

NOVEMBER 30, 1999


TEST REPORT #99655

DURABILITY

PART NUMBER

TFML-125-02-S-D-LC

SAMTEC


APPROVED BY: MAX PEEL
PRESIDENT
CONTECH RESEARCH, INC.



Contech Research

CERTIFICATION

This is to certify that the evaluation described herein was designed and executed by personnel of Contech Research, Inc. It was performed with the concurrence of Samtec, of New Albany, IN who was the test sponsor.

All equipment and measuring instruments used during testing were calibrated and traceable to NIST according to ISO 10012-1 and ANSI/NCSL Z540-1, as applicable.

All data, raw and summarized, analysis and conclusions presented herein are the property of the test sponsor. No copy of this report, except in full, shall be forwarded to any agency, customer, etc., without the written approval of the test sponsor and Contech Research.



Max Peel
President
Contech Research, Inc.

MP:js



EQUIPMENT LIST

November 30, 1999

ID#	Next Cal	Last Cal	Equipment Name	Manufacturer	Model #	Serial #	Accuracy	Freq. Cal
11	12/16/1999	12/16/1998	Force Gage - 25 lbs	Chatillon	DPP-25	20723	0.5% of full scale	12 mon.
34			Shock Machine	Avco	SM110-3	1047	See ID# 14 & 117	Each Test
38			Universal Test Stand	Chatillon	UTSM-SS	1030	N/A	N/A
199			Cycling Machine	Contech Research	PM925A11	2407	N/A	N/A
302	01/05/2000	01/05/1999	Dial Indicator	Mitutoya Corp.	1" to 3"	4887	See Manual	12 mon.
315			X-Y Table	NE Affiliated Tech.	XY-6060	N/A	N/A	N/A

TEST RESULTS



PROJECT NO.: 99655 SPECIFICATION: N/A

PART NO.: TFML-125-02-S-D-LC PART DESCRIPTION: Connector

SAMPLE SIZE: Two TECHNICIAN: LL

START DATE: 11-22-99 COMPLETE DATE: 11-24-99

ROOM AMBIENT: 22°C RELATIVE HUMIDITY: 36%

EQUIPMENT ID#: 11, 34, 38, 199, 302, 315

DURABILITY

PROCEDURE:

1. The test was performed in accordance with EIA 364, Test Procedure 09.
2. Test Conditions:
 - a) No. of Cycles : 10,000
 - b) Rate : 500 cycles/hr
3. The test samples were assembled to special holding devices and attached to the automatic cycling equipment utilizing constant speed control and counter systems.
4. The test samples were axially aligned to accomplish the mating and unmating function allowing for self-centering movement.
5. Care was taken to prevent the mating faces of the test samples from contacting each other.
6. All test samples were tested in a terminated state.
7. The test samples were tested for mating/unmating force in accordance with EIA 364, Test Procedure 13 at a 1.0 inch/minute test rate. Said measurements were measured initially, after 100, 500, 1500, 2500, 5000 and 10,000 cycles.

REQUIREMENTS: See next page.



REQUIREMENTS:

1. The mating/unmating forces shall be measured and recorded.
2. There shall be no evidence of physical damage to the test samples so tested.

RESULTS:

1. There was no evidence of physical damage to the test samples as tested.
2. The following is a summary of the data observed:

<u>No. of Cycles</u>	<u>MATING FORCE</u> <u>(Pounds)</u>		<u>UNMATING FORCE</u> <u>(Pounds)</u>	
	<u>ID# 1</u>	<u>ID# 2</u>	<u>ID# 1</u>	<u>ID# 2</u>
Initial	15.9	20.3	12.5	19.2
100	7.5	8.7	7.3	11.5
500	7.6	7.6	7.9	8.5
1500	7.6	7.3	8.0	8.7
2500	9.0	8.1	8.1	9.5
5000	7.7	7.9	8.0	9.4
10,000	8.1	8.2	9.2	9.5

