The good news: Technology is making vehicles smarter, safer, more convenient and more luxurious. The bad news: It also makes their electrical and electronics subsystems more complex to engineer and install. Delphi can help. As the global leader in automotive electrical/electronic distribution systems (E/EDS), we know components and how to integrate them into one optimized system. The more complex the vehicle, the simpler it is to choose Delphi.
We not only understand automotive electrical systems. We invented them.

From basic components to complex systems for the entire vehicle, we have the vision and the products to supply exactly what our customers need. And that should come as no surprise. Delphi has been on the leading edge of automotive electrical systems for over a century:

1901 — First U.S. producer of ignition cable
1963 — First to use flexible printed circuits in instrument panels
1976 — Developed automotive fuse block design to replace tubular fuse
1979 — Patented an environmentally sealed connection system
1993 — Developed non-lead PVC cable
1995 — Introduced Electrical Center
2002 — Pioneered Zero Resistance Technology automated assembly process

But this isn’t just where we’ve been; it’s where we’re going. Today, we’re totally redefining electrical architecture — simplifying entire systems — while cost effectively delivering the highest levels of performance and reliability. We understand the role of a systems integrator and can provide the best options for every customer.

We can help customers comply with standards and certifications in every region in which we do business (which is basically all of them).

In short, our culture demands excellence and our customers deserve it.
At Delphi, we take an entire systems approach. First we analyze all functional and physical requirements of an electrical/electronic system, then optimize what’s best for the vehicle. This approach covers virtually all aspects of E/EDS:

- Power distribution
- Circuit protection
- Electrical/electronic functions
- Signal processing
- Sensing-switching
- Physical layout/packaging

Electrical/electronic architecture and components include:

- Wiring — round and flat
- Electrical centers
- Connection systems
- Mechatronic systems
- Electronic modules
- Optical illuminated products

This integrated systems approach delivers real value. It helps reduce vehicle complexity, enhances design and engineering flexibility, helps increase reliability, improves cost efficiencies and helps reduce mass and package size.

Choose from a wide range of architecture analysis competencies, including:

- Wire assembly partitioning
- Power distribution
- Circuit protection
- Voltage drop
- Subsystem mechanization
- EMC testing — component and systems level
- Arc detection for 42-volt and higher architecture
- Cable, crimp, SABER and reliability modeling
- Competitive assessment

First we analyze, then we optimize.
Innovative electronics are the future of automotive technology. They’ll soon comprise more than 50% of a vehicle's content. Delphi can help make sure you’re 100% ready.
Portfolio of our leading Electrical/Electronic Distribution Systems

Wiring assemblies — complex and small gauge

Flexible printed circuits with integrated electronics

Solid state and electrical integration hybrid modules allow for quicker reaction to circuit changes

Battery Disconnect Device — helps protect and provides disconnection for both 14- and 42-volt systems

Zero Resistance Technology— automated harness assembly using ultrasonic welding
Our components are leading-edge. Our in-house systems integration expertise is unrivaled, as are our global capabilities. We have well over 100 years of experience in the U.S. and Europe and several decades in the newer Asia Pacific and South American markets. All over the world, we’re putting innovative electrical systems on the road. Today.
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