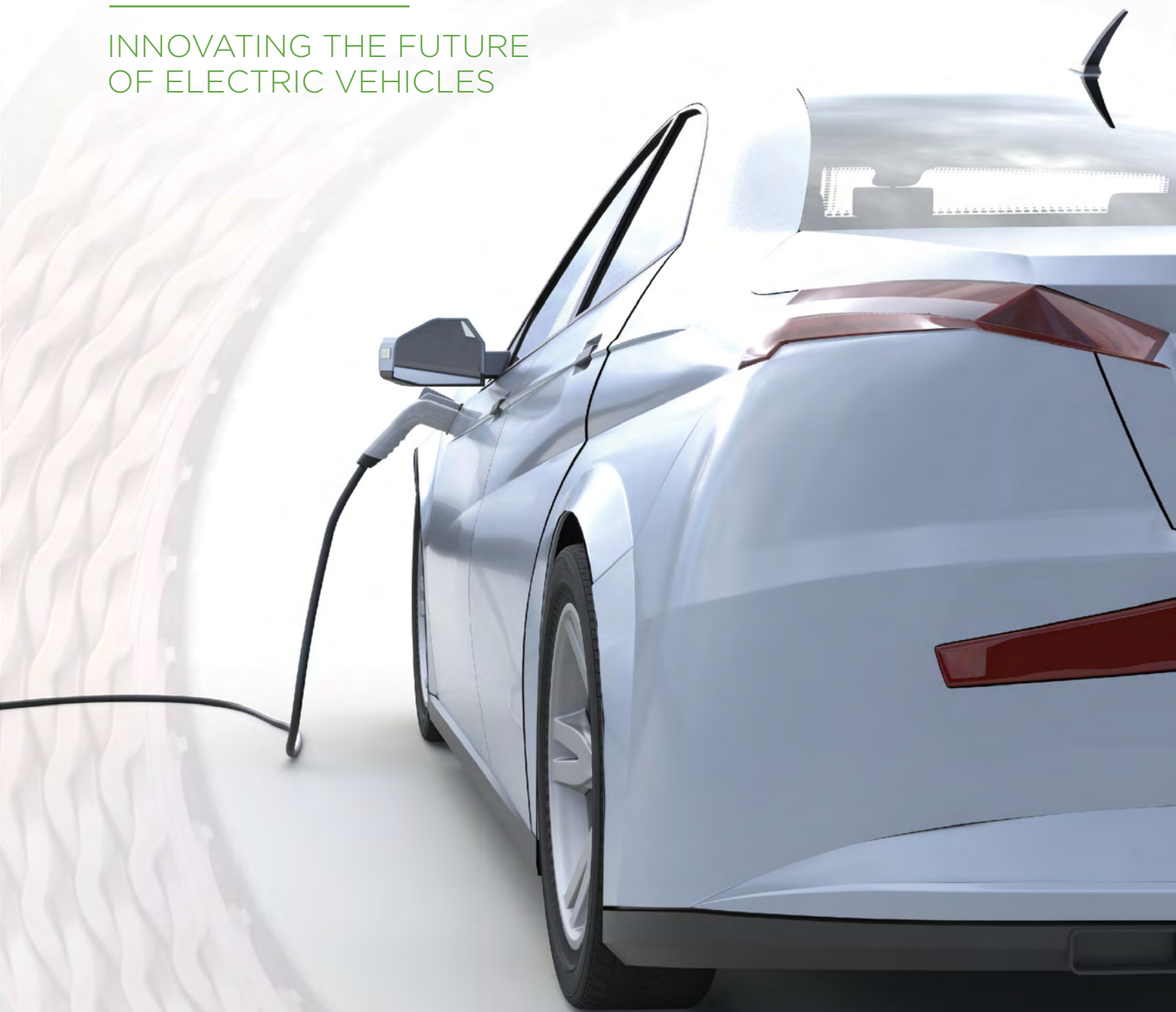


# High Voltage Winding Wire (HVWW<sup>®</sup>)

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INNOVATING THE FUTURE  
OF ELECTRIC VEHICLES



# The Power of Two Pioneering Industry Leaders

Essex Furukawa Magnet Wire was established in 2017 as a joint venture between Essex in Germany and Furukawa Electric, providing High Voltage Winding Wire (HVWW®) to the European market, for the automotive industry in Europe. Due to the success of this partnership, Essex Furukawa has now expanded to the global market.

Essex Furukawa is built upon the presence of Essex leadership in the European automotive market, global supply chain, and European sales force. The local manufacturing capability combined with Furukawa's technical expertise of magnet wire and high voltage winding wire, including extruded winding wire.



## Innovation

Driving the automotive industry through ongoing R&D



## Quality

Excellent heat and chemical resistance



## Collaboration

We partner to innovate and improve existing technology



## Global Reach

The combined resources of two industry leaders

# Exceeding Expectations

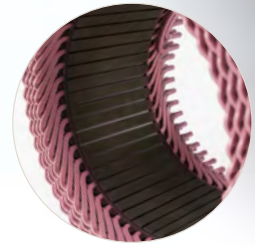
Essex Furukawa offers a HVWW® product designed for use in the automotive industry. Our technology benefits customers demanding lighter weights to achieve smaller and more efficient traction motors.

High voltage creates high heat. In the electric vehicle industry, heat resistance, flexibility and repeated stress are ongoing obstacles to magnet wire performance. Our engineers accepted the challenge to perfect every design element for an exceptional product.



## Highly Customizable

Designed to meet specific customer requirements. Varieties of thickness in height and width allow for implementation within new and existing motor technology.



## Highly Flexible

A highly flexible design improves the installation process. This also enables new design innovation otherwise not possible with more rigid materials. The malleable rectangular shape fills any gaps, leading to higher power and torque.



## High Temperature

The extruded outer layer provides excellent heat resistance and reliability. The unique design can run at a constant temperature of 240°C without any reduced performance.



### High Performance

Unique in the European automotive market, paving the way for further electric vehicle innovation



### High Quality

Meets tight market tolerances with no room for imperfections



### Outstanding Electrical Performance

Allows for high voltages of over 1000V and partial discharge free wire (PDIV)



### Efficient Design

HVWW® is coated with extruded engineering plastic for the improved performance of EV and other products



# Leading Innovation

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Our HVVW® technology enables more durable, efficient and downsized large electric traction motors running at higher voltages and currents and speed the time-to-market of major advances in automotive engineering.



## Speak With An Expert

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