



SmartWire

An intelligent, safe, & reliable wiring system

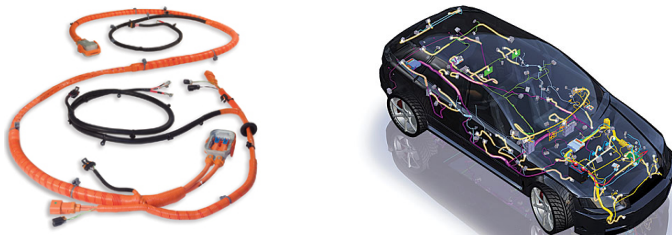


Characteristics / Description

- Predictive wire damage detection system that autonomously re-routes power before the core conductor of the wire is damaged
- Monitors electrical faults in online or offline operation
- Capable of detecting intermittent faults
- Prevents catastrophic failure
- Efficiently and autonomously transfers power and data connectivity from damage / defective wire to alternate path
- Monitors up to 64 individual wires simultaneously
- Built in memory device stores all relevant fault data

Potential Applications

- **DoD Equipment** - Vehicles, Aircraft, Missiles, Ships, UAS
 - Wiring Harness; M1A2 FCS & CITV
- **Automobiles** - Hybrid, Electric, Diesel, & Gas
 - Wiring Harness
- **Aerospace** - Aircraft, Helicopters, Rockets
 - Wiring Harness
- **Smart Grid Wiring** - Cities of the future, Communications



Benefits / Capability

- **Intelligent** - Autonomously identify fault type and location and re-routes power without operator intervention
- **Nonintrusive** - Faults are monitored in the background using very low power signals that do not disrupt normal circuit operation
- **Improved Reliability** - Autonomous rerouting capability in wire harness increases reliability and helps prevent shorts which can lead to fires and catastrophic failures
- **Cost Savings** - Out of operation time, maintenance downtime are reduced, which results in reduced cost
- **Disruptive Technology** - Current technology detects electrical faults, but is not able to autonomously reroute power
- **Proven Technology** - NASA has used this technology to monitor its rocket launches

Supplier

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