

Material Info

Cadmium Plating Information

Cadmium plated parts have a minimum of 0.0003" plating thickness. Cadmium plating conforms to UL standards for connecting dissimilar materials. Cadmium connections to copper, aluminum, stainless steel, magnesium, lead, wrought iron, galvalum, zinc and zinc plated steel all have an electrochemical potential under 0.60 V to minimize corrosion due to electrochemical action.

Tin Plating Information

Our tinned copper parts are hot dipped and have a minimum thickness of 0.0001". Tinned copper parts conform to UL 96 requirements for use in corrosive environments.

Lead Plating Information

Our lead dipped or plated parts have a minimum of 0.0001" thick lead coating.

Stainless Steel Fasteners

Our fasteners are standard 18-8 stainless steel fasteners and are dimensioned per ASME B18.2.1. Our tek screws are 400 series, magnetizable stainless steel. Manufacturer torque suggestions are found in the table at the right.

Suggested Maximum Bolt Torque Values		
Bolt Size	Stainless	Silicon Bronze
1/4-20	75.2 in/lbs	68.8 in/lbs
15/16-18	132	123
3/8-16	236	219
7/17-14	376	349
1/2-13	43 ft/lbs	40 ft/lbs
9/16-12	56	53
5/8-11	92	86

Copper

Our copper parts are made from electrical grade copper. All copper parts can be custom plated with cadmium, nickel, lead, or tin.

Aluminum

Our aluminum parts are made from electrical grade aluminum.

Copper Alloys

We use three bronze or brass alloys for our cast copper parts. We use 85 red brass for our ground rod clamps, 131 bronze for part No. 47 and No. 44, and 81 red brass for all other cast copper parts. All bronze or brass parts can be custom plated with cadmium, nickel, lead or tin.

Aluminum Alloys

We use two aluminum alloys for our cast aluminum parts. We use 356 aluminum for part No. A47 and No. A44 and 319 aluminum for all other cast aluminum parts.

Stainless Steel Alloy

We use 304 stainless steel (18/8) in all our stainless steel parts.

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