



# Automotive Overview



Vehicle electronics and controls are ever increasing in complexity. Combined with tight space, vibration, extreme temperature variation, hostile fluids and emerging data transmission requirements, there are a great deal of wire and cable performance concerns in today's vehicles.

EXRAD® products are used on cutting edge technology applications including EV systems, Hybrids, Fuel Cells, Transmissions, ICE Engines, Ethernet / Infotainment Systems, and many other vehicle platform applications.

Champlain Cable provides solutions to challenging cable design problems with a proven track record of engineering expertise and 1:1 communication when working with end users on developing solutions. Here is a short list of actual problems Champlain Cable's Automotive products have solved.

- Thinner walls allow for more room in tight spaces
- Flexible insulations can bend to meet the most difficult routing situation and reduce installer fatigue
- Flexible insulations allow for alternative routings, using less wire, allowing for weight and cost savings
- Longer flex life avoiding wire breakage
- Controlled bond strength allowing increased speed of cut and strip equipment
- Consistent impedance and tightly controlled electricals for reliable high data rates for the life of the vehicle.
- Higher ampacity allows for cable size reduction, along with cost and weight savings

Champlain Cable is a world leader of irradiation cross-link technology in the wire and cable industry. Our research team has created many unique irradiated cross-linked compounds to support numerous challenging applications for our customers. These custom compounds are designed to provide cost effective solutions.

**Applications Include:**

Battery Cables	Powertrain	Sensors	Doors & Hatches
Video	Cameras	High Voltage Cables	Wheel Speed
Transmissions	Engines	Automotive Ethernet	