

The UTILCO Company
4730 Madison Rd
Cincinnati, OH 45227

Test Report: 09-117

Page 1 of 5

Date: 26-Jul-10
Product: PED-350SS Redesign (4) Hole(Tin)
Type Test: ANSI C119. 6 Class A
Test Facility: UTILCO

Tested By: Bryan Donell Date: 12-Apr-10

Supervisor: Robert Westbrook Date: 7/26/2010

Reviewed By: _____ Date: _____

Purpose:

Qualification Test – Part # / Cat #	PED-350SS Redesign (4) Hole(Tin)
Main wire range	350 kcmil - #12
Tap Wire Range	-
Connector Material	6061 T6
Screw (wire binding)	E6132 (wax and DTE-24) 5/16" Internal Hex drive
Wire Binding Screw Torque	240 in-lbs
Lubricant (Screws)	616 Safety Film & DTE-24
Plating	Tin Plated
Mounting screws	0
Mounting Torque	N/A in-lbs
Wire Size Used for testing	(2) 350 kcmil
Conductor Strength	
Manufacturer (Wire)	
Insulation Type, Thickness	None

Device:

UTILCO's PED-350SS Redesign (4) Hole(Tin) is made from extruded High strength aluminum and is Tin Plated The 5/16" Internal Hex drive screw is manufactured from Aluminum and is clear plated.

Procedure:

The **PED-350SS Redesign (4) Hole(Tin)** 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 (4) Hole(Tin)s 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 **1128 amperes**.

Results:

JTILCO's PED-350SS Redesign (4) Hole(Tin) 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.

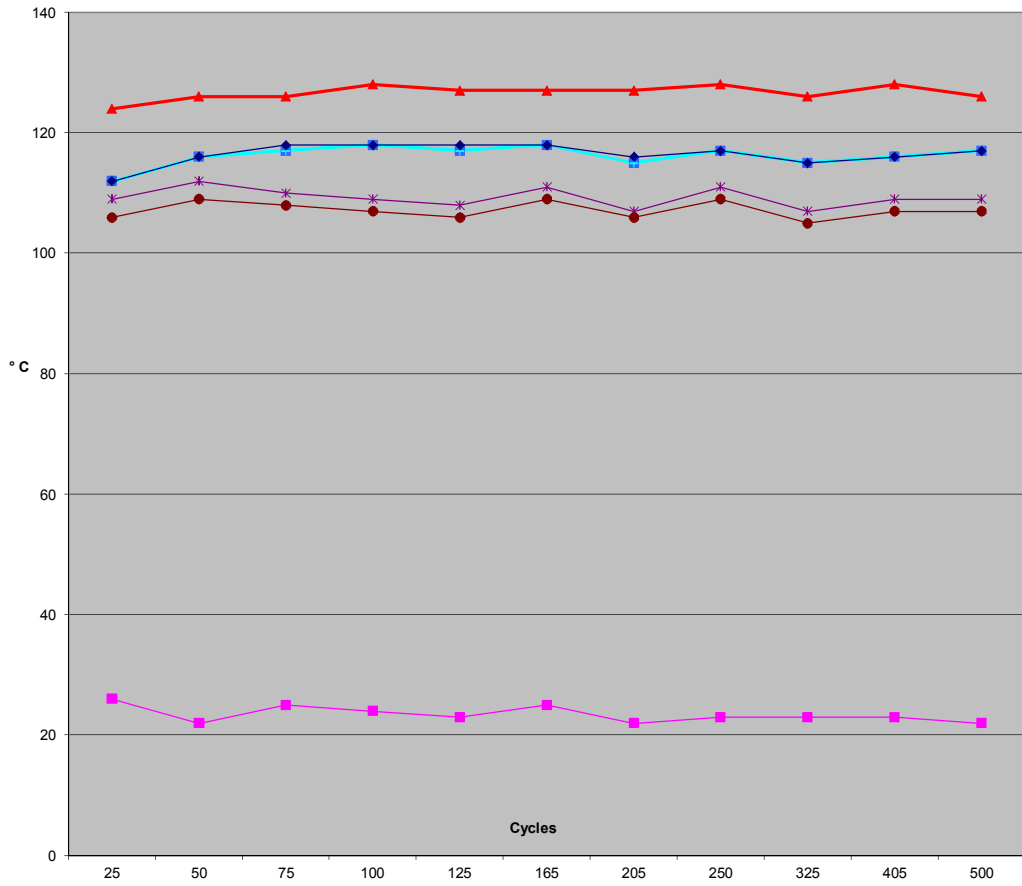
The maximum stability value was: **3.4**

Condition after testing:

All Samples appeared to be undamaged after testing

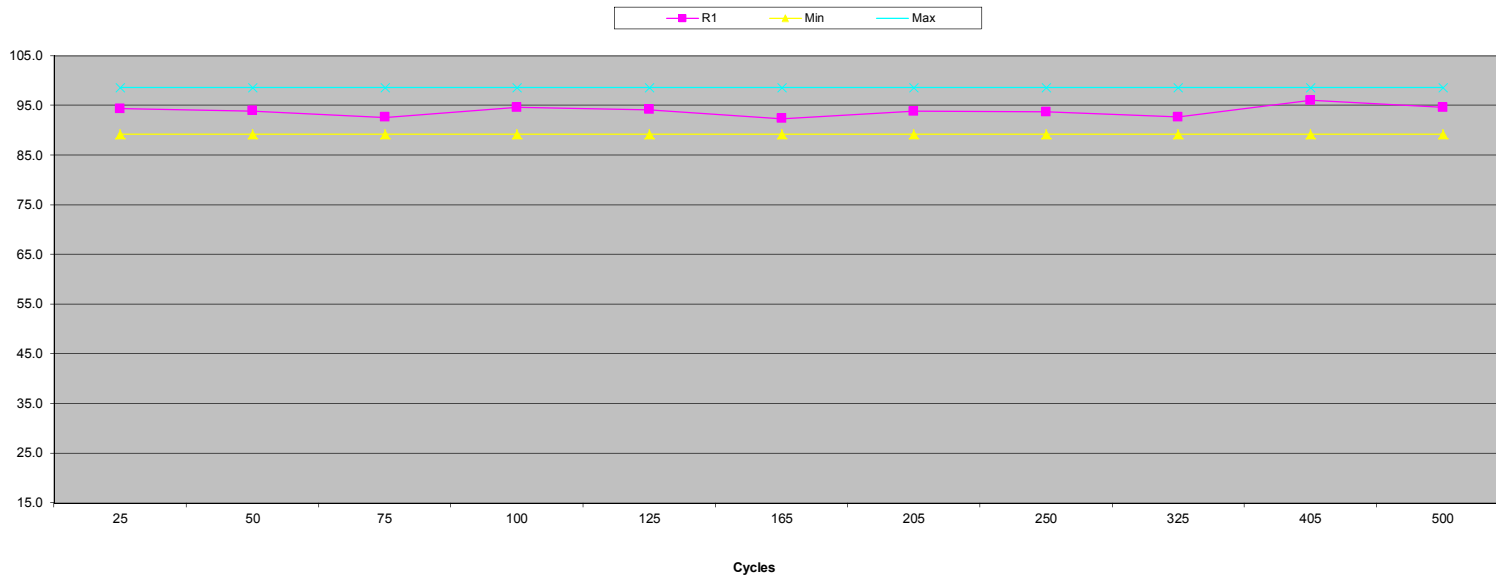
See data sheets and charts attached for the test details.

Sample 1 Temperatures



- Amb
- Control
- Conductor
- Sample 1
- Sample 2
- Sample 3
- Sample 4

Resistance 1



Resistance 2

