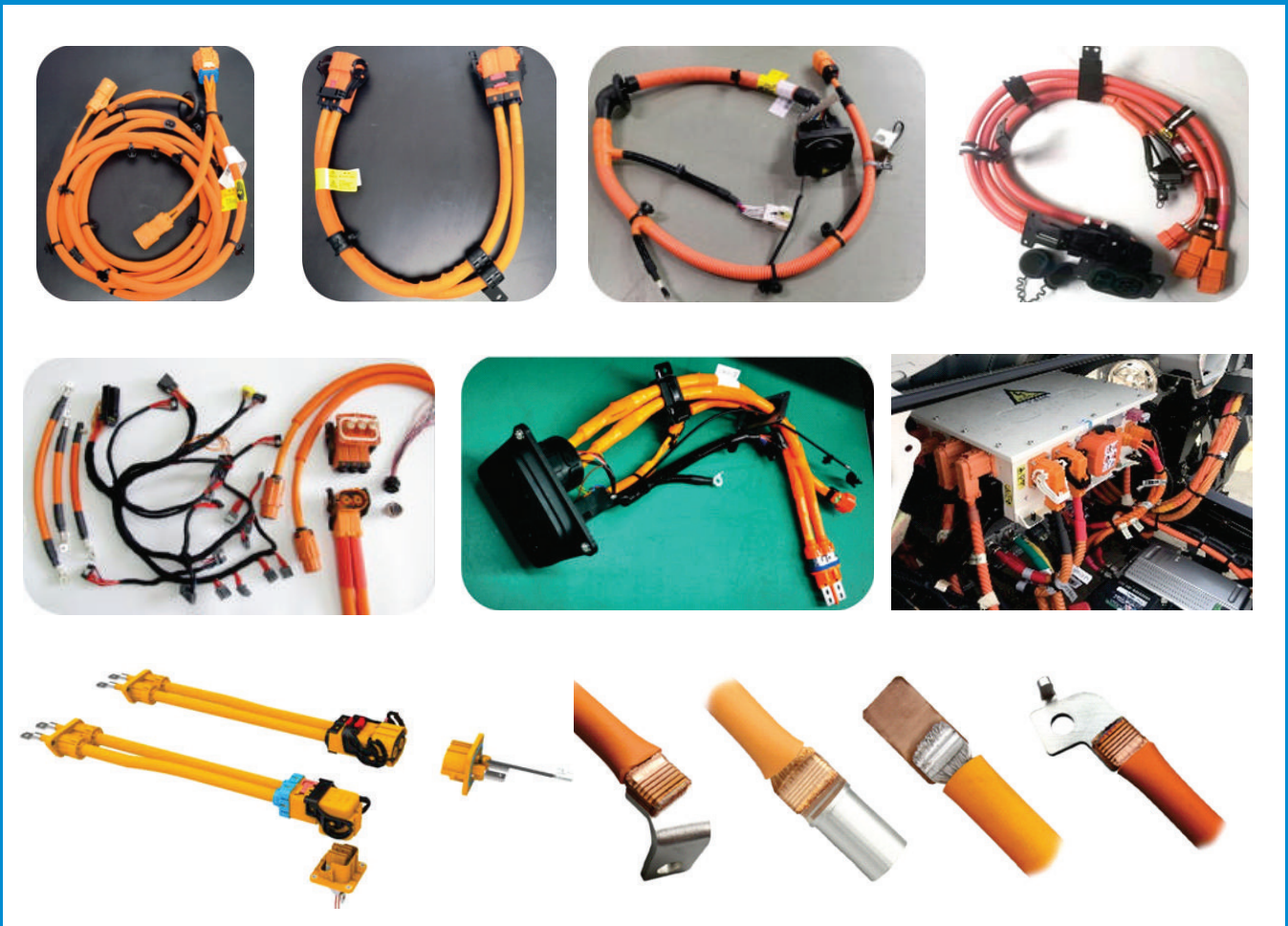


High voltage wiring harness solutions for Electric Vehicles & Energy Storage Systems



High voltage wiring harness also known as high voltage wiring harness assembly or high voltage wiring harness assembly, It is composed of high voltage connectors, high voltage cables, cable protection slots, clasps, external protection materials, safety signs, etc., and is arranged in the vehicle engine room and chassis. It is one of the key components related to the performance and safety of electric vehicle. Is a combination of one or more high-voltage cables used to conduct a class B voltage circuit, Used to provide power transmission between PDUs, battery packs, MCUS, motors, chargers, air conditioning compressors, DCCS and charging sockets, etc.

characteristic

- Cables are generally required to withstand temperatures of 125 ° C or higher;
- The voltage is generally required to be 500V and above;
- General requirements with shielding;
- The protection level shall be above Ip67;

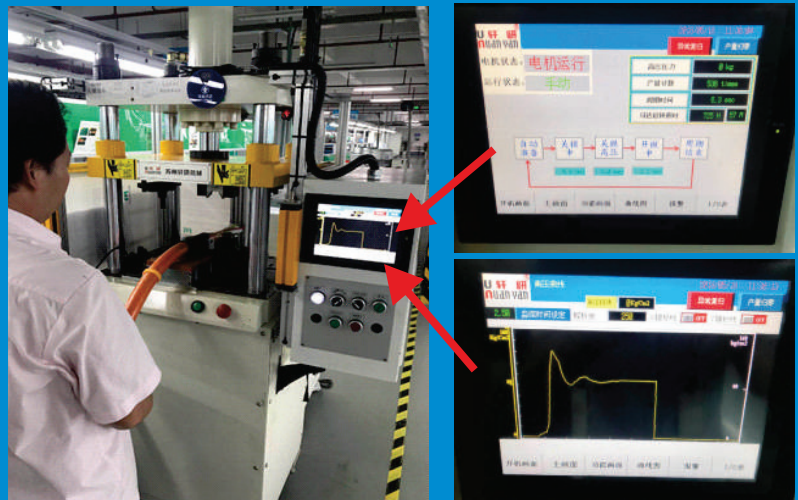
Recodeal advantage

- Self-Manufactured high voltage cable & connector, better cost, better quality, faster delivery;
- Batch support of aluminum wire/copper wire ultrasonic welding capability;
- Reliable and stable mass application cases of multiple customers;
- More than 30 integrated MES high-voltage wiring harness assembly lines;
- Automated/semi-automated production line support;
- Key assembly positions such as crimping, ultrasonic welding, air tightness/conduction testing can be monitored;
- Automation or semi-automation of complex processes;
- Key test positions such as air tightness, insulation and pressure resistance can be monitored;
- Small batch multi-variety support ability;

Production control:

High voltage wiring harness intelligent crimping system;

- 10T-20T intelligent crimping equipment;
- Grating security protection;
- Pressure curve image online real-time monitoring, abnormal situation alarm;
- Independently design high voltage cable braided layer processing system;



Intelligent high voltage detection platform:

- Fully independently developed intelligent testing platform (more than 10 sets have been run);
- The platform can meet the requirement to test all high and low voltage wiring harnesses and all charging outlet wiring harnesses;
- Electrical performance, air tightness test machine;
- To realize the simultaneous tests of conduction, insulation, pressure resistance, air tightness;
- Grating security protection;
- MES system connection/code scanning automatic test;
- The first company in China can simulate the new national standard charging mode test to realize the synchronous intelligent test of overload, overcurrent/duty ratio and other parameters;

Production intelligence (MES system) :

- In January 2018, Manufacturing Execution System (MES) was officially used in production. Recodeal is the first domestic company with MES in this industry;
- There is code scanning operation in each process;
- There are automatic identification and fool-proofing;
- Test data storage/recording/reading;
- Real-time monitoring and feedback of production quality condition;
- Qr code traceability system;

