

# Power Over Fiber



## EMI Immunity and Shielding

In environments where electromagnetic interference (EMI) can disrupt performance, power-over-fiber (POF) delivers a game-changing solution. By transmitting power and data over optical fiber, PoF eliminates electrical noise and ground loops, ensuring clean, reliable operation for sensitive systems.

Ideal for high-voltage environments, medical imaging suites, or any location where combustible gases may be present.

## Electrical Isolation

Consider Power Over Fiber for:

### Medical Devices

Safe power for MRI machines, surgical environments, and diagnostic tools where EMI must be minimized.

### Industrial Automation

In robotics, factory automation, or high-voltage environments, PoF can power remote actuators, cameras, or controllers without introducing electrical noise.

### Aerospace and Defense

In satellites, aircraft, or military systems, fiber can deliver power to isolated or shielded components where EMI (electromagnetic interference) is a concern.

### Underwater and Subsea Systems

Delivers power to underwater sensors, ROVs, and seafloor stations where copper is too bulky or prone to corrosion.

## Lighter, More Sustainable than Copper

Power-over-Fiber (PoF) offers a lightweight, space-saving alternative to copper for long-distance power delivery. It eliminates IR voltage drop and EMI issues by transmitting power and data through optical fibers, ensuring electrical isolation and reliability in harsh environments. Ideal for embedded systems, low-power computing, LED lighting, and motor control, PoF simplifies design when copper isn't practical.

Power Transmission via Optical Fiber Eliminates Electrical Wires, EMI, and Parasitic Capacitance

