

Cable Manufacturer Achieves 300% Increase Across 4 Product Lines

Customer Cable / Harness Manufacturer	Application Hipot, IR, Continuity & Resistance Testing
Industry Automotive; Military	Product Used Horizon HV4 Wiring Analyzer
Location IN, USA	

The Challenge:

The cable manufacturer needed an instrument that could test the entire harness as well as individual points and he wanted to improve the connection to DUT and the total test time.

The connection to the DUT problem occurred in the Manufacturer having to rig banana plug jumpers on a test panel to connect them as shorts. Each cable type had a unique setup and had to be taken down to test a new part number. The test time issue coincided with the connection of the 25-pin cable harness. A 1-minute dwell time was required for each wire of the harness. The operator was responsible for manually flipping each pin switch and watching the clock for 1 minute to then flip the next switch. The total test time was 27 minutes.

The Solution:

The cable manufacturer chose a Horizon HV4 Wiring Analyzer that provided him with 128 points to test a full harness and less than 1 second test time for a 500 point net. The manufacturer decreased his test time for the 25-pin harness by 26% and eliminated the banana plug jumpers. He can program the HV4 to check for shorts, opens and miswires.

Summary & Metrics:

- Increased throughput 300% across 4 Product Lines
- Increased Capability to test a full harness and multiple harnesses
- Decreased Test Time from 27 minutes to 7 minutes
- Eliminated Operator Manually Flipping Switches & Watching Clock
- Gained Capability to Pre-Program each Cable Type with Unique Setup
- Gained Hipot, IR, Continuity & Resistance Testing Capability in 1 instrument

Benefits:

This cable manufacturer will achieve his ROI in 5 months. He experienced a 300% increase across 4 product lines and anticipates a 70% increase in sales this fiscal year. This manufacturer purchased another Horizon Wire & Cable Analyzer with an expansion box in May 2005.