ACCESSORIES

Recommended Tightening Torque DURIUM™ Silicon Bronze Bolts

Recommended Tightening Torque

The hardware used in connectors must be compatible with the connector material, have high mechanical strength and be corrosion resistant and correspond to NEMA recommendations.

Copper alloy connectors have hardware made of DURIUM™, which is the BURNDY trade name for silicon bronze alloy ASTMB99 type B. This material was first introduced by BURNDY® in 1927 for use in outdoor construction, and today, is the standard throughout the industry.

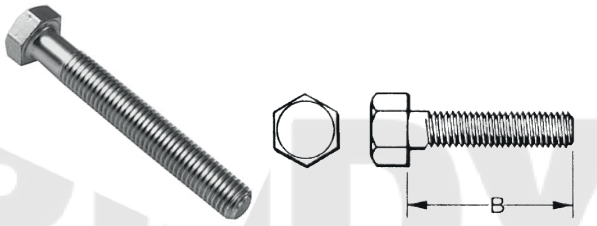
Aluminum connectors generally have aluminum alloy hardware. The bolts are 2024T4 and anodized to resist corrosion. The nuts are 6061T6, which is resistant to corrosion and does not require anodizing. Both nuts and bolts are lubricated to eliminate galling and to provide consistent clamping forces.

To reduce or greatly exceed the recommended torque can adversely affect the performance of the connector.

DURIUM™ and Steel Hardware		Aluminum Hardware	
Bolt Size	Rec. Torque (Inch Pounds)	Bolt Size	Rec. Torque (Inch Pounds)
1/4 - 20	80	1/2 - 13	300
5/16 - 18	180	5/8 - 11	480
3/8 - 16	240	3/4 - 10	650
1/2 - 13	480		
5/8 - 11	660		
3/4 - 10	1,050		

DURIUM™ Bolt Silicon Bronze Bolts

BURNDY® introduced silicon-bronze bolts, nuts and other hardware items on outdoor connector applications in 1927. Today the DURIUM™ trademark is a standard for this use. DURIUM™ bolts combine high strength with corrosion resistance. Heads have American Standard dimension and the threads are per American National Coarse Series, Class #2 fit. The silicon bronze is per ASTM B99.



Catalog Number	Thread Size	B Length (Inches)
25X50HEBBOX	1/4-20	1/2
25X62HEBBOX	1/4-20	5/8
25X75HEBBOX	1/4-20	3/4
25X100HEBBOX	1/4-20	1
25X125HEBBOX	1/4-20	1-1/4
25X150HEBBOX	1/4-20	1-1/2
25X200HEBBOX	1/4-20	2
25X250HEBBOX	1/4-20	2-1/2
25X300HEBBOX	1/4-20	3
31X50HEBBOX	5/16-18	1/2
31X62HEBBOX	5/16-18	5/8
31X75HEBBOX	5/16-18	3/4
31X100HEBBOX	5/16-18	1
31X125HEBBOX	5/16-18	1-1/4
31X150HEBBOX	5/16-18	1-1/2
31X175HEBBOX	5/16-18	1-3/4
31X200HEBBOX	5/16-18	2
31X250HEBBOX	5/16-18	2-1/2
31X300HEBBOX	5/16-18	3
38X50HEBBOX	3/8-16	1/2
38X62HEBBOX	3/8-16	5/8
38X75HEBBOX	3/8-16	3/4
38X88HEBBOX	3/8-16	7/8
38X100HEBBOX	3/8-16	1

Catalog Number	Thread Size	B Length (Inches)
38X125HEBBOX	3/8-16	1-1/4
38X150HEBBOX	3/8-16	1-1/2
38X175HEBBOX	3/8-16	1-3/4
38X200HEBBOX	3/8-16	2
38X225HEBBOX	3/8-16	2-1/4
38X250HEBBOX	3/8-16	2-1/2
38X275HEBBOX	3/8-16	2-3/4
38X300HEBBOX	3/8-16	3
38X325HEBBOX	3/8-16	3-1/4
38X350HEBBOX	3/8-16	3-1/2
38X400HEBBOX	3/8-16	4
38X450HEBBOX	3/8-16	4-1/2
38X500HEBBOX	3/8-16	5
44X150HEBBOX	7/16-14	1-1/2
44X200HEBBOX	7/16-14	2
50X75HEBBOX	1/2-13	3/4
50X100HEBBOX	1/2-13	1
50X125HEBBOX	1/2-13	1-1/4
50X150HEBBOX	1/2-13	1-1/2
50X175HEBBOX	1/2-13	1-3/4
50X200HEBBOX	1/2-13	2
50X225HEBBOX	1/2-13	2-1/4
50X250HEBBOX	1/2-13	2-1/2
50X275HEBBOX	1/2-13	2-3/4

Catalog Number	Thread Size	B Length (Inches)
50X300HEBBOX	1/2-13	3
50X325HEBBOX	1/2-13	3-1/4
50X350HEBBOX	1/2-13	3-1/2
50X375HEBBOX	1/2-13	3-3/4
50X400HEBBOX	1/2-13	4
50X450HEBBOX	1/2-13	4-1/2
50X500HEBBOX	1/2-13	5
50X550HEBBOX	1/2-13	4-1/2
50X600HEBBOX	1/2-13	6
62X100HEBBOX	5/8-11	1
62X125HEBBOX	5/8-11	1-1/4
62X150HEBBOX	5/8-11	1-1/2
62X175HEBBOX	5/8-11	1-3/4
62X200HEBBOX	5/8-11	2
62X225HEBBOX	5/8-11	2-1/4
62X250HEBBOX	5/8-11	2-1/2
62X275HEBBOX	5/8-11	2-3/4
62X300HEBBOX	5/8-11	3
62X325HEBBOX	5/8-11	3-1/4
62X350HEBBOX	5/8-11	3-1/2
62X400HEBBOX	5/8-11	4
62X450HEBBOX	5/8-11	4-1/2
62X500HEBBOX	5/8-11	5
62X600HEBBOX	5/8-11	6

+51 991 872 290

Siguenos en nuestras redes

Escanea el QR
Visita nuestro Catálogo