

Solution

High Voltage Wire Harness

Our Magnetic Pulse Crimping technology (MPC) has become the gold standard to connect terminals to high voltage cables used in the E-Mobility sector.

Our proprietary field shapers crimp the terminal to the high voltage cable in under 100 microseconds. Thanks to the high deformation speed, MPC results in little to no residual forces that would lead to a relaxation of the crimp over time due to repeated thermal cycling. This is vital to high voltage wire harnesses. MPC delivers the most robust connection over lifetime testing, as the integrity of the crimp remains consistent from initial production to the end of the vehicle life, unlike a mechanical crimp.

Our one-stop shops in both the US and France are equipped to provide: rapid prototyping, high volume production, testing and extremely fast delivery times, for a wide range of wire sizes (up to 300mm²).

R&D
Service

Rapid Prototyping
Testing

High Volume Production
Spare Parts

Systems Production
Global Foot Print

Manufactured Products



E-Mobility



Aerospace



Renewable Energy



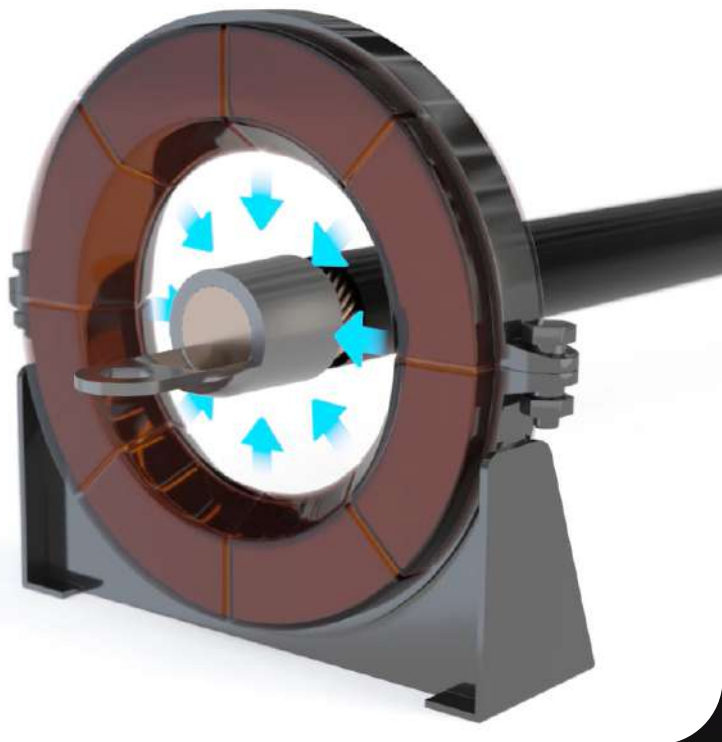
Parts Production

Our United States & France workshops are equipped to produce your high voltage wire harnesses parts to industrial serial production.

Our technology is able to push design possibilities and produce parts at a lower cost and a shortened lead time.

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Magnetic Pulse Crimping



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High voltage cable connectors

The process of choice for high-voltage wire harnesses for heavy-duty EV trucks



Technology Benefits



GREEN PROCESS



LOWER COSTS

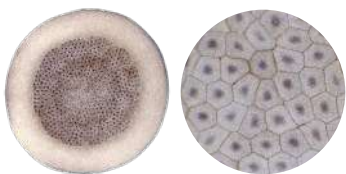


GREATER DURABILITY

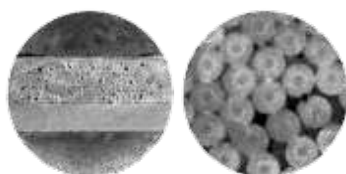


LOWER CRIMP RESISTIVITY

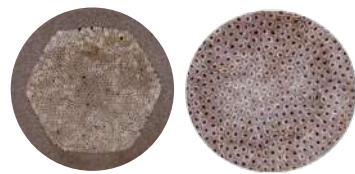
MPC Crimp Compaction: superior to traditional process



MPC

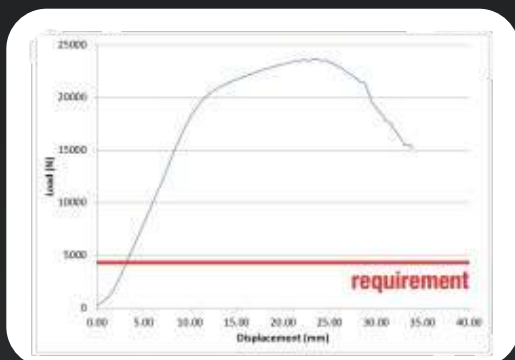


Ultrasonic Welding



Mechanical Crimping

In Testing: The wire fails while the crimp remains intact.



TENSILE TEST
120mm² cable at 23 kN

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