

The UTILCO Company
4730 Madison Rd
Cincinnati, OH 45227

Test Report: 09-117

Page 1 of 5

Date: 3/3/2010
Product: PED-350SS Redesign (3) Hole
Type Test: ANSI C119. 4 Class A
Test Facility: UTILCO

Tested By: Bryan Donell Date: 21-Sep-09

Supervisor: Robert Westbrook Date: 3/3/2010

Reviewed By: Donald J. Smiley Date: 3/3/2010

Purpose:

| | |
|-------------------------------------|---------------------------------------|
| Qualification Test – Part # / Cat # | PED-350SS Redesign (3) Hole |
| Main wire range | 350 kcmil - #12 |
| Tap Wire Range | - |
| Connector Material | 6061 T6 |
| Screw (wire binding) | E6132 5/16" Internal Hex drive |
| Wire Binding Screw Torque | 240 in-lbs |
| Lubricant (Screws) | 616 Safety Film & DTE-24 |
| Plating- Body | None |
| Mounting screws | N/A |
| Mounting Torque | N/A in-lbs |
| Wire Size Used for testing | 350 kcmil |
| Conductor Strength | |
| Manufacturer (Wire) | |
| Insulation Type, Thickness | None |

Device:

UTILCO's PED-350SS Redesign (3) Hole is made from extruded High strength aluminum.
The 5/16" Internal Hex drive screw is manufactured from Aluminum and is lubricated with 616 Safety Film & DTE-24.

Procedure:

The PED-350SS Redesign (3) Hole Connector was tested using bare Aluminum conductors.
The conductors were wire brushed and DE-OX V was applied.
The 5/16" Internal Hex drive screw was torqued to: **240** in-lbs

Four PED-350SS Redesign (3) Holes were used in this test. Thermocouples were placed on the wire entry area.
Conductor Length: 24"

The test consisted of 500 cycles. Each Cycle had **1.5 Hours "On"** Time and **1.5 hours "Off"** time
The test current was raised over the first 25 cycles so the control conductor attained a 100 ° -105°C temperature rise over ambient temperature.

The test current used was **603 amperes**.

Results:

UTILCO's PED-350SS Redesign (3) Hole Connector successfully completed the ANSI Heat Cycle test using bare aluminum conductors. 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.

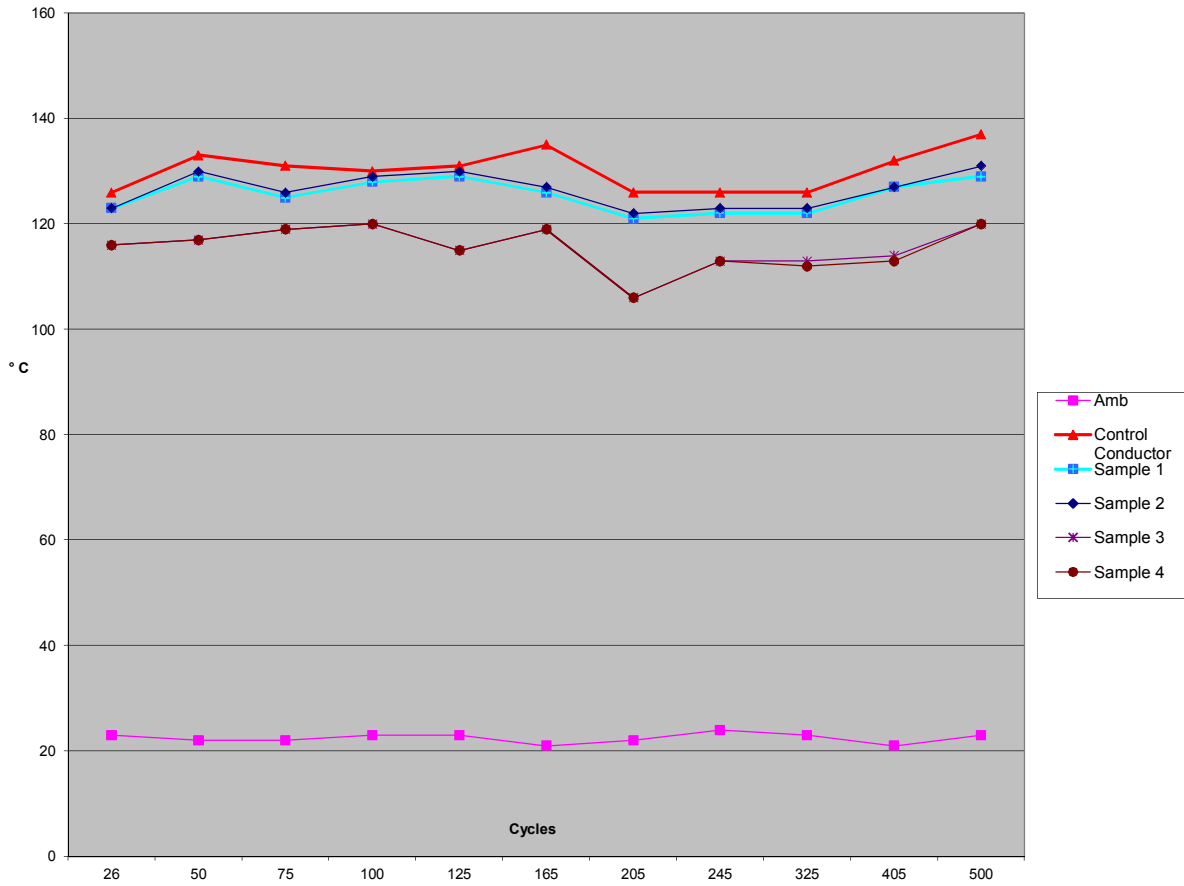
The maximum stability value was: **5.4**

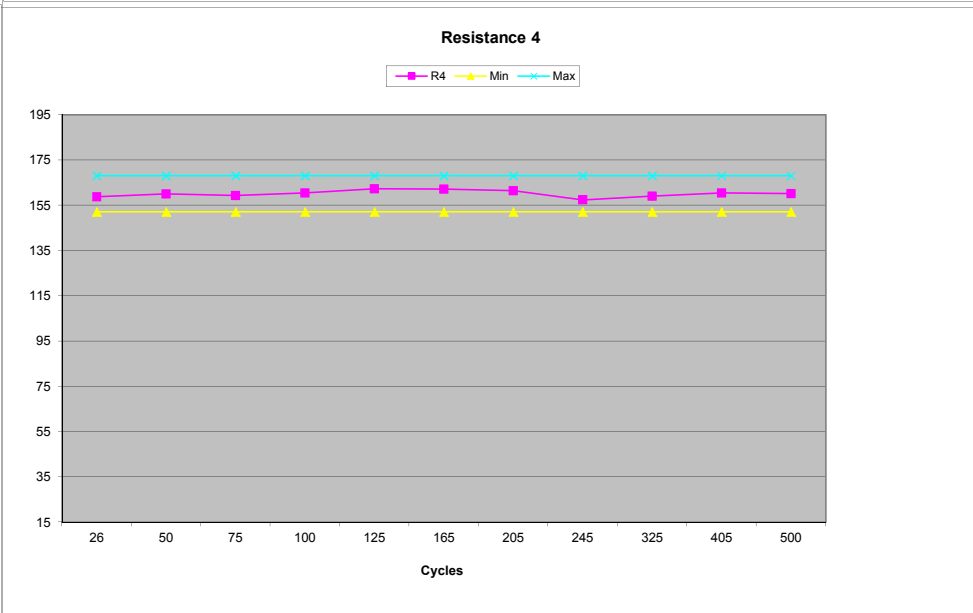
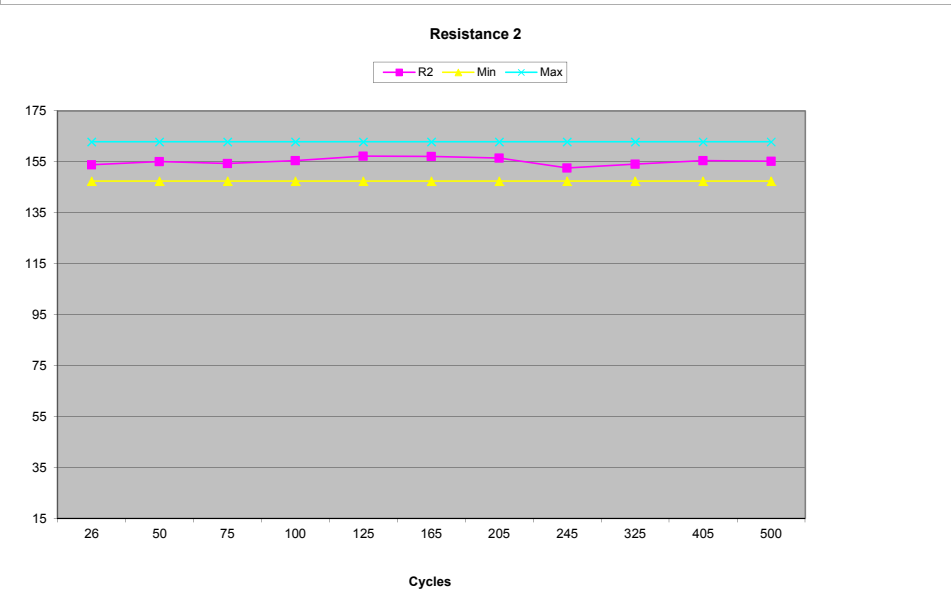
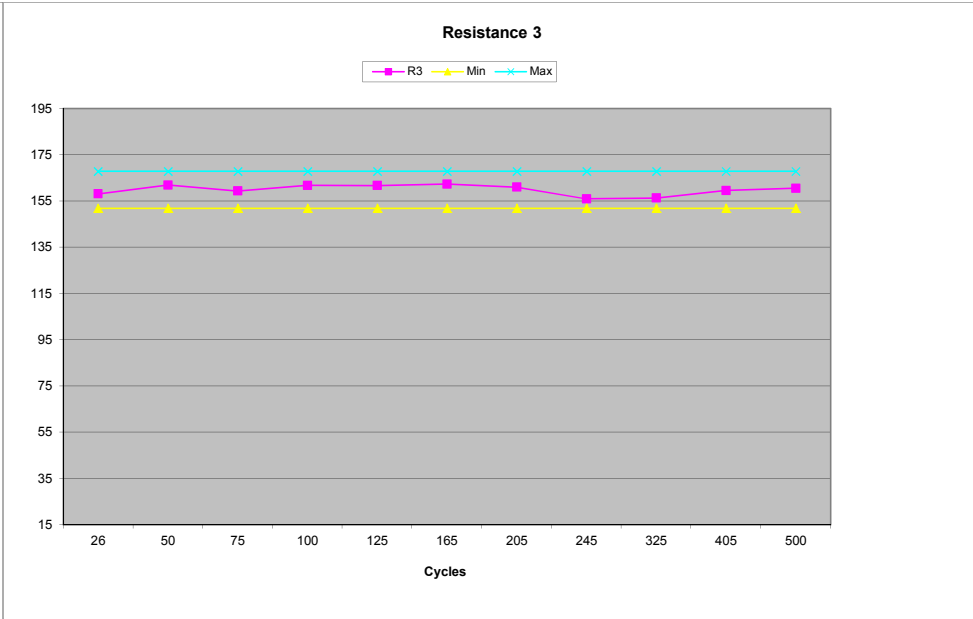
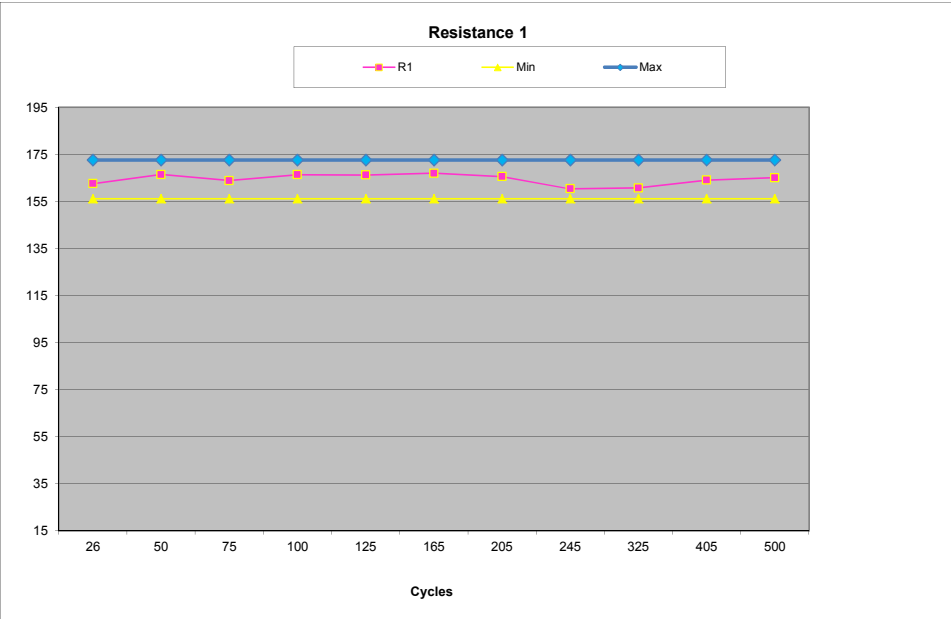
Condition after testing:

All Samples appeared to be undamaged after testing

See data sheets and charts attached for the test details.

Sample 1 Temperatures





Report # 09-117

Report 09-117

