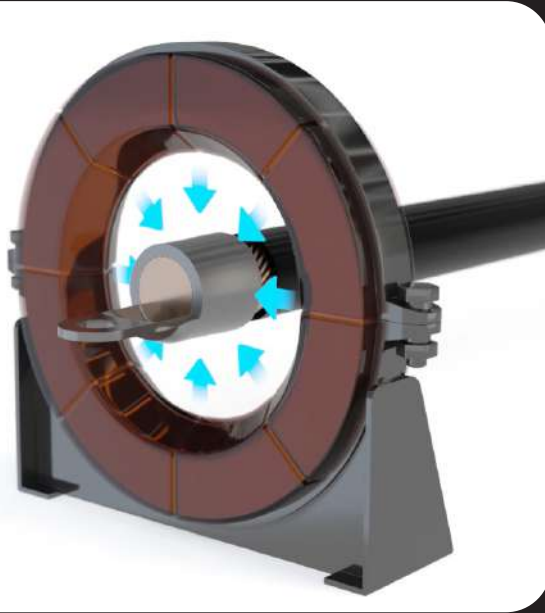


# Magnetic Pulse Crimping

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

## High-voltage cable connectors

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



## Technology Benefits

MPC is a non-contact crimping method generated by magnetic fields, creating a superior connection.



GREEN PROCESS



LOWER COSTS

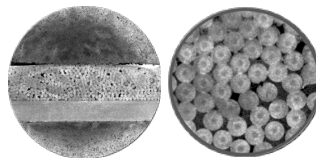
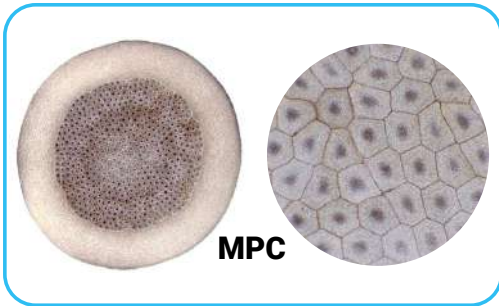


GREATER DURABILITY

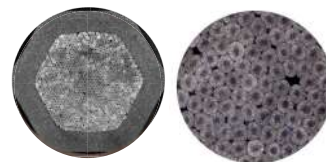


LOWER CRIMP RESISTANCE

## MPC Crimp Compaction: superior to traditional processes

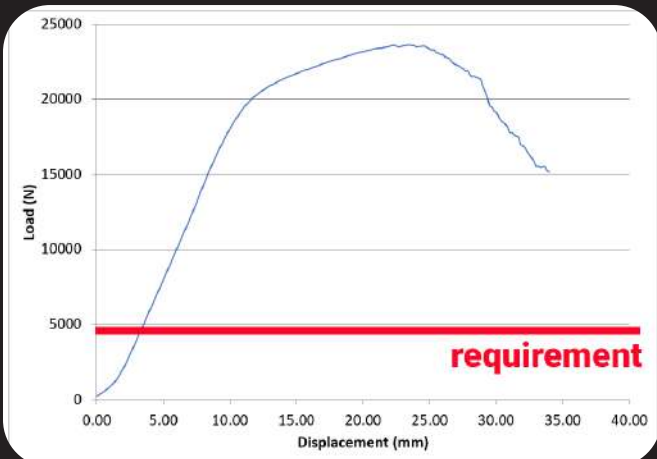


Ultrasonic Welding



Mechanical Crimping

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



TENSILE TEST  
120mm<sup>2</sup> cable @ 23kN

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Bmax is part of  
**PULSE**  
HighPowerSystems

# Solution

# High-Voltage Wire Harnesses



- Bmax's 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 300mm<sup>2</sup>).

R&D

RAPID PROTOTYPING

HIGH VOLUME PRODUCTION

SYSTEMS PRODUCTION

SERVICE

TESTING

SPARE PARTS

GLOBAL FOOTPRINT

## 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 shorter lead time.

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