



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CONTECH RESEARCH INC.
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MECHANICAL

Valid to: February 28, 2014

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 and consumer product safety testing:

Test	Test Method(s)
Consumer Product Safety Testing	
Code of Federal Regulations	16 C.F.R Part 1501; 16 C.F.R Part 1511; 16 C.F.R Part 1510
Force Parameters	(.250 lbs to 950) lbs
Insertion Force, Withdrawal Force	EIA 364 TP 37; MIL-STD-1344 Method 2014; IEC 512, 13-1; SAE/USCAR-2
Crimp Tensile	EIA 364 TP 08; MIL-STD-1344 Method 2003; IEC 512, 16-4; SAE/USCAR-21
Mating and Unmating Force	EIA 364 TP13; MIL-STD-1344 Method 2013; IEC 512, 13-2; USB 2.0; SAE/USCAR-2; SAE/USCAR-30; IEEE 1394
Contact Strength (Bend)	EIA 364 TP 15; IEC 512, 16-3; SAE/USCAR-2; MIL-STD-883 Method 2004.5
Retention	EIA 364 TP 29; MIL-STD-1344 Method 2007; IEC 512, 15-1

Test	Test Method(s)
Term. -Conn. Engage/Disengage	SAE/USCAR-2
Terminal Strength	EIA 364 TP 62; IEC 512, 16-6; MIL-STD-883 Method 2025.4
Actuating Mechanism	EIA 364 TP 68; IEC 512, 8-3
Cable Pullout	EIA 364 TP 38; MIL-STD-1344 Method 2009; IEC 512, 17-3; USB 2.0; IEEE 1394
Vibration Parameters	
	10 Hz to 3 KHz Sine 100 G's Random 50 Grms Vibration Under Temp. (-75 to 200) °C
Vibration: Sine	EIA 364 TP 28; MIL-STD-1344 Method 2005; MIL-STD-202 Methods 201, 204; IEC 60512, 6-3; IEEE 1394
Vibration: Random	EIA 364 TP 28; SAE/USCAR-2; MIL-STD-1344 Method 2005; MIL-STD-202 Method 214; IEC 512, 6-5; 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 500 Grms
Mechanical Shock	EIA 364 TP 27; MIL-STD-1344 Method 2004; MIL-STD-202 Method 213; IEC 60512, 6-3; USB 2.0; SAE/USCAR-2; SAE/USCAR-30; IEEE 1394

Test	Test Method(s)
Temp / Humidity Parameters	(-70 to 300) °C, (20 to 98) % RH
Thermal Shock	EIA 364 TP 32; MIL-STD-1344 Method 1003; MIL-STD-202 Method 107; IEC 512, 11-4; USB 2.0; SAE/USCAR-2; SAE/USCAR-30; IEEE 1394; MIL-STD-883 Method 1011.9
Thermal Cycling	EIA 364 TP 110
Cyclic Humidity	EIA 364 TP 31; MIL-STD-1344 Method 1002; MIL-STD-202 Method 106; IEC 512, 11-12; USB 2.0; SAE/USCAR-2; SAE/USCAR-30
Humidity Steady State	EIA 364 TP 31; MIL-STD-202 Method 103; IEC 60512, 11-3; IEEE 1394
Temperature Life	EIA 364 TP 17; MIL-STD-1344 Method 1005; MIL-STD-202 Method 108; IEC 512, 9-2; USB 2.0; SAE/USCAR-2; SAE/USCAR-30; IEEE 1394
Salt Spray <i>(1 to 5) % Salt</i>	EIA 364 TP 26; MIL-STD-1344 Method 1001; MIL-STD-202 Method 101; IEC 512, 11-6
Normal Force <i>(.002 to 2) inches, (2 to 1000) grams</i>	EIA 364 TP 04
Dust <i>Benign, Portland Cement, Arizona Road Dust, Talc, Silica Flour</i>	EIA 364 TP 91

Test	Test Method(s)
Durability <i>Benign, Portland Cement, Arizona Road Dust, Talc, Silica Flour</i>	EIA 364 TP 09; MIL-STD-1344 Method 2016; IEC 512, 9-1; USB 2.0; SAE/USCAR-30; IEEE 1394
Axial Concentricity	EIA 364 TP 7; MIL-STD-1344 Method 2001; IEC 512, 16-7
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, 14-5
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, 14-4
Solderability	EIA 364 TP 52; MIL-STD-202 Method 208; IEC 512, 12-1; USB 2.0; US CAR PF-1; MIL-STD-883 Method 2003.8
Resistance to Solder Heat	EIA 364 TP 56; MIL-STD-202 Method 210 Methods A, B; IEC 512, 12-4
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 19-3
Fluid Resistance	SAE/USCAR-2
Pressure/Vacuum Leak	SAE/USCAR-2
Soap Shower	IEC 529; DIN 40050

Test	Test Method(s)
Mixed Flowing Gas	ASTM B845-97; EIA 364 TP 65; IEC 60512, 11-7; IEC 68-2-60; GR-63-CORE; GR-1217-CORE; USB 2.0; IEEE 1394
Maintenance Aging	EIA 364 TP 24; IEC 512, 9-4
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.



The American Association for Laboratory Accreditation

World Class 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 8 January 2009*).

Presented this 6th day of April 2012.





Peter Abney

President & CEO
For the Accreditation Council
Certificate Number 1478.01
Valid to February 28, 2014

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