

BATTERY PROTECTION MANAGEMENT

TOMORROW'S BATTERY PROTECTION
SOLUTIONS TODAY



Challenges

- Thermal Runaway
- Extreme temperatures
- Flame endurance
- Dielectric insulation
- Thermal management
- Rapidly evolving design needs

Applications

- HV cables & busbars
- Cooling tubes & connectors
- Battery cases
- Battery packs & modules
- Neighboring systems inside and outside the battery

Experience

- Technical leadership
- Quick iterative design creation
- Customized testing
- Global manufacturing

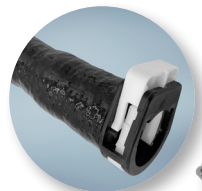


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to learn more about
our products

Systems Protection (SP) is the world's foremost supplier of protective sleeving and shielding solutions for wires, hoses, and mechanical assemblies. SP is also leading the way in protecting busbars, battery cases, modules, and more in the emerging electric vehicle (EV) market space.



Systems Protection provides a full protection portfolio focused on thermal runaway protection and other extreme environments found within EV battery pack. Our experience and customer-focused approach enable us to solve EV battery challenges, including, but not limited to the following:



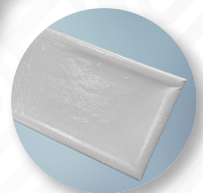
**Coolant
Systems**



**Busbar & High
Voltage Cable**



**Case, Module
Component Level**



**Cell Level
Protection**

Global Presence



Americas

GLOBAL INNOVATION CENTER:

United States Exton, PA

ENGINEERING AND TECHNICAL SERVICES:

United States Exton, PA

SALES OFFICES:

United States

Auto (1) 734 468 3201 Detroit, MI • El Paso, TX

EIT* (1) 800 926 2472 Exton, PA

Mexico (52) 442 101 8100 Queretaro

MANUFACTURING LOCATIONS:

United States El Paso, TX • Exton, PA

Mexico Queretaro

Europe, Middle East, Africa (EMEA)

ENGINEERING AND TECHNICAL SERVICES:

France Crépy-en-Valois

SALES OFFICES:

France (33) 3 44 39 06 06 Crépy-en-Valois • Toulouse

Italy Chivasso

Spain Barcelona

Germany Burscheid • Wiesbaden • Stuttgart

MANUFACTURING LOCATIONS:

France Crépy-en-Valois

Hungary Kimle

Morocco Tangier

* EIT markets include Aerospace, Railway, Industrial, Off-Road and other Electronics markets

Asia

ENGINEERING AND TECHNICAL SERVICES:

Japan Shonan

China Shanghai

SALES OFFICES:

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Guangzhou • Beijing

Thailand (66) 35 276 400 Ayutthaya

Korea (82) 44 861 6368 Sejong

India (91) 124 4784565 Gurgaon, NCR Delhi
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