

Harness Manufacturer Eliminates 3rd Party Test House and Reduces Test Time by 65%

Customer
Cable / Harness Manufacturer

Application
Functional Testing

Industry
Aerospace

Product Used
Fusion Cable & Wire Analyzer

Location
CA, USA

The Challenge:

This cable manufacturer had a 1500V test requirement and owned test equipment capable of testing to just 1000V. The manufacturer sent his cable to a 3rd party testing house for additional testing using a low-end hipot tester in combination with an antiquated manual switch box.

The result – it took three process steps and procedures and a total test time of 1 hour to test each cable. With each lot sent to the testing house, ¼ of the cables failed and the only data collected was a handwritten pass/fail mark.

The Solution:

The customer chose the Fusion Cable & Wire Analyzer because it allowed him to automate the electrical testing process, test at the 1500 high voltage requirement, perform automatic switching of multiple points and eliminate the use of a 3rd party test house.

Summary & Metrics:

- Increased throughput and reduced overall cable and functional test time by 65%
- Decreased the number of test instruments from 2 semi-automatic to 1 automated
- Decreased test time from 1 hour minutes to 21 minutes per cable
- Decreased the number of test process steps from 3 to 2
- Decreased the number of test procedures from 3 to 1
- Gained Electronic Test Report Capability

Benefits:

This manufacturer realized a savings of \$3800/week in testing costs and will achieve his ROI with this test solution in approximately 6-8 weeks.