

## Universal Mount Series

Test Report: 09-145

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Product: UPTF 500 (1" Stud)  
Type Test: ANSI C119.6 Class A - Heavy Duty Test  
Method CCT - Current Cycle Test

Test Facility: UTILCO - 4730 Madison Road, Cincinnati, Ohio 45227

Tested By: Bryan Donell Date: 10/12/2009

Supervisor: Robert Westbrook Date: 1/19/2010

Reviewed By: Don Smiley Date: 1/20/2010

### Purpose:

Test The UPTF 500 (1" Stud) to ANSI C119-6 Class-A - Heavy Duty Test

The test current used was 1142 amperes

Current On/Off Time 1.5 Hours

### Installation:

The UPTF 500 (1" Stud) Connector was tested using Aluminum conductors and were wire brushed with DE-OX V applied. Wire Size Used for testing (2)350 kcmil Bare Aluminum Cable(s) The 5/16 inch internal Hex screw was 

240	in-lbs
240	in-lbs

 using a calibrated Stud Locking screw Torque 

240	in-lbs
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 torque wrench

### Test Loop:

The test loop was run vertically using properly sized Copper plates as equalizers as noted on the loop diagram. Each vertical leg consisted of two samples with a copper stud between them. Thermocouples were peened in place for temperature measurements utilizing Lab View equipment and software program developed by ILSCO.

### Procedure:

Four UPTF 500 (1" Stud) were assembled with a copper stud as the main feeder using (2)350 kcmil Bare Aluminum Cable(s) During the heat cycle testing the LabView system recorded temperature data. The resistance measurements were taken by a calibrated micro-ohm meter and recorded as specified in ANSI C119.6

### Results:

The connector temperatures did not exceed the temperature of the control conductor, stability was within +/- 10 and the resistance of the connections did not exceed ± 5% of the average resistance.

The maximum stability value **6.1**

The Max Connector Temp was **123.0**

UTILCO's UPTF 500 (1" Stud) Connector successfully completed the ANSI Heat Cycle test







