Report No. 544603-001 **No. of Pages: 8**

REPORT OF TEST ON

MATED CONNECTORS

RAIN TEST

for

AMPHENOL AEROSPACE

Date: January 16, 2007

Prepared by: **Donald R. Zoon**
Test Engineer

Checked by: **Alan Benda**
Environmental Test Technician

Signed: Signature on File

Signed: Signature on File

Date: 1/18/07

Date: 1/18/07

ISO 9001:2000

ADMINISTRATIVE DATA

1.0 PURPOSE: To subject the units to a rain test.

2.0 MANUFACTURER: Amphenol Aerospace
40-60 Delaware Ave.
Sidney, N.Y. 13838-1395

3.0 TEST UNIT IDENTIFICATION: Samples marked 500, 750,1K, 1.5K.

4.0 SPECIFICATION: MIL-STD-810F

5.0 QUANTITY OF ITEMS TESTED: 4 (mated connectors)

6.0 SECURITY CLASSIFICATION: Unclassified

7.0 DATE TEST COMPLETED: January 15, 2007

8.0 TEST CONDUCTED BY: Sypris Test & Measurement
1133 Route 23 South
Wayne, NJ 07470

9.0 DISPOSITION OF TEST ITEMS: Returned to Amphenol Aerospace

10.0 ABSTRACT: The connector pairs completed the rain test with no evidence of external damage. In addition, the connector pairs exhibited no evidence of water penetration inside the connectors.

LIST OF APPARATUS

ITEM	MANUFACTURER	MODEL NO.	**Calibration** DATE	DUE DATE
Anemometer	Dwyer	470-1	12/27/06	12/27/07
Rain Gage	Cole Parmer	03319-00	Not	Required
Stop Watch	Accusplit	705X	5/25/06	5/25/07
Rain Apparatus	Bell Tech.	*	Before	Use
Blower	Dayton	FD10011CA	Before	Use

* Fabricated in accordance with MIL-STD-810.

RAIN TEST

TEST PROCEDURE

The rain test was conducted in accordance with Method 506.4, Procedure I of MIL-STD-810F.

The connector pairs were placed in a rain test setup, as shown in Figure 1.

The connector pairs were then subjected to the following conditions.

Rainfall:	17.24 inches/hour
Wind velocity:	40 MPH
Duration:	30 minutes/side
Number of sides tested:	4 (front, back, right side, left side)
Total test duration:	2 hours

At the completion of the test the connector pairs were examined for damage. The connector pairs were then separated and checked for water penetration.

Photographs of the unmated connectors following the test may be seen in figures 2 through 5.

TEST RESULTS

The connector pairs completed the rain test with no evidence of external damage
In addition, the connector pairs exhibited no evidence of water penetration inside the connectors.

Figure 1
Typical Rain Test Setup

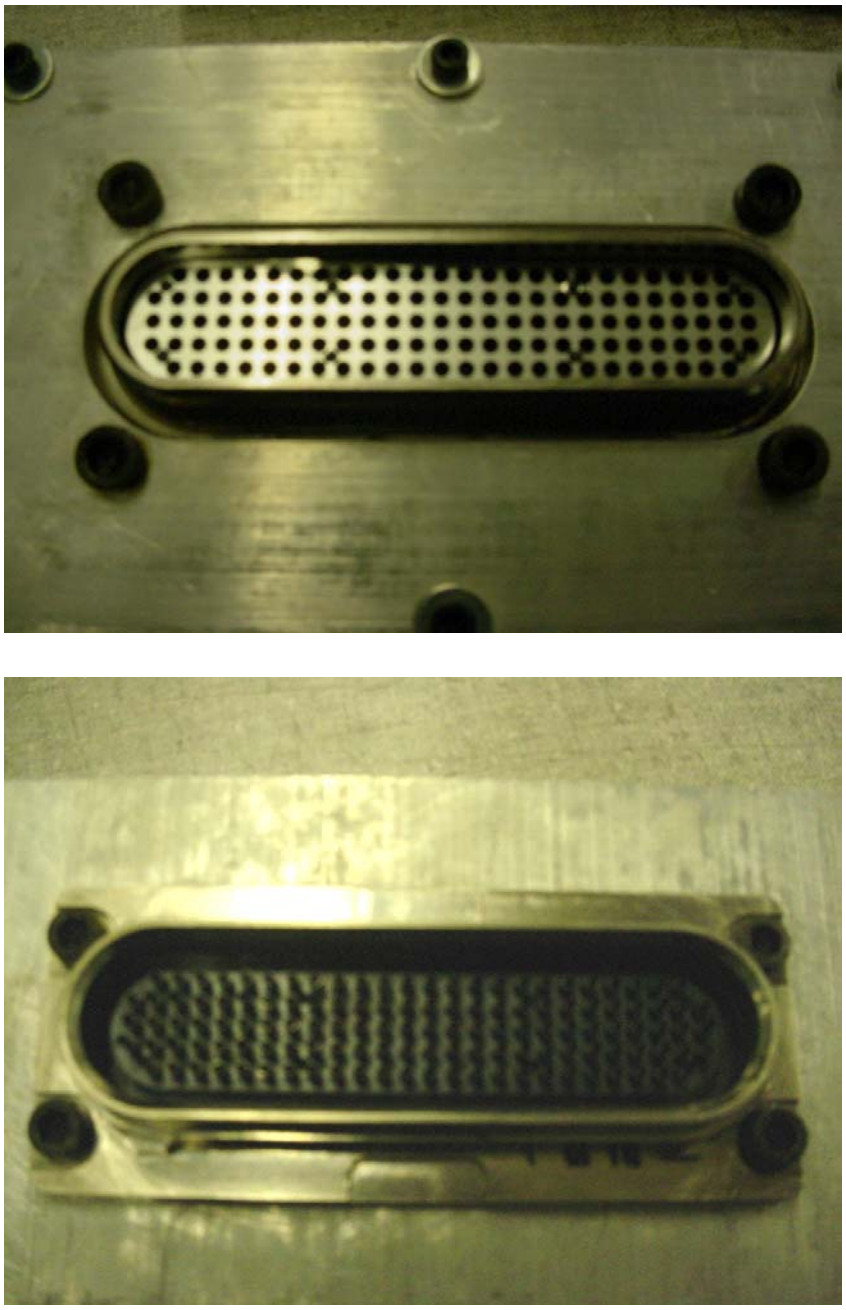

Figure 2
1.5K Connector

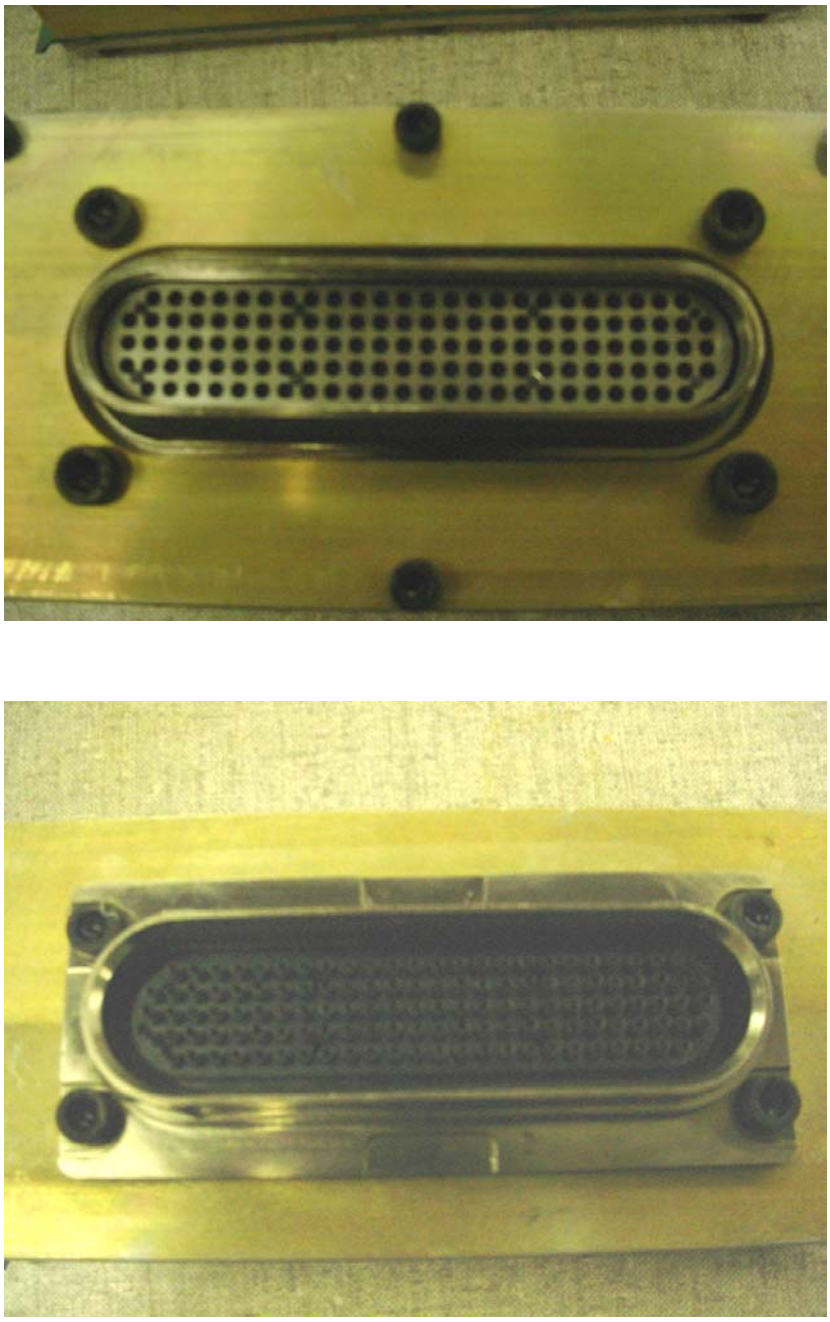

Figure 3
1K Connector

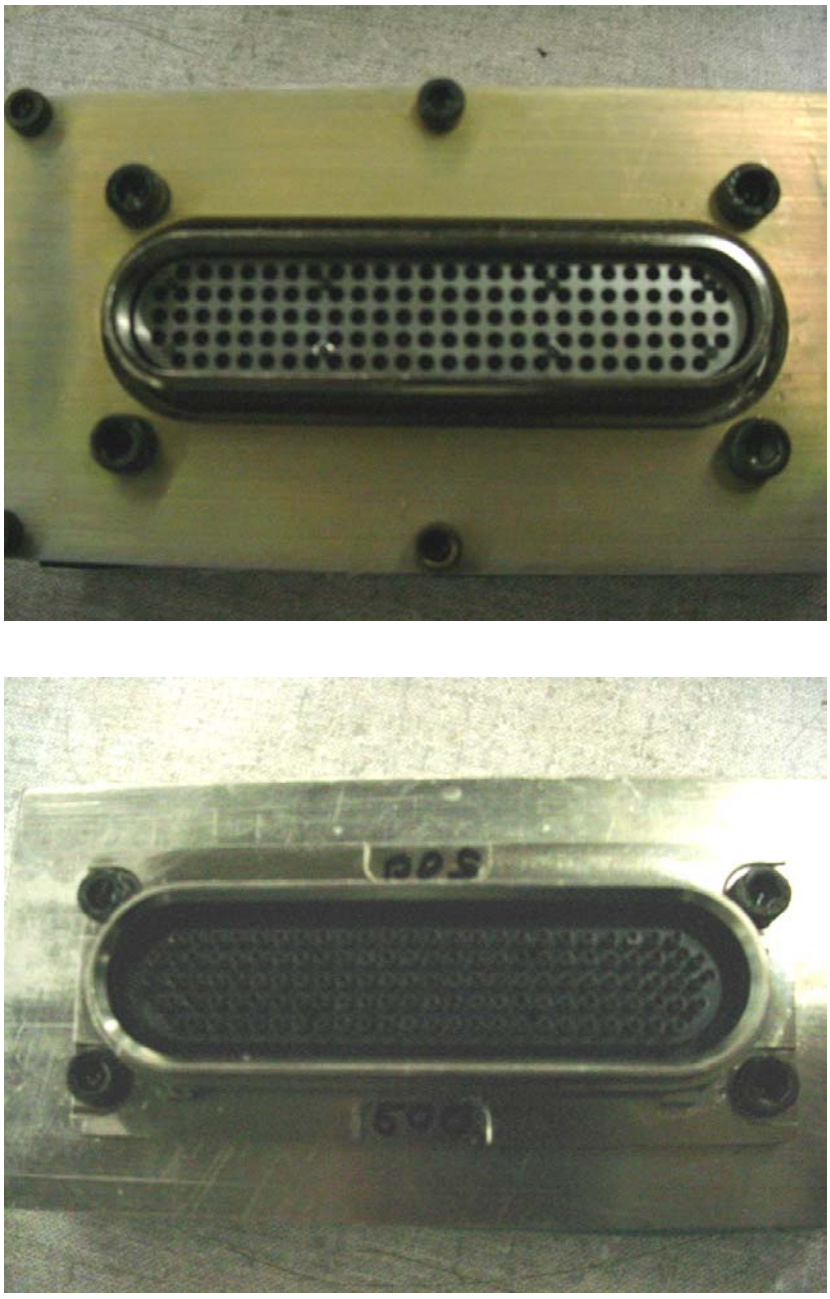

Figure 4
500 Connector

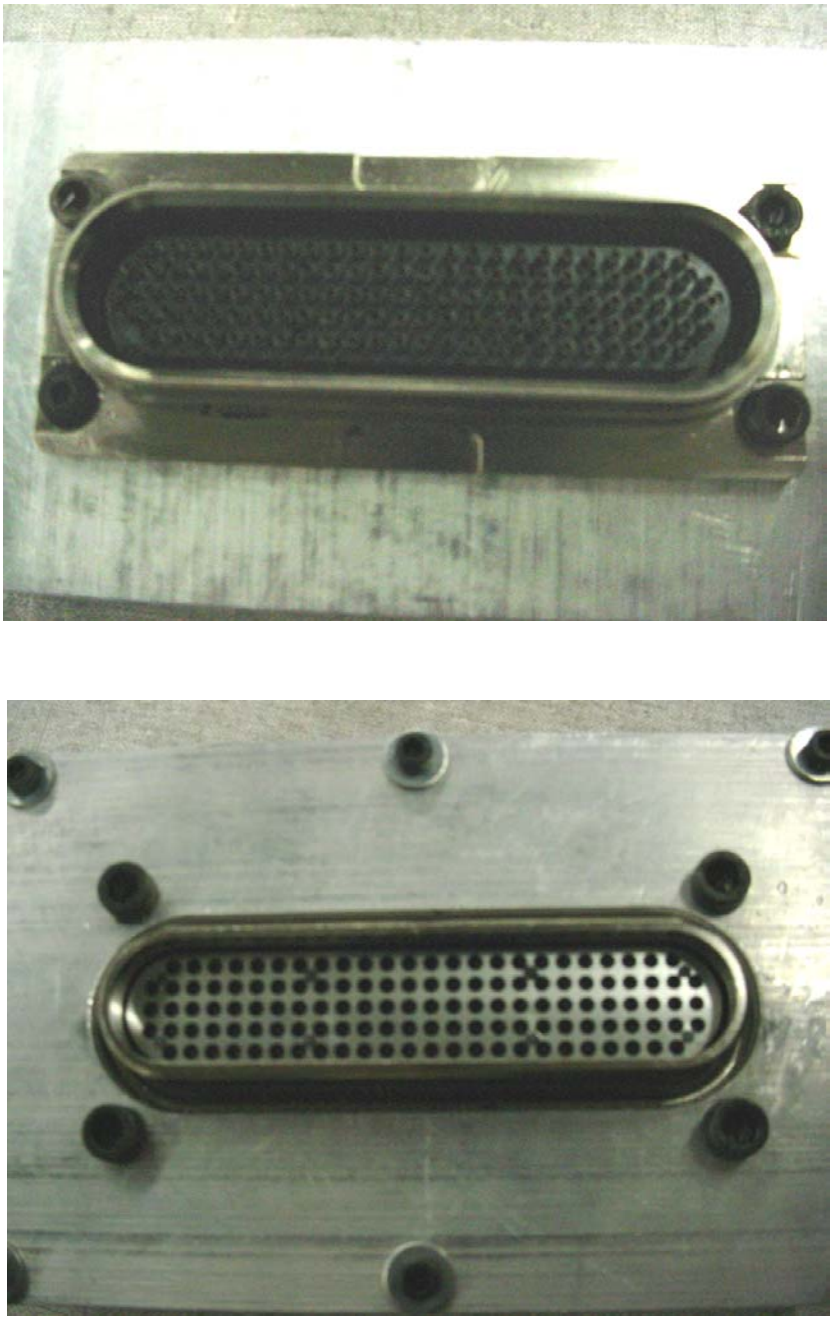

Figure 5
750 Connector