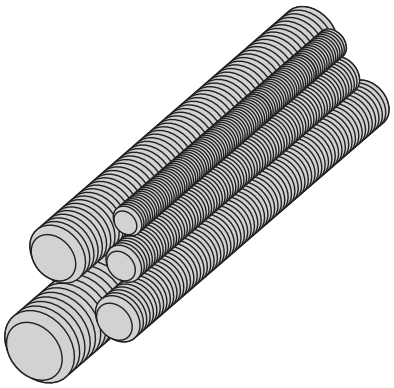
(BZ)
Black Zinc

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All Threaded Drop Rod

- Rolled threads for added strength.
- Loading Capacity (Safety Factor of 5)
  - 3/8"-16 = 610 lbs. (2.71 kN)
  - 1/2"-13 = 1130 lbs. (5.02 kN)
  - 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)

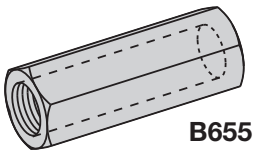


Part Number	Rod Length In.	(mm)	Weight Per Rod Lbs.	(kg)
3/8"-16 Thread Size				
ATR3/8x12YZN	12”	(305)	0.3	(0.13)
ATR3/8x36YZN	36”	(914)	0.9	(0.41)
ATR3/8x72YZN	72”	(1829)	1.9	(0.86)
ATR3/8x120YZN	120”	(3048)	3.1	(1.40)
ATR3/8x144YZN	144”	(3657)	3.8	(1.72)
1/2"-13 Thread Size				
ATR1/2x12YZN	12”	(305)	0.6	(0.27)
ATR1/2x36YZN	36”	(914)	1.8	(0.81)
ATR1/2x72YZN	72”	(1829)	3.6	(1.63)
ATR1/2x120YZN	120”	(3048)	6.0	(2.72)
ATR1/2x144YZN	144”	(3657)	7.2	(3.26)
5/8"-11 Thread Size				
ATR5/8x12YZN	12”	(305)	1.0	(0.45)
ATR5/8x36YZN	36”	(914)	3.0	(1.36)
ATR5/8x72YZN	72”	(1829)	6.0	(2.72)
ATR5/8x120YZN	120”	(3048)	10.0	(4.53)
ATR5/8x144YZN	144”	(3657)	12.0	(5.44)

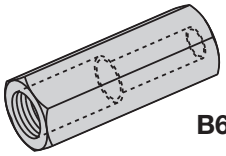
Threaded Rod Coupling

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

Part Number	Thread Size	Coupling Length In.	(mm)	Weight Lbs.	(kg)
B655-3/8	3/8”-16	1 1/8”	(28)	0.02	(0.01)
B656-1/2x3/8	3/8”-16 & 1/2”-13	1 1/4”	(32)	0.07	(0.03)
B655-1/2	1/2”-13	1 3/4”	(44)	0.11	(0.05)
B655-5/8	5/8”-11	2 1/8”	(54)	0.18	(0.08)
B656-5/8x1/2	1/2”-13 & 5/8”-11	1 1/4”	(32)	0.14	(0.06)



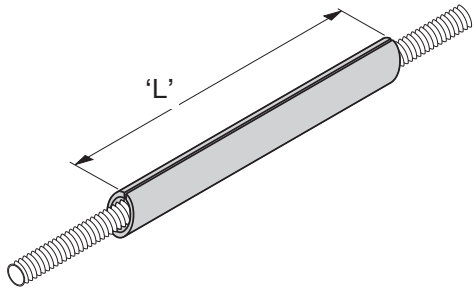
B655



B656

Threaded Rod Protector

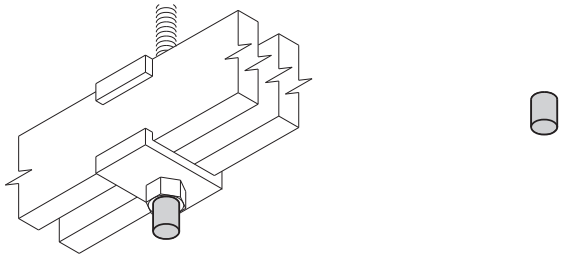
- Use to protect cabling from the all threaded rod.
- UL-94 VO material for flame resistance.
- Material: PVC
- Finish Color: Gray



Part Number	Thread Size	'L'		Weight	
		In.	(mm)	Lbs.	(kg)
SB3011/2x8	1/2"-13	8"	(203)	0.03	(0.01)
SB3015/8x8	5/8"-11	8"	(203)	0.04	(0.02)
SB3011/2x72	1/2"-13	72"	(1829)	0.23	(0.10)
SB3015/8x72	5/8"-11	72"	(1829)	0.32	(0.14)

Threaded Rod End Cap

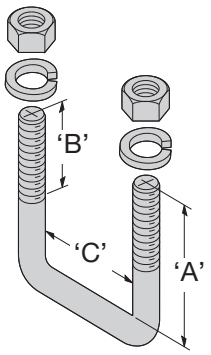
- Use to provide a protective covering for exposed threads on threaded rods, cap screws, etc.
- Sold in packages of 10.
- Material: Polyethylene
- Finish Color: Yellow



Part Number	Hardware Size	Weight per Package	
		Lbs.	(kg)
SB300B	3/8"-16	0.04	(0.018)
SB300C	1/2"-13	0.05	(0.022)
SB300D	5/8"-11	0.06	(0.027)

"U" Bolt

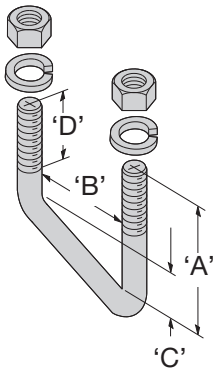
- Includes: hardware shown
- Material: SAE J429 steel
- Finish__: Yellow Zinc (YZN) or Black Zinc (BZ)



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 19/32"	(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)

"V" Bolt

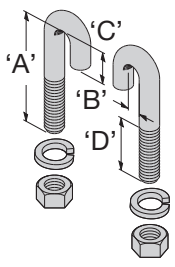
- Designed for use with angle iron.
- Includes: hardware shown
- Material: SAE J429 steel
- Finish__: Yellow Zinc (YZN) or Black Zinc (BZ)



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)	13/16"	(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)

"J" Bolt

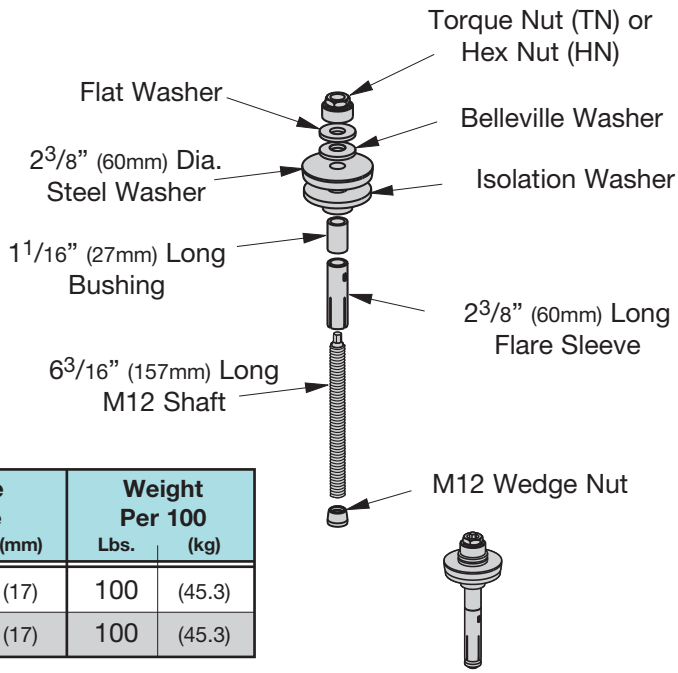
- Includes: hardware shown
- Material: SAE J429 steel
- Finish__: Yellow Zinc (YZN) or Black Zinc (BZ)



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)	13/16"	(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"	(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)

Isolated Seismic Anchors

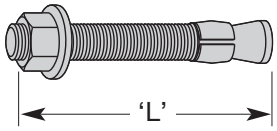
- For use in concrete in seismic applications.
- Complies with all NEBS GR-63-CORE requirements.
- Loading: 2700 Lbs (12.0kN) pull-out load with safety factor of 3.
- Material: Steel anchor & hardware with isolation washer.
- Finish: Yellow Zinc (YZN)



Part Number	Overall Length In.	(mm)	Hole Size In.	(mm)	Weight Per 100 Lbs.	(kg)
ASSAM12157TN	6 3/16"	(157)	11/16"	(17)	100	(45.3)
ASSAM12157HN	6 3/16"	(157)	11/16"	(17)	100	(45.3)

Wedge Anchors

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

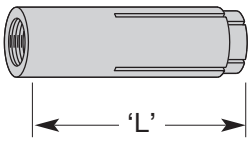


Part Number	Thread Size	'L' Length In.	(mm)	Hole Size In.	(mm)	Weight Per 100 Lbs.	(kg)
AWA-25-225	1/4"-20	2 1/4"	(57)	1/4"	(6)	3.7	(1.7)
AWA-37-275-BLT	3/8"-16	2 3/4"	(70)	3/8"	(19)	18.8	(8.5)
AWA-50-275	1/2"-13	2 3/4"	(70)	1/2"	(13)	18.8	(8.5)
AWA-50-375	1/2"-13	3 3/4"	(95)	1/2"	(13)	23.6	(10.7)
AWA-62-350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

* Includes an additional 3/8" fender washer.

Drop-In Anchors

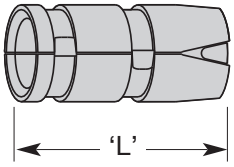
- For use in concrete or stone.
- Use with machine screw, bolt, or threaded rod.
- Material: Zamac #3 alloy



Part Number	Thread Size	'L' Length In.	(mm)	Thread Depth In.	(mm)	Hole Size In.	(mm)	Weight Per 100 Lbs.	(kg)
ADI-37	3/8"-16	19/16"	(40)	5/8"	(16)	1/2"	(13)	3.2	(1.4)
ADI-50	1/2"-13	2"	(51)	13/16"	(20)	5/8"	(16)	5.8	(2.6)
ADI-62	5/8"-11	21/2"	(64)	13/16"	(30)	7/8"	(22)	8.0	(3.6)
ADI-75	3/4"-10	31/8"	(79)	13/16"	(30)	1"	(25)	12.5	(5.7)

Single Expansion Anchors

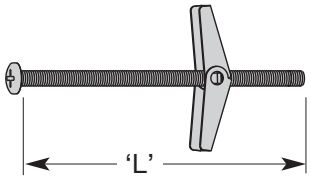
- For use in concrete, block, brick, or stone.
- Use with machine screw or bolt.
- Material: Zamac #3 alloy



Part Number	Thread Size	'L' Length In.	(mm)	Hole Size In.	(mm)	Weight Per 100 Lbs.	(kg)
ASE-25	1/4"-20	15/16"	(33)	1/2"	(13)	3.6	(1.6)
ASE-37	3/8"-16	11/2"	(38)	5/8"	(16)	6.4	(2.9)
ASE-50	1/2"-13	2"	(51)	7/8"	(22)	12.4	(5.6)
ASE-62	5/8"-11	25/8"	(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)

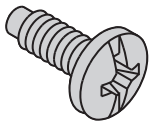


Part Number	Thread Size	'L' Length In.	(mm)	Hole Size In.	(mm)	Weight Per 100 Lbs.	(kg)
ATB-25-300	1/4"-20	3"	(76)	5/8"	(16)	5.8	(2.6)
ATB-37-300	3/8"-16	3"	(76)	7/8"	(22)	14.4	(6.5)
ATB-37-400	3/8"-16	4"	(101)	7/8"	(22)	17.6	(8.0)

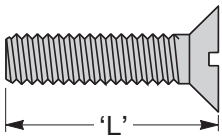
Bolts and Screws

- Threads: Class 2A, except lag screw.
- Material: ASTM A307 Gr. A steel
- Finish: Yellow Zinc (YZN)
- Other sizes are available, contact customer service.

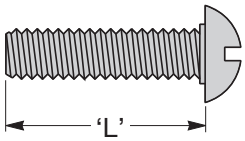
- For equipment rack mounting hardware see page 50 (SB58604)



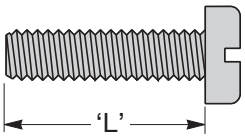
Part Number	Thread Size	'L' Length In.	(mm)	Weight Per 100 Lbs.	(kg)
5/16X3/4SFHMSYZN	5/16"-18	3/4"	(19)	2.0	(0.91)
5/16X7/8SFHMSYZN	5/16"-18	7/8"	(22)	2.0	(0.91)
5/16X1SFHMSYZN	5/16"-18	1"	(25)	3.0	(1.36)
3/8X1SFHMSYZN	3/8"-16	1"	(25)	4.0	(1.81)



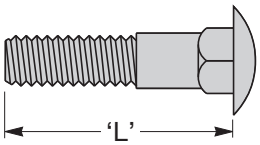
Part Number	Thread Size	'L' Length In.	(mm)	Weight Per 100 Lbs.	(kg)
12-24X1/2SRHMSYZN	#12-24	1/2"	(13)	1.0	(0.45)
12-24X1SRHMSYZN	#12-24	1"	(25)	2.0	(0.91)
1/4X3/8SRHMSYZN	1/4"-20	3/8"	(9)	1.0	(0.45)
1/4X3/4SRHMSYZN	1/4"-20	3/4"	(19)	2.0	(0.91)



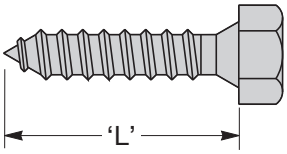
Part Number	Thread Size	'L' Length In.	(mm)	Weight Per 100 Lbs.	(kg)
12-24X1/2SPHMSYZN	#12-24	1/2"	(13)	1.0	(0.45)
12-24X5/8SPHMSYZN	#12-24	5/8"	(16)	2.1	(0.95)
12-24X3/4SPHMSYZN	#12-24	3/4"	(19)	1.0	(0.45)



Part Number	Thread Size	'L' Length In.	(mm)	Weight Per 100 Lbs.	(kg)
1/4X1 1/4SNCBYZN	1/4"-20	1 1/4"	(32)	2.0	(0.91)
5/16X2 1/4SNCBYZN	5/16"-18	2 1/4"	(57)	5.0	(2.27)
5/16X2 3/4SNCBYZN	5/16"-18	2 3/4"	(70)	6.0	(2.72)
3/8X1 1/4SNCBYZN	3/8"-16	1 1/4"	(32)	5.0	(2.27)
3/8X1 3/4SNCBYZN	3/8"-16	1 3/4"	(44)	7.0	(3.17)
3/8X2 1/4SNCBYZN	3/8"-16	2 1/4"	(57)	8.0	(3.63)



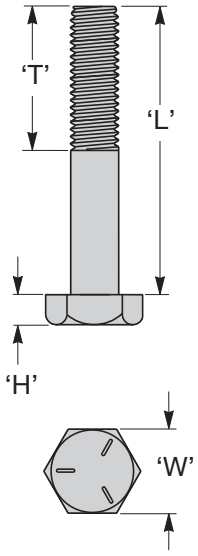
Part Number	Thread Size	'L' Length In.	(mm)	Weight Per 100 Lbs.	(kg)
3/8X1 1/2HHLSYZN	3/8"	1 1/2"	(38)	4.0	(1.81)
3/8X2HHLSYZN	3/8"	2"	(51)	5.0	(2.27)
3/8X2 1/2HHLSYZN	3/8"	2 1/2"	(63)	8.0	(3.63)
1/2X2 1/2HHLSYZN	1/2"	2 1/2"	(63)	15.0	(6.80)



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' In.	'H' (mm)	'W' In.	'W' (mm)	'T' In.	'T' (mm)
1/4"-20	5/32"	(3.97)	7/16"	(11.1)	3/4"	(19.0)
5/16"-18	1/4"	(6.35)	1/2"	(12.7)	7/8"	(22.2)
3/8"-16	19/64"	(7.54)	9/16"	(14.3)	1"	(25.4)
1/2"-13	5/16"	(7.94)	3/4"	(19.0)	1 1/4"	(31.7)
5/8"-11	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

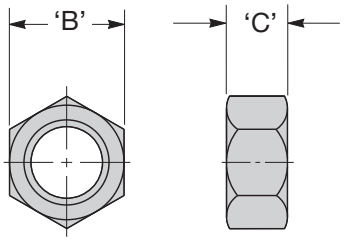
Length 'L'

	Part Number	Weight Per 100 Lbs.	Weight Per 100 (kg)
	1/4"-20 Thread Size		
	1/4X1/2HHCS__	1.0	(0.45)
✔	1/4X3/4HHCS__	1.0	(0.45)
✔	1/4X1HHCS__	2.0	(0.91)
✔	1/4X1 1/4HHCS__	2.0	(0.91)
✔	1/4X1 1/2HHCS__	2.0	(0.91)
	1/4X1 3/4HHCS__	3.0	(1.36)
	1/4X2HHCS__	4.0	(1.81)
	1/4X2 1/2HHCS__	4.0	(1.81)
	1/4X2 3/4HHCS__	4.0	(1.81)
	1/4X3HHCS__	5.0	(2.27)
	5/16"-18 Thread Size		
	5/16X3/4HHCS__	2.0	(0.91)
✔	5/16X1HHCS__	3.0	(1.36)
✔	5/16X1 1/4HHCS__	3.0	(1.36)
	5/16X1 1/2HHCS__	4.0	(1.81)
✔	5/16X2HHCS__	5.0	(2.27)
	5/16X3HHCS__	7.0	(3.17)
	5/16"-18 Thread Size		
	3/8X1/2HHCS__	4.0	(1.81)
✔	3/8X3/4HHCS__	4.0	(1.81)
✔	3/8X1HHCS__	5.0	(2.27)
✔	3/8X1 1/4HHCS__	5.0	(2.27)
✔	3/8X1 1/2HHCS__	6.0	(2.72)
✔	3/8X1 3/4HHCS__	7.0	(3.17)
✔	3/8X2HHCS__	7.0	(3.17)
	3/8X2 1/4HHCS__	8.0	(3.63)
✔	3/8X2 1/2HHCS__	9.0	(4.08)
	3/8X2 3/4HHCS__	9.0	(4.08)
	3/8X3HHCS__	10.0	(4.45)

	Part Number	Weight Per 100 Lbs.	Weight Per 100 (kg)
	1/2"-13 Thread Size		
	1/2X3/4HHCS__	8.0	(3.63)
✔	1/2X1HHCS__	9.0	(4.08)
	1/2X1 1/4HHCS__	10.0	(4.45)
✔	1/2X1 1/2HHCS__	11.0	(4.99)
	1/2X1 3/4HHCS__	12.0	(5.44)
✔	1/2X2HHCS__	14.0	(6.35)
	1/2X2 1/4HHCS__	15.0	(6.80)
	1/2X2 1/2HHCS__	16.0	(7.26)
	1/2X2 3/4HHCS__	18.0	(8.16)
	1/2X3HHCS__	19.0	(8.62)
	1/2X3 1/4HHCS__	20.0	(9.07)
	1/2X3 1/2HHCS__	22.0	(9.98)
	1/2X3 3/4HHCS__	23.0	(10.43)
	1/2X4HHCS__	25.0	(11.34)
	1/2X4 1/2HHCS__	27.0	(12.25)
	5/8"-11 Thread Size		
	5/8X3/4HHCS__	13.0	(5.89)
✔	5/8X1HHCS__	15.0	(6.80)
	5/8X1 1/4HHCS__	17.0	(7.71)
	5/8X1 1/2HHCS__	18.0	(8.16)
	5/8X1 3/4HHCS__	20.0	(9.07)
	5/8X2HHCS__	22.0	(9.98)
	5/8X2 1/4HHCS__	24.0	(10.88)
	5/8X2 1/2HHCS__	26.0	(11.79)
	5/8X2 3/4HHCS__	28.0	(12.70)
	5/8X3HHCS__	31.0	(14.06)
	5/8X3 1/4HHCS__	33.0	(14.97)
	5/8X3 1/2HHCS__	35.0	(15.87)
	5/8X3 3/4HHCS__	37.0	(16.78)
	5/8X4HHCS__	40.0	(18.14)
	5/8X5HHCS__	48.0	(21.77)

Add Suffix __
YZN - Yellow Zinc
SB - Silicon Bronze (availability shown with ✔)

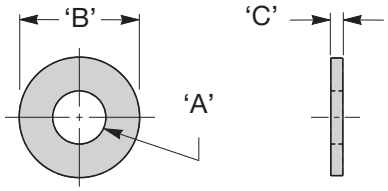
Hex Nuts



- Material: ASTM A536 Gr. A steel.
  ASTM F468 silicon bronze
- Finish: Yellow Zinc (YZB)

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

Flat Washer

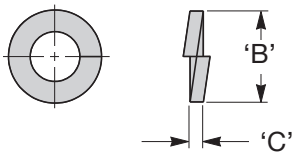


- Material: ASTM 844 steel.
  651 alloy silicon bronze
- Finish: Yellow Zinc (YZB)

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

Lock Washer

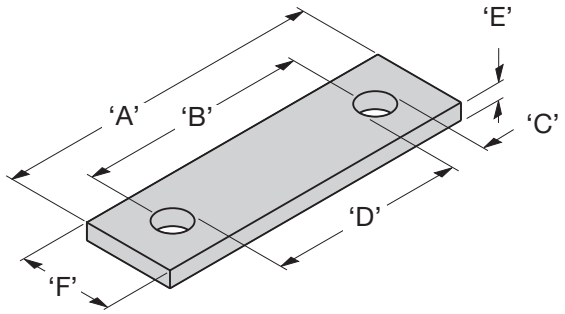
- Material: ANSI 18.21.1 steel.
  651 alloy silicon bronze
- Finish: Steel - Yellow Zinc (YZN)



Part Number YZN	Part Number Silicon Bronze	Thread Size	'B' In.	'B' (mm)	'C' In.	'C' (mm)	Weight Per 100 Lbs.	Weight Per 100 (kg)
--	10LWSB	#10-24	21/64"	(8.2)	.05"	(1.3)	0.1	(0.04)
1/4LWYZN	1/4LWSB	1/4"-20	15/32"	(11.9)	.05"	(1.3)	3.0	(1.36)
5/16LWYZN	5/16LWSB	5/16"-18	19/32"	(15.1)	.09"	(2.3)	4.0	(1.81)
3/8LWYZN	3/8LWSB	3/8"-16	11/16"	(17.4)	.10"	(2.5)	6.0	(2.72)
1/2LWYZN	1/2LWSB	1/2"-13	7/8"	(22.2)	.13"	(3.3)	13.0	(5.89)
5/8LWYZN	--	5/8"-11	13/32"	(27.8)	.17"	(4.3)	25.0	(11.34)

Two Hole Plate

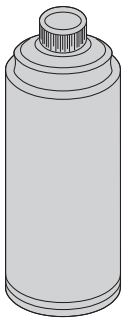
- Material: ASTM A36 structural steel
- Finish: Yellow Zinc (YZ)



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

Touch-Up Paint

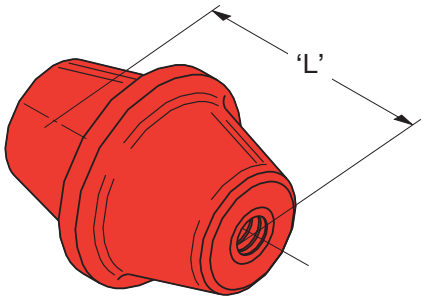
- Lacquer - Semi Gloss 13 oz. spray
- Fast drying
- High solids for coverage
- Can not be shipped air freight.



Part Number	Color	Weight Lbs.	Weight (kg)
SB420TG	Gray	0.9	(0.41)
SB420FB	Black	0.9	(0.41)

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.

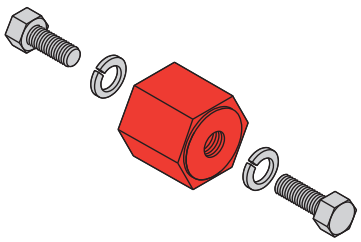


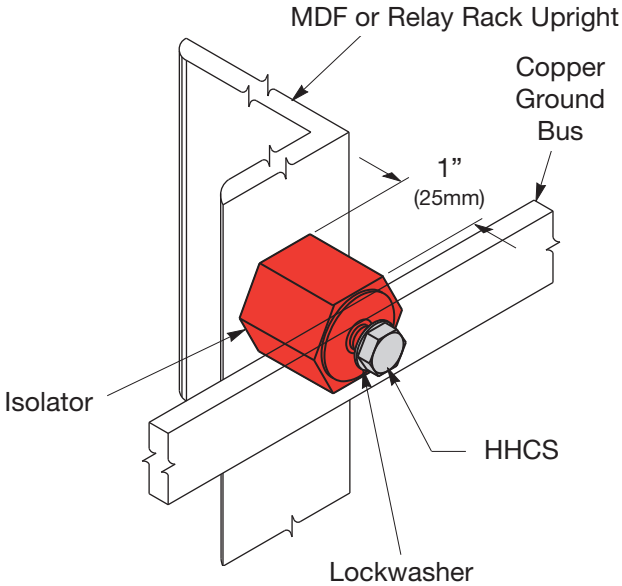
Part Number	Thread Size	'L' In.	'L' (mm)	Weight Lbs.	Weight (kg)
SB1155	3/8"-16	2 1/2"	(63)	0.30	(0.13)
SB1156	1/2"-13	2 1/2"	(63)	0.31	(0.14)
SB1157	5/8"-11	2 5/8"	(66)	0.39	(0.17)

Popular Bee List item

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

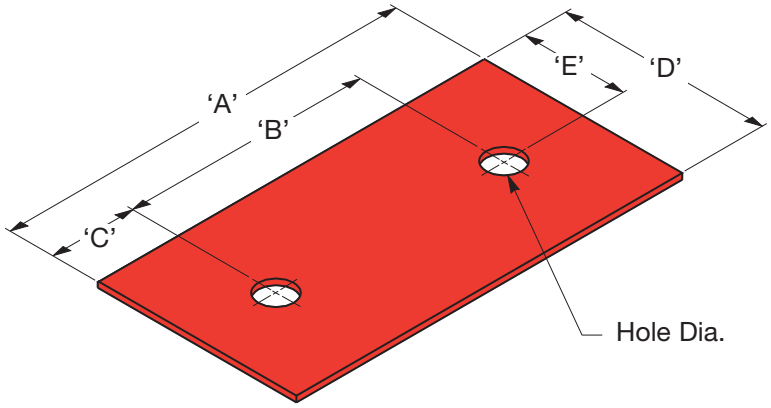




Part Number	Thread Size	Weight Lbs.	Weight (kg)
SB1154	1/4"-20	0.09	(0.04)
SB1153	#12-24	0.09	(0.04)

Two-Hole Isolation Pad

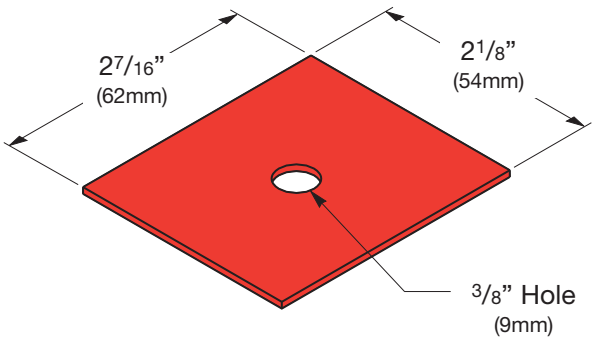
- Use to provide electrical isolation between metallic fittings.
- See SB-2531 for kit.
- UL recognized material.
- UL 94 V0 Flame Resistance.
- Material: 1/16" (1.6mm) polyester fiberglass
- Finish Color: Red



Part Number	'A'		'B'		'C'		'D'		'E'		Hole Diameter		Weight	
	In.	(mm)	In.	(mm)	In.	(mm)	In.	(mm)	In.	(mm)	In.	(mm)	Lbs.	(kg)
SB116301	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)
SB116302	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)
SB116303	6 5/8"	(168)	4 5/8"	(117)	1"	(25)	2 1/8"	(54)	1 1/16"	(27)	11/16"	(17)	0.06	(0.03)
SB116304	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)
SB116305	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)
SB116306	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)
SB116307	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)
SB116308	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)
SB116309	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

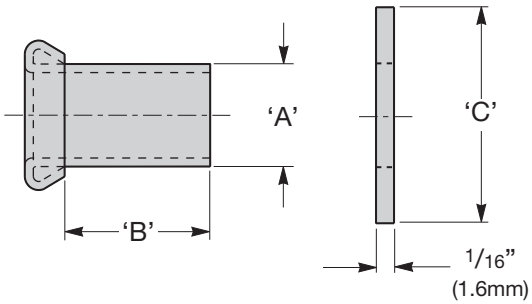
- Use to provide electrical isolation between metallic fittings.
- See SB-2501 for kit.
- UL recognized material.
- UL 94 V0 Flame Resistance.
- Material: 1/16" (1.6mm) polyester fiberglass
- Finish Color: Red



Part Number	Weight	
	Lbs.	(kg)
SB1162	0.03	(0.01)

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



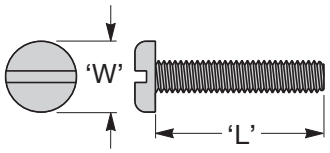
Screws



	Part Number	Description	Finish	Weight Each 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

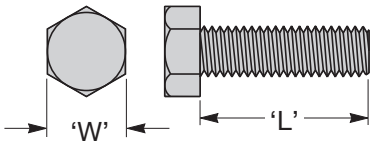
Nylon Fasteners

- 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)

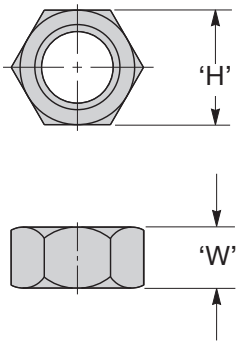


Hex Head Cap Screw

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)
1/4 X1HHCSNYL	1/4"-20	1"	(25)	3/8"	(9)	0.3	(0.13)
1/4X11/2HHCSNYL	1/4"-20	11/2"	(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)

