# MIDWEST FASTENERS
## GENERAL SPECIFICATIONS

### CAPACITOR DISCHARGE

**MATERIAL:** Standard in low carbon steel, 302/304/305 stainless, and 1100, 6061, and 5000 series aluminum. Brass and other grades of stainless steel are also available.

### ARC

**MATERIAL:** Standard in low carbon steel and 302/304/305 stainless. Aluminum, monel, inconel, and other grades of stainless steel are available.

### PLATING:

**CAPACITOR DISCHARGE:** Copper plating is standard. Cadmium, nickel, zinc, and other platings are available.

**ARC:** Cadmium to ASTM-A 165 type TS, zinc to ASTM-B 633 (formerly A 164) and other platings are available. Non-weldable plating is removed from the weld end to avoid contamination of the weld.

### ANNEALING:

**CAPACITOR DISCHARGE:** All low carbon steel and stainless steel studs are annealed where required.

**ARC:** Low carbon steel can be annealed to a maximum of 75 Rockwell B and stainless steel to a maximum of 90 Rockwell B.

### THREADS:

**CAPACITOR DISCHARGE:** UNC-2A is standard for external threads prior to plating and UNC-2B for internal threads. For metric and other thread sizes contact the MIDWEST FASTENERS Customer Service Department.

**ARC:** UNC-2A is standard for external threads prior to plating and UNC-2B for internal threads. For metric and other thread sizes contact the MIDWEST FASTENERS Customer Service Department.

### WELD BASE:

**CAPACITOR DISCHARGE:** Flanged, small-flanged, and non-flanges are available.

**ARC:** 1/4" dia. and over have solid flux. Diameters under 1/4" are standard pointed, and flux is optional.

### STUD LENGTH:

**CAPACITOR DISCHARGE:** CD studs have no appreciable length reduction after welding.

**ARC:** MIDWEST FASTENERS are stud length designations are BEFORE WELD; AFTERWELD lengths are shown in the table below.

### APPROX. REDUCTION

<table>
<thead>
<tr>
<th>STUD DIAMETER</th>
<th>APPROX. REDUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16&quot; thru 1/2&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>5/8&quot; thru 7/8&quot;</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>7/8&quot; and over</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>1/8&quot; wide rectangulars</td>
<td>1/8&quot;</td>
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### FERRULES:

**CAPACITOR DISCHARGE:** Does not apply to CD

**ARC:** All orders include ferrules when they are required.

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All information contained herein subject to change without notice.