

HIGH-PERFORMANCE, WEIGHT SAVING SOLUTIONS IN CHALLENGING ENVIRONMENTS

Gore's advanced cables and wires technology delivers reliable, efficient, and safe performance in demanding environments, ensuring uninterrupted data and power transmission—even under extreme conditions. Make Gore your trusted partner in setting new standards for durability and functionality in today's most advanced Automotive systems.

GORE® Magnet Wires

Superior Motor Performance and Extreme Durability

GORE Magnet Wires are engineered to deliver unmatched reliability and durability for electric motors operating in the most challenging environments. Designed to withstand water and oil infiltration, these wires ensure long-lasting motor functionality and prevent costly breakdowns caused by insulation degradation, short circuits, and corrosion

Key Features & Benefits:

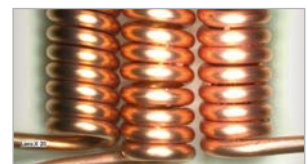
- **Superior Water and Oil Resistance:**
Protect motor windings from moisture and lubricants, ensuring continued efficiency in marine, wastewater, outdoor, and industrial installations.
- **Exceptional Durability Under High-Pressure High-Temperature (HPHT) Conditions:**
Performance proven to remain functional after 48 days of exposure, greatly outlasting traditional enameled wires that fail in just 90 hours
- **Continuous Voltage Endurance:**
Designed for high-performance applications with reliable voltage capabilities and extreme temperature resistance up to 260 °C.
- **Hydrolysis and Coolant Resistance:**
Maintain integrity in moisture-intensive environments
- **High Breakdown Voltage:**
Prevent electrical failures and extend motor lifespan.

GORE Magnet Wires outperform PI enameled wires.

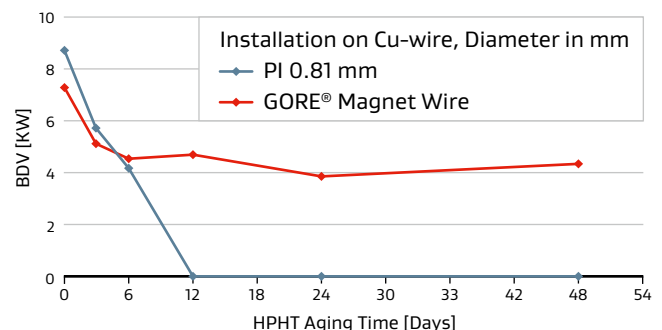
Test results after high pressure high temperature testing (280 °C with H₂O in synthetic oil).



Polyamide enameled wires become brittle and crack.



GORE Magnet Wires remain intact.



After 90 hours, PI enameled wires experience significant insulation resistance loss and voltage breakdown performance degradation. GORE Magnet Wires continue to perform reliably over 48+ days.

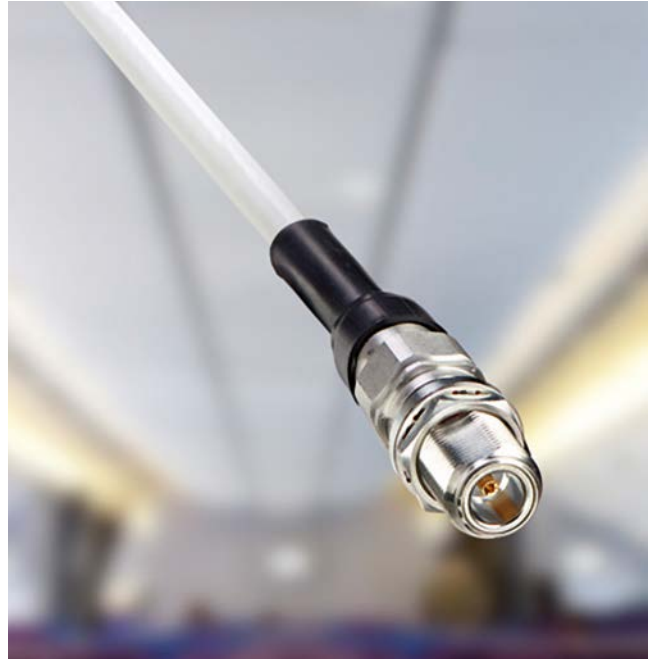
GORE® Leaky Feeder Antennas

Reliable RF Coverage for Challenging Environments

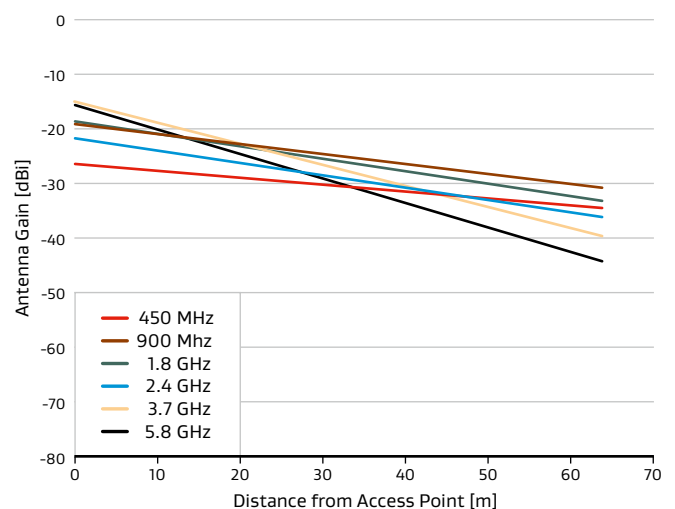
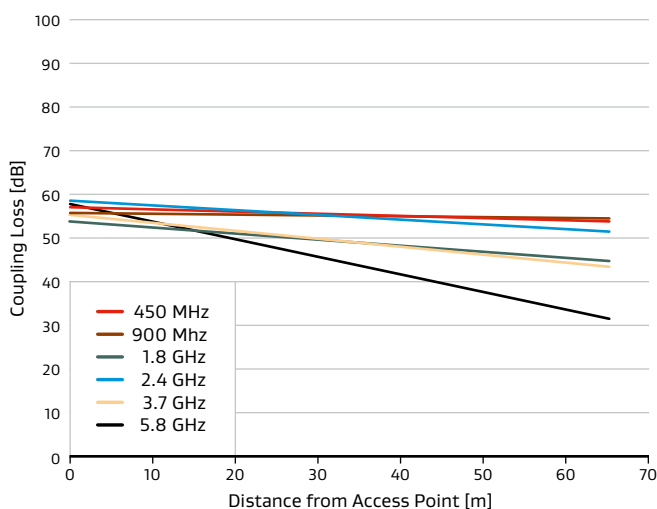
GORE Leaky Feeders are advanced coaxial cables specifically designed to radiate radio frequency (RF) signals through engineered slots or discontinuities in their outer conductor. Acting as both transmission lines and antennas, these hybrid cables deliver consistent RF coverage in confined, complex environments.

Key Features & Benefits:

- **Wide Frequency Range & Compatibility:**
Reducing hardware requirements and installation complexity. Operate across 400 MHz to 6 GHz, supporting multiple broadband protocols such as cellular and Wi-Fi
- **Uniform Signal Coverage:**
Ensure consistent RF propagation, eliminating connectivity dead spots in wireless networks.
- **High-Voltage Durability and EMI Shielding:**
Robust EMI shielding to suppress electromagnetic interference affecting sensitive electronics
- **Cost & Hardware Reduction:**
Integrate multiple protocols into a single solution, minimizing equipment needs, weight, and installation costs.
- **Adaptability & Customization:**
Available in various diameters (6.5–11.7 mm) and constructions to accommodate specific design needs.



GORE Leaky Feeders demonstrate minimal coupling loss and excellent antenna gain



GORE® Power Cables

High-Performance, weight saving solutions for Electric Vehicles

GORE Power Cables combine reliability, efficiency, and weight savings—perfect for demanding environments such as EV battery packs. With advanced materials and designs, these cables optimize energy transfer, endure extreme conditions, and support compact, high-power architectures—making them the ideal choice for efficient, safe, and high-performance EV designs.

Key Features & Benefits:

- **Lightweight Design:**
Significantly reduces vehicle weight, improving efficiency, range, acceleration, and handling.
- **Compact Size:**
Slim diameter enables easy routing in tight EV battery compartments.
- **High Voltage and Temperature Resistance:**
Withstands up to 1,000 Vrms and operates in extreme temperatures (-65 °C to +260 °C).
- **Low Conductor Resistance:**
Nickel-plated copper strands minimize DC resistance (0.292 Ω/km), ensuring efficient energy transfer with minimal power loss.
- **Tight Bend Radius:**
Flexible design enables routing with a minimum bend radius of 3x the outer diameter, preventing damage in high-density configurations.

Design of GORE® Power Feeder Cables



	GORE® High Performance Cables		GORE® Power Feeder Cables	
	AWG28	AWG10	AWG12	AWG00
Lightweight Design	3 g/m	49 g/m	80 g/m	670 g/m
Compact Size	0.81 mm	3.35 mm	3.88 mm	14.2 mm
Operating Voltage	600 V rms	600 V rms	1000 V rms	1000 V rms
Breakdown Voltage	12 kV AC	15 kV AC	15 kV AC	15 kV AC

GORE® Data Cables

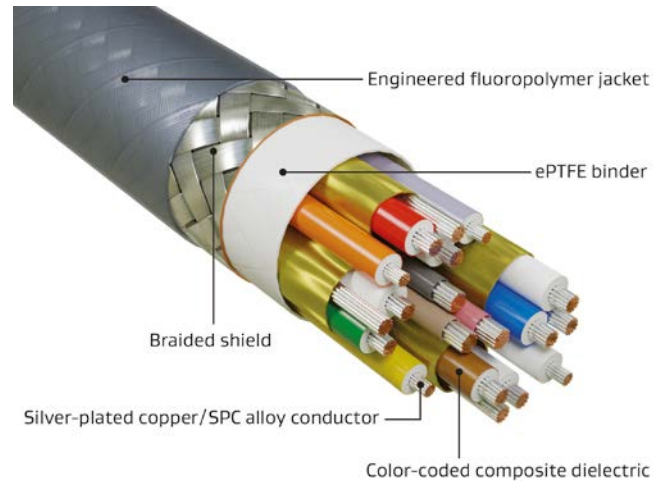
Precision, Performance, and Durability for EV Battery Designs

GORE® Data Cables are engineered to deliver superior electrical performance, ensuring seamless data transmission in electric vehicle (EV) battery packs. With advanced materials and designs, these cables provide exceptional durability in compact, vibration-prone, and high-temperature environments, making them ideal for efficient and safe battery configurations.

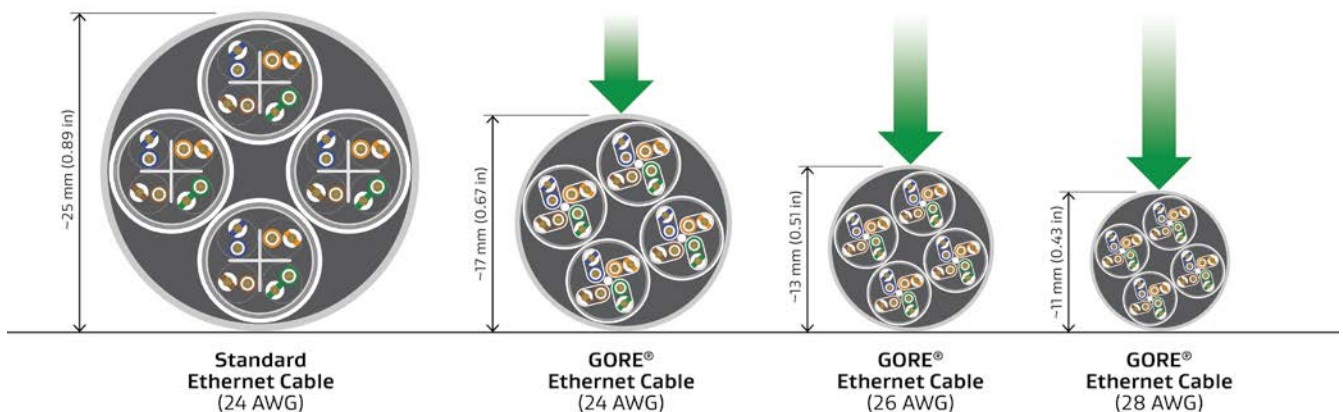
Features & Benefits:

- **Electromagnetic Interference (EMI) Mitigation:**
Improved signal integrity while reducing noise.
- **Robust Insulation:**
With high-dielectric strength and flame-retardant materials, these cables withstand voltage spikes and temperature extremes.
- **Compact, Lightweight Design:**
Reduced overall diameter, flexible stranded conductors, and durable outer layers optimize space and routing.
- **Protocol Compatibility:**
Supporting high-speed communication protocols.
- **Durable Outer Jackets:**
Chemical- and moisture-resistant under extreme EV battery conditions.

Low-Weight Cable Bundle



GORE Cables are 24% smaller and 25% lighter compared to standard cables. They take up less space and allow for easier and faster routing in complex configurations.



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