



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

CONTECH RESEARCH INC.

Attleboro, MA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005*).



Presented this 20th day of February 2008.

A handwritten signature in cursive script, appearing to read "Peter Abney".

President

For the Accreditation Council

Certificate Number 1478.01

Valid to February 28, 2010

For the tests or types of tests to which this accreditation applies,
please refer to the laboratory's Mechanical Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CONTECH RESEARCH INC.
67 Mechanic Street
Attleboro, MA 02703
Mark Gates 508 226 4800

MECHANICAL

Valid to: February 28, 2010

Certificate Number: 1478.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on aerospace, aircraft, automotive, and computer components, cable assemblies, connectors and interconnect systems; commercial and military:

<u>Test</u>	<u>Test Method(s)</u>
Force Parameters	.250 lbs to 950 lbs
Insertion Force, Withdrawal Force	EIA 364 TP 37 MIL-STD-1344 Method 2014 IEC 512 Test 13a SAE/USCAR-2
Crimp Tensile	EIA 364 TP 08 MIL-STD-1344 Method 2003 IEC 512 Test 16d SAE/USCAR-21
Mating and Unmating Force	EIA 364 TP13 MIL-STD-1344 Method 2013 IEC 512 Test 13b USB 2.0 SAE/USCAR-2 SAE/USCAR-30 IEEE 1394
Contact Strength (Bend)	EIA 364 TP 15 IEC 512 Test 16c SAE/USCAR-2
Retention	EIA 364 TP 29 MIL-STD-1344 Method 2007 IEC 512 Test 15a
Term. -Conn. Engage/Disengage	SAE/USCAR-2
Terminal Strength	EIA 364 TP 62 IEC 512 Test 16f
Actuating Mechanism	EIA 364 TP 68 IEC 512 Test 8c

Cable Pullout	EIA 364 TP 38 MIL-STD-1344 Method 2009 IEC 512 Test 17c USB 2.0 IEEE 1394
Vibration Parameters	10 Hz – 3 KHz Sine 100 G's Random 50 Grms Vibration under temp. -75 °C to 200 °C
Vibration: Sine	EIA 364 TP 28 MIL-STD-1344 Method 2005 MIL-STD-202 Method 201, 204 IEC 512 Test 6d IEEE 1394
Vibration: Random	EIA 364 TP 28 SAE/USCAR-2 MIL-STD-1344 Method 2005 MIL-STD-202 Method 214 IEC 512 Test 6d USB 2.0 SAE/USCAR-30
Mixed Mode Vibration	MIL-STD-810 Method 514
Gunfire Vibration	MIL-STD-810 Method 519
Mechanical Shock Parameters	Halfsine, Sawtooth, Trapezoid Up to 1000 Grms
Mechanical Shock	EIA 364 TP 27 MIL-STD-1344 Method 2004 MIL-STD-202 Method 213 IEC 512 Test 6c USB 2.0 SAE/USCAR-2 SAE/USCAR-30 IEEE 1394
Temp / Humidity Parameters	-70 °C to 300 °C, 20 % to 98 % RH
Thermal Shock Automatic	EIA 364 TP 32 MIL-STD-1344 Method 1003 MIL-STD-202 Method 107 IEC 512 Test 11d USB 2.0 SAE/USCAR-2 SAE/USCAR-30 IEEE 1394
Thermal Cycling	EIA 364 TP 110

Cyclic Humidity	EIA 364 TP 31 MIL-STD-1344 Method 1002 MIL-STD-202 Method 106 IEC 512 Test 11c/11m USB 2.0 SAE/USCAR-2 SAE/USCAR-30
Humidity Steady State	EIA 364 TP 31 MIL-STD-202 Method 103 IEC 512 Test 11c/11m IEEE 1394
Temperature Life	EIA 364 TP 17 MIL-STD-1344 Method 1005 MIL-STD-202 Method 108 IEC 512 Test 9b USB 2.0 SAE/USCAR-2 SAE/USCAR-30 IEEE 1394
Parameters	1 % to 5 % Salt
Salt Spray	EIA 364 TP 26 MIL-STD-1344 Method 1001 MIL-STD-202 Method 101 IEC 512 Test 11f
Parameters	.002 in – 2 inches, 2 gm – 1000 grams
Normal Force	EIA 364 TP 04
Parameters	Benign, Portland Cement, Arizona Road Dust, Talc, Silica Flour
Dust	EIA 364 TP 91
Durability	EIA 364 TP 09 MIL-STD-1344 Method 2016 IEC 512 Test 9a USB 2.0 SAE/USCAR-30 IEEE 1394
Axial Concentricity	EIA 364 TP 7 MIL-STD-1344 Method 2001 IEC 512 Test 16g

Cable Flex	EIA 364 TP 41 MIL-STD-1344 Method 2017 USB 2.0 SAE/USCAR-30 IEEE 1394
Corrosivity. Plastics	EIA 364 TP 82
Altitude Immersion	EIA 364 TP 03 SAE AS1344 (MIL-STD-1344) Method 1004 IEC 512 Test 14e
Porosity Nitric	EIA 364 TP 53, 60 MIL-STD-1344 Method 1017
Gas Tight	EIA 364 TP 36
Air Leakage	EIA 364 TP 02 MIL-STD-1344 Method 1008 IEC 512 Test 14d
Solderability.	EIA 364 TP 52 MIL-STD-202 Method 208 IEC 512 Test 12a USB 2.0 US CAR PF-1
Resistance to Solder Heat	EIA 364 TP 56 MIL-STD-202 Method 210 IEC 512 Test 12d
Resistance to Solvents	EIA 364 TP 11 MIL-STD-202 Method 215
Fluid Immersion	EIA 364 TP 10 MIL-STD-1344 Method 1016 MIL-STD-202 Method 104 IEC 512 Test 19c
Fluid Resistance	SAE/USCAR-2
Pressure/Vacuum Leak	SAE/USCAR-2
Soap Shower	IEC 529 DIN 40050

Mixed Flowing Gas	ASTM B845-97 EIA 364 TP 65 IEC 512 Test 11g IEC 68-2-60 GR-63-CORE GR-1217-CORE USB 2.0 IEEE 1394
Maintenance Aging	EIA 364 TP 24 IEC 512 Test 9d
Flammability	EIA 364 TP 104 MIL-STD-1344 Method 1012
Cross Section	EIA 364 TP 96 SAE/USCAR-21

Customer specific test methods utilizing any combination of test equipment parameters listed above.