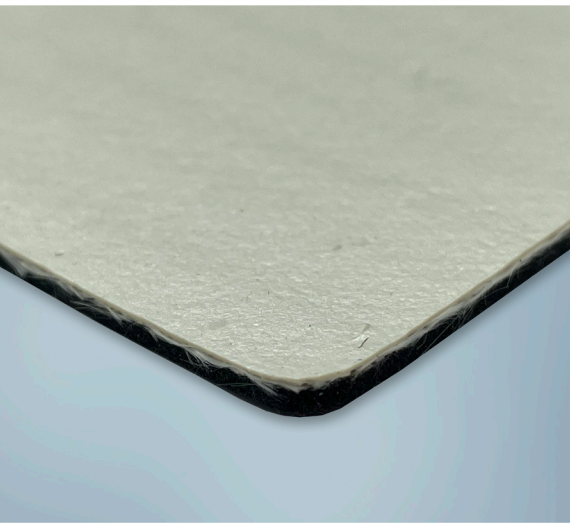
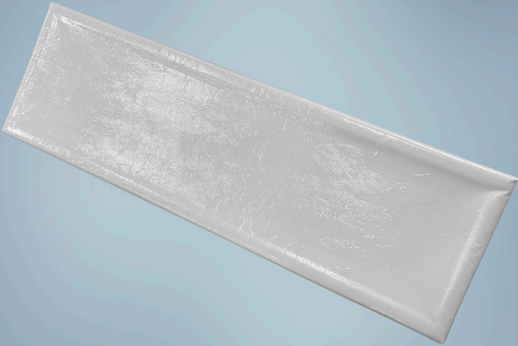




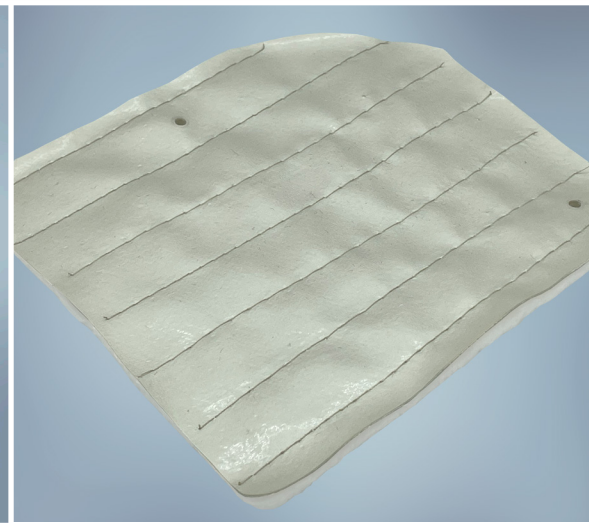
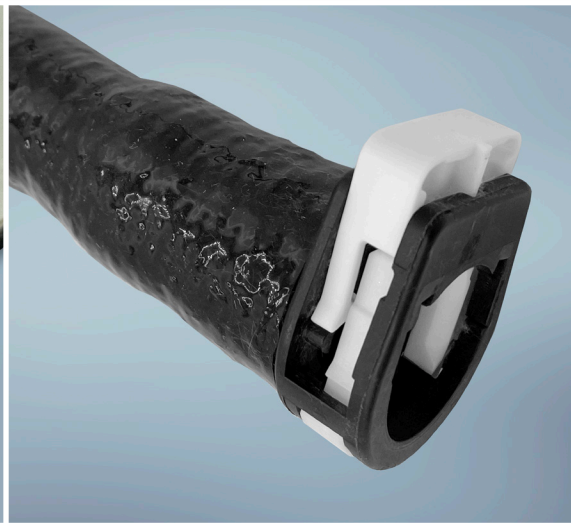
**SYSTEMS™**  
PROTECTION

# Battery Protection Management

*Protection Products*



*Leading the Future Through  
Innovative Technologies*



# About Systems Protection

**Systems Protection (SP)** is the world's foremost supplier of protective sleeving and shielding solutions for wires, hoses and mechanical assemblies focused on serving automotive, aerospace, rail and other transportation-based industries.

With a dynamic team of around 2000 dedicated professionals, we're more than just a company - we're a family. Each member brings their unique talents and expertise to the table, driving our success and fueling our growth.

But our impact doesn't stop there. Spanning across 13 countries, our reach extends far and wide, connecting with diverse communities and cultures around the globe.

Systems Protection leads the industry with innovative products and is recognized by our customers as the first to identify the problem and more importantly the solution. Systems Protection maintains a strong patent portfolio an important part of the history and future of the business.



## Functional Solutions that Extend Component Life

With dedicated product lines focused on reducing the effects of mechanical wear, impact damage, and thermal degradation, SP can help to extend component life and reduce service cost. Additionally, complementary product families target thermal insulation, reduction of electromagnetic interference, and noise attenuation, as well as bundling and routing control, to ensure that systems operate at optimum levels and deliver the ideal user experience.



ABRASION



IMPACT



THERMAL



HEAT



EMI



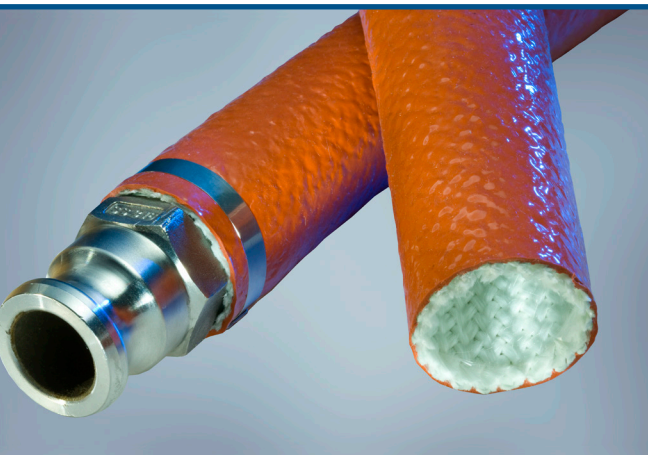
ACOUSTIC



ELECTRICAL



BUNDLING



## Our Mission

**As the market leader, our mission is to serve our customers and deliver value through continual improvement in our products and processes by focusing on:**

- Innovative Product Solutions
- Superior Engineering and Technical Support
- Outstanding Customer Service
- Manufacturing Excellence
- Global Presence

# Focus on Battery Protection Management

Systems Protection is leading the way in protecting busbars, battery cases, modules, and more in the emerging electric vehicle (EV) market space. As the proud designer and manufacturer of Bentley-Harris products, we develop expertise and drive market innovation through collaborative customer relationships and application-based problem-solving, delivering high-performing solutions that are durable in extreme environments and easy to install. Our expertise, experience and customer-focused approach enable us to solve EV battery protection challenges, including, but not limited to, thermal runaway protection.



Visit our website to learn more.

A battery is a device that converts chemical energy into electric energy. Systems Protection's EV battery products are designed to extend battery life, promote better charging, and provide enhanced safety with improved energy density. As an industry leader in the automotive protective sleeving and cabling market, we can provide a broad array of complementary products to support your EV manufacturing needs.

## Challenges

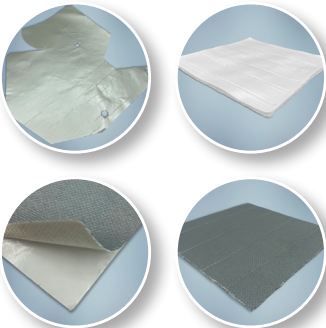
- Thermal Runaway
- Extreme Temperatures
- Flame Endurance
- Dielectric Insulation
- Thermal Management
- Rapidly Evolving Design Needs

## Applications

- HV Cables & Busbars
- Cooling Tubes & Connectors
- Battery Cases
- Battery Packs & Modules
- Neighboring Systems Inside and Outside the Battery Capabilities

## Battery Protection Management for Thermal Runaway

### Case Module Component Level



Protexx-Shield®

### Busbar and High Voltage Cable



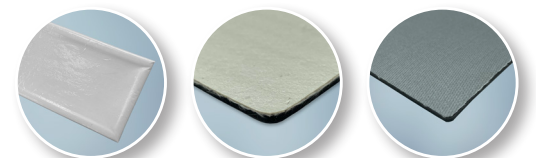
FyreJacket® 1650

### Coolant Systems

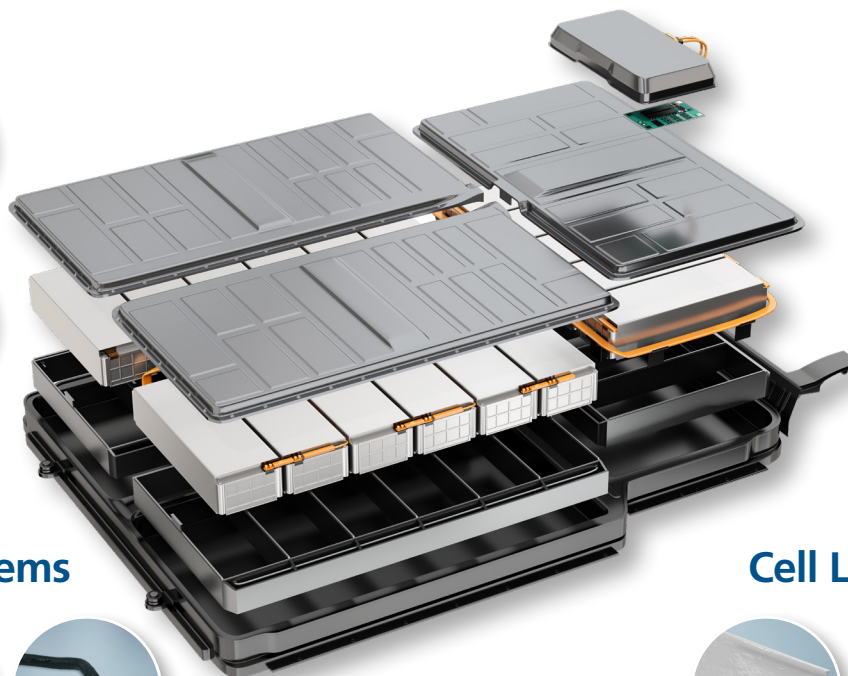


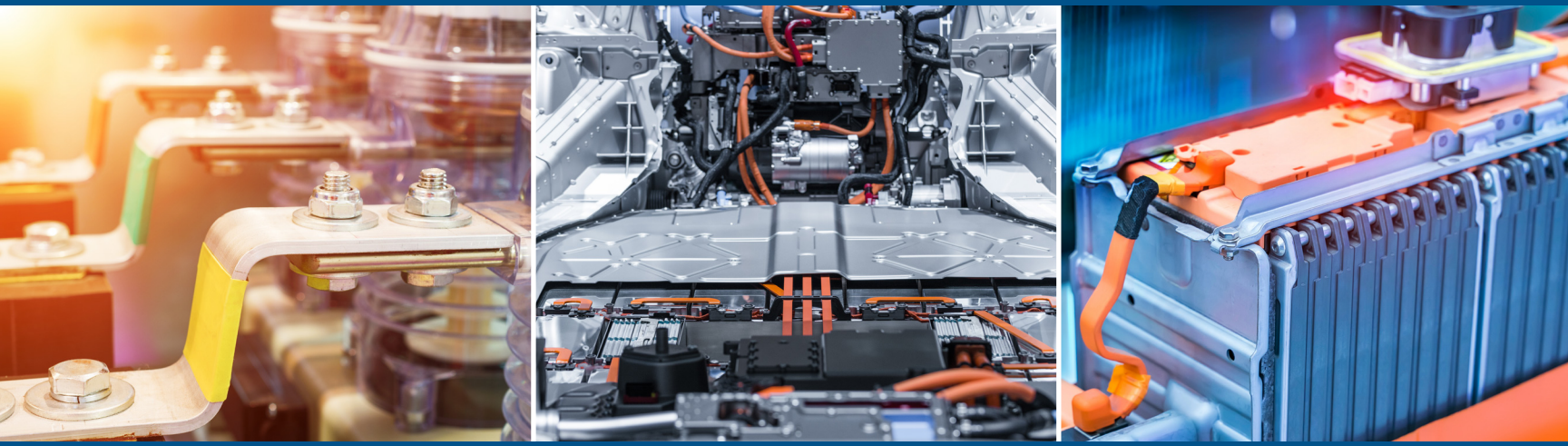
FyreJacket® 1660

### Cell Level Protection



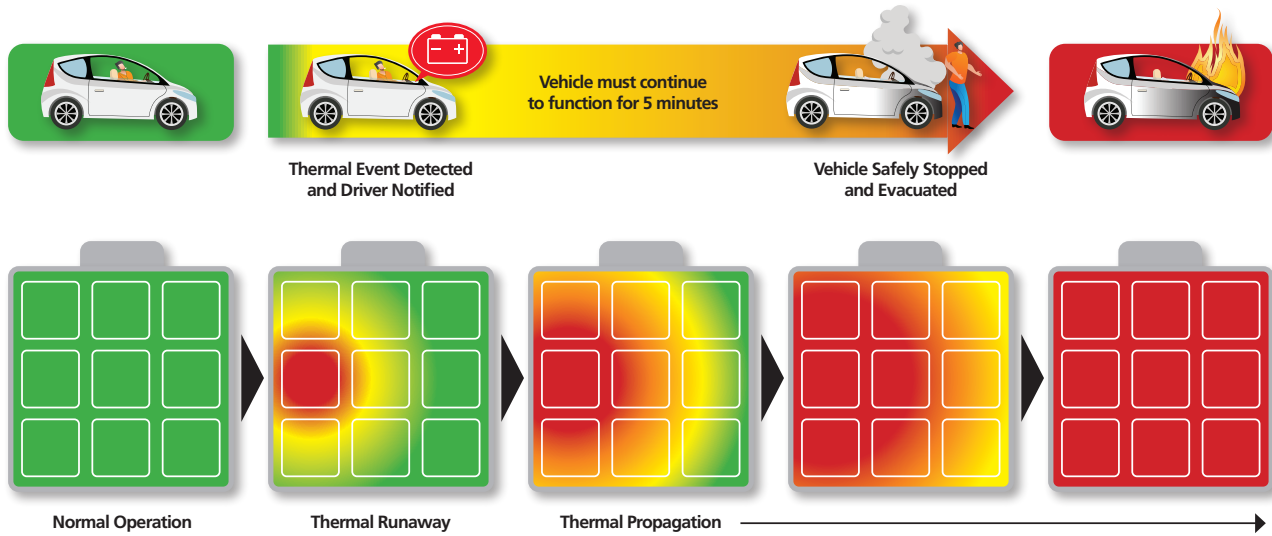
Engineered Cell Spacers



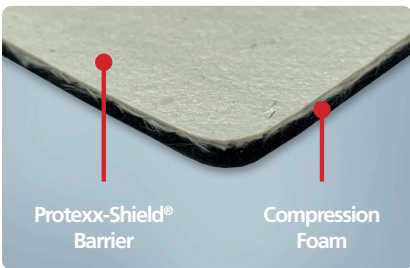


# Thermal Runaway at a Glance

Systems Protection's technology allows critical components to maintain function during Thermal Runaway improving safety of entire system.



## Thermal Runaway + Compression Properties: Representative Concept



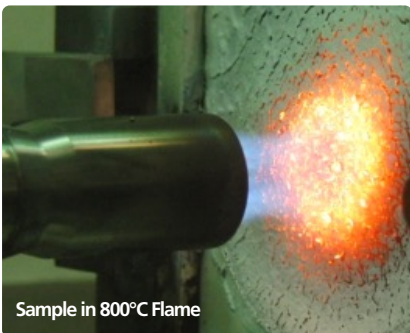
### Representative Properties:

- Thickness: 2.8mm
- Material Type:
  - Thermal Runaway: Protexx-Shield®
  - Compression: PU Foam
- Thermal Conductivity: 0.043 [W/(m\*K)] at 23°C
- Thermal Runaway Survival 800C x 10 min No Burn-through

### Product Capabilities:

- **Customization for:**
  - Thickness
  - Compression properties
  - Anti-Thermal Propagation Properties
  - Geometry
  - Adhesive mounting capabilities

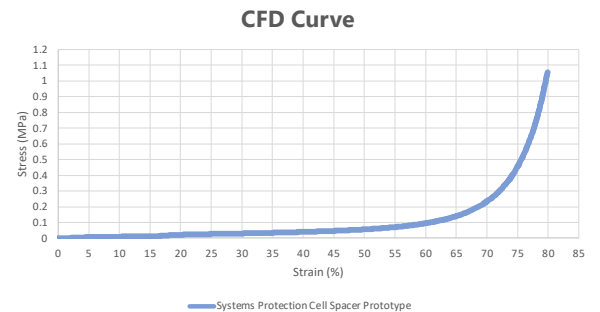
## Thermal Runaway Results



Torch Temp	Torch Dwell Time	Max Backplate Temp	Calculated Temperature Delta (Torch vs. Backplate)
+600°C	10 min.	+91°C	+509°C
+810°C	10 min.	+405°C	+405°C

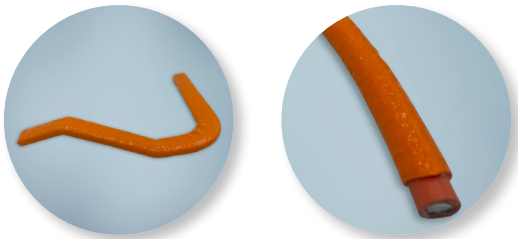
- Compression Force:**
- at 25% Strain = 0.0276 MPa
  - at 75% Strain = 0.4175 MPa

*These properties are all able to be fined tuned based on specific application requirements.*



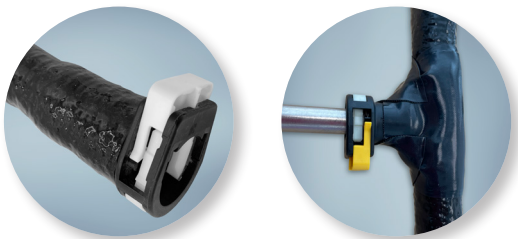


# Battery Protection Solutions



## FyreJacket® 1650 - Premier Busbar Protection

- Dielectric protection before, during & after thermal runaway
- Highest level of protection under harsh Thermal Runaway
- Contours along complex geometries
- Moves with flexible busbar & HV Cable
- Repeatable, Reliable & Fast Installation
- Available in multiple sizes and customized lengths



## FyreJacket® 1660 - Coolant Line Thermal Protection

- Prevents flame / high temperatures from causing leaks to battery coolant lines near battery vent or inside pack
- Protection from +1000°C flame for 20 minutes
- Protects from hot gas temperatures of +1000°C for 5 minutes
- Protects complex shapes
- Compatible with Systems Protection Silicone Tape for sealed solution and connection ports

## Protexx-Shield® - All-in-One Solution Providing Flame Barrier and Thermal / Electrical Insulation

### Battery Case Lining

- Keep thermal runaway INSIDE case
- Dielectric insulation
- Prevent touch condition that can cause thermal runaway
- Prevent case from becoming electrically charged

### Structural / Stamped Component Protection

- Dielectric insulation
- Prevent touch condition that can cause thermal runaway

### Module Level Protection

- Keep thermal runaway INSIDE module
- Dielectric insulation
- Prevent touch condition that can cause thermal runaway

### CCS (Cells Contact System)

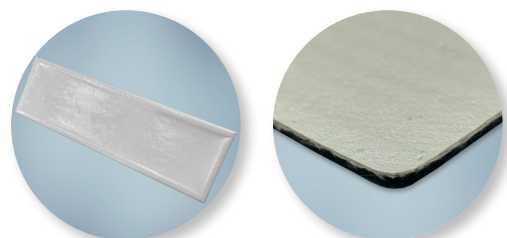
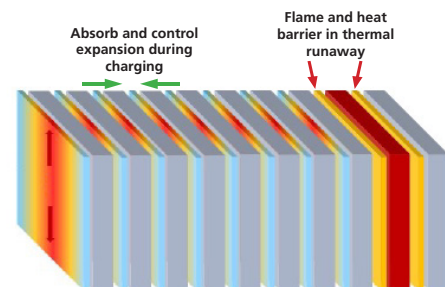
- Protect CCS from thermal runaway




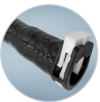
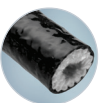



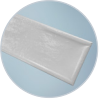

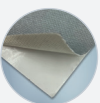
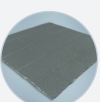


## Engineered Cell Spacers - Highly Engineered Solutions Providing Anti-Propagation Protection

### Customized Solution Properties Per Application

- Engineered geometry
- Highly effective flame barrier
- Fine tuned compression properties
- Customizable level of thermal insulation
- Controlled heat transfer





Product Description	Product	Function	Temperature Rating*	Design	Construction	Typical Applications
<p><b>FyreJacket®</b> is a family of products that provides high temperature and fire protection for a range of industries. Fyrejacket products protect hoses, cables, and busbars from fire, thermal runaway, and molten splash.</p>	 <p><b>FyreJacket® 1650</b></p>	<ul style="list-style-type: none"> <li>Protection for thermal runaway</li> <li>Electrical insulation</li> </ul>	Resists 15 min x +1500°C Flame with Abusive Torch	Tubular	Fiberglass and silicone	<ul style="list-style-type: none"> <li>High voltage cables</li> <li>Rigid busbars</li> <li>Flexible busbars</li> <li>Case liners</li> <li>Cooling systems</li> </ul>
	 <p><b>FyreJacket® 1660</b></p>	<ul style="list-style-type: none"> <li>Protection of coolant line from leaks during thermal runaway</li> </ul>	Resists 20 min x +1000°C Flame, no coolant line leak	Tubular	Fiberglass and silicone	<ul style="list-style-type: none"> <li>Protects coolant lines from Thermal Runaway</li> </ul>
	 <p><b>FyreJacket® 1610</b></p>	<ul style="list-style-type: none"> <li>Thermal containment/insulation</li> <li>Reduces thermal radiation</li> </ul>	Up to +260°C (+500°F)	Tubular	Fiberglass and silicone	<ul style="list-style-type: none"> <li>Fuel lines</li> <li>Brake lines</li> <li>Power steering hose</li> <li>Heater hose</li> </ul>
	 <p><b>FyreJacket® BP-A</b></p>	<ul style="list-style-type: none"> <li>Superior flame protection</li> <li>Dielectric resistance</li> </ul>	Resists 30 min x +1000°C Flame	Tubular	Fiberglass and silicone	<ul style="list-style-type: none"> <li>Busbars</li> </ul>
	 <p><b>Industrial FyreJacket®</b></p>	<ul style="list-style-type: none"> <li>Protection against sustained high temperatures, flames and molten metal splashes</li> </ul>	-54°C to +260°C (-65°F to +500°F)	Tubular	Fiberglass and silicone	<ul style="list-style-type: none"> <li>Hydraulic hoses</li> <li>Steel cables</li> </ul>
	 <p><b>FyreJacket® HL</b></p>	<ul style="list-style-type: none"> <li>Wrappable fire protection utilizing a specialty hook and loop closure</li> </ul>	-60°C to +125°C (-76°F to +257°F)	Wrappable	Fiberglass and silicone	<ul style="list-style-type: none"> <li>Electrical cables</li> <li>Hydraulic, gas and lubricant supply lines</li> </ul>
<p><b>FyreTape®</b> is a silicone-coated tape with good fire protection; may be used to replace or compliment FyreJacket®</p>	 <p><b>FyreTape®</b></p>	<ul style="list-style-type: none"> <li>Excellent thermal protection</li> </ul>	-54°C to +260°C (-65°F to +500°F)	Wrappable	Fiberglass and silicone	<ul style="list-style-type: none"> <li>Heater hoses</li> <li>Power steering hoses</li> </ul>
<p><b>Engineered Cell Spacers</b> are used to separate individual battery cells within a battery pack to enhance performance and safety.</p>	 <p><b>Engineered Cell Spacers</b></p>	<ul style="list-style-type: none"> <li>Thermal and electrical insulation</li> </ul>	Thermal Runaway Survival +800°C x 10 min No Burn-through	2-D Die-cut part (application specific)	Multiple layer engineered composite structure composed of Protexx-Shield® and PU Foam	<ul style="list-style-type: none"> <li>Prismatic Cell Compression</li> <li>Thermal Runaway Protection</li> <li>Pouch Cell Compression</li> </ul>
<p><b>Protexx-Shield®</b> is a thin, flexible thermal and flame barrier specifically designed as anti-propagation protection within EV battery pack. Product is an engineered composite structure that provides functionality as a flame barrier and provides thermal insulation and electrical insulation.</p>	 <p><b>Protexx-Shield® BP-B</b></p>	<ul style="list-style-type: none"> <li>Thermal and electrical insulation</li> </ul>	Flame Protection of +1000°C (+1832°F) x 10minutes	2-D Die-cut part (application specific)	Silica fabric with specialty coating and high temperature pressure sensitive adhesive backing	<ul style="list-style-type: none"> <li>Limit propagation of thermal runaway</li> <li>EV battery case liner</li> <li>EV battery pack</li> </ul>
	 <p><b>Protexx-Shield® 7000 / 7005 / 7010</b></p>	<ul style="list-style-type: none"> <li>Thermal and electrical insulation</li> </ul>	Flame Protection of +1000°C (+1832°F) x 10minutes	2-D Die-cut part (application specific)	Silica fabric with specialty coating available with various high temperature pressure sensitive adhesive backing	<ul style="list-style-type: none"> <li>Limit propagation of thermal runaway</li> <li>EV battery case liner</li> <li>EV battery pack</li> </ul>
	 <p><b>Protexx-Shield® 7015</b></p>	<ul style="list-style-type: none"> <li>Thermal and electrical insulation</li> </ul>	Flame Protection of +1000°C (+1832°F) x 10minutes	2-D Die-cut part (application specific)	Silica fabric with specialty coating	<ul style="list-style-type: none"> <li>Limit propagation of thermal runaway</li> <li>EV battery case liner</li> </ul>
	 <p><b>Protexx-Shield® 7030</b></p>	<ul style="list-style-type: none"> <li>Protection for Thermal Runaway</li> </ul>	Flame Protection of +1000°C (+1832°F) x 10minutes	2-D Die-cut part (application specific)	Multi-layer composite structure with pressure sensitive adhesive backing that includes release paper	<ul style="list-style-type: none"> <li>Limit propagation of thermal runaway</li> <li>EV battery case liner</li> </ul>
	 <p><b>Protexx-Shield® 7040 / 7045</b></p>	<ul style="list-style-type: none"> <li>Thermal and electrical insulation</li> </ul>	Flame Protection of +1000°C (+1832°F) x 10minutes	2-D Die-cut part (application specific)	Multiple layer engineered composite structure	<ul style="list-style-type: none"> <li>Limit propagation of thermal runaway</li> <li>EV battery case liner</li> <li>EV battery pack</li> </ul>
<p><b>Silicone Tape</b> is used for sealing, connecting and finishing the cut ends of sleeves exposed to high temperature.</p>	 <p><b>Silicone Tape 64R</b></p>	<ul style="list-style-type: none"> <li>Bundling</li> <li>Mechanical protection</li> </ul>	Resists 10min x +1000°C flame	Flat / Wrappable	Silicone	<ul style="list-style-type: none"> <li>Sealing, connecting and finishing cut ends</li> <li>Connect multiple pieces of FyreJacket®</li> </ul>
	 <p><b>Silicone Tape 69N</b></p>	<ul style="list-style-type: none"> <li>Bundling</li> <li>Mechanical protection</li> </ul>	-60°C to +260°C (-76°F to +500°F)	Flat / Wrappable	Silicone	<ul style="list-style-type: none"> <li>Fluid resistance</li> <li>Sealing, connecting and finishing cut ends</li> </ul>

\* Temperature ratings may vary due to alternate OEM test requirements

# Other Protection Needs | Impact Resistant / Crash



Product Description	Product	Function	Temperature Rating*	Design	Construction	Typical Applications
<p><b>CrushShield®</b> is a lightweight and flexible sleeve that offers superior cut-through resistance. During crash situations the construction enables the product to absorb and disperse energy, thus preventing damage to the electrical cable inside.</p>	<p><b>CrushShield® 2442</b></p>	<ul style="list-style-type: none"> <li>Absorbs and disperses energy to provide protection from impact</li> <li>Anti-cut through protection</li> <li>Extreme abrasion protection</li> </ul>	+150°C (+302°F)	Wrappable	PET (polyester) monofilaments and multifilaments	<ul style="list-style-type: none"> <li>Automotive high voltage cables and low voltage wire harnesses</li> <li>Critical function automotive tubing</li> </ul>
	<p><b>CrushShield®</b></p>	<ul style="list-style-type: none"> <li>Superior cut-through protection for electrical cables</li> </ul>	+150°C (+302°F)	Wrappable	PET (polyester) monofilaments and multifilaments	<ul style="list-style-type: none"> <li>Industrial wiring harness</li> <li>Industrial metal tubing</li> <li>Industrial high voltage electrical cables</li> </ul>
<p><b>NyloGard®</b> is a durable, tightly woven sleeve providing superior abrasion and cut-through protection for severe environments.</p>	<p><b>NyloGard® 2455</b></p>	<ul style="list-style-type: none"> <li>Extreme abrasion</li> <li>Crash applications</li> <li>Orange color to identify High Voltage</li> </ul>	+150°C (+302°F)	Wrappable	PET (polyester) multifilaments	<ul style="list-style-type: none"> <li>Hoses</li> <li>Cables and Wires</li> <li>Fuel Filler Tubes</li> <li>Impact Resistant Tubes</li> </ul>
	<p><b>NyloGard® 2454</b></p>	<ul style="list-style-type: none"> <li>Extreme abrasion</li> <li>Crash applications</li> <li>Orange color to identify High Voltage</li> </ul>	+150°C (+302°F)	Tubular	PET (polyester) multifilaments	<ul style="list-style-type: none"> <li>Hoses</li> <li>Cables and Wires</li> <li>Fuel Filler Tubes</li> <li>Impact Resistant Tubes</li> </ul>
	<p><b>NyloGard® 2451SA / 2451SP</b></p>	<ul style="list-style-type: none"> <li>Extreme abrasion</li> <li>Crash applications</li> <li>Integrated adhesive locating system</li> <li>compatible with low surface energy materials</li> </ul>	+125°C (+257°F)	Die-cut patch (application specific)	PA6 (nylon 6) multifilaments with adhesive backing	<ul style="list-style-type: none"> <li>Hoses</li> <li>Plastic Reservoirs</li> <li>Other Components</li> <li>Places with challenging geometries</li> </ul>

# Other Protection Needs | Electromagnetic Interference



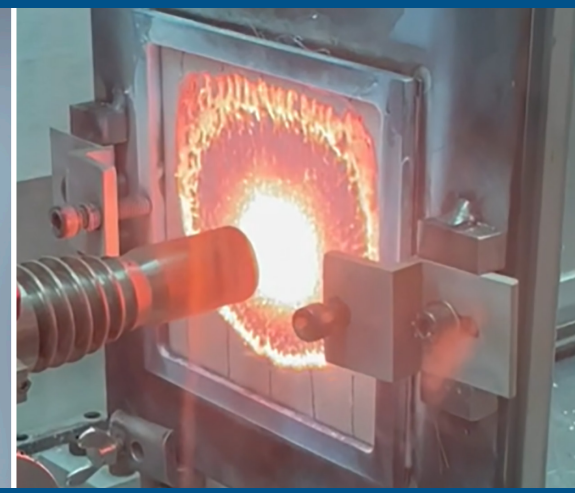
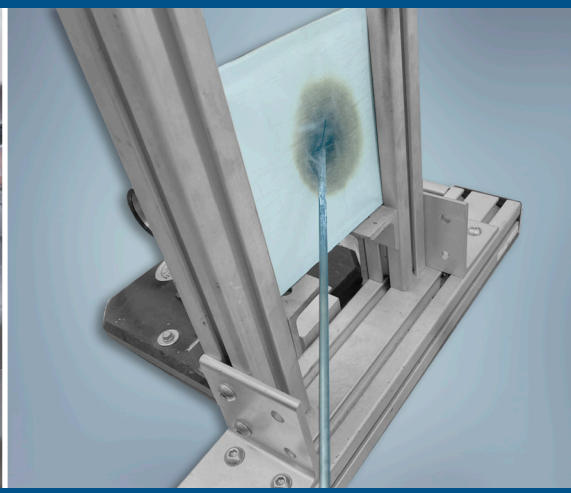
Product Description	Product	Function	Temperature Rating*	Design	Construction	Typical Applications
<p><b>TwistTube®</b> is a flexible, wrappable sleeve that offers a combination of EMI shielding along with the typical easy installation of a TwistTube product.</p>	<p><b>TwistTube® 2472</b></p>	<ul style="list-style-type: none"> <li>EMI shielding</li> </ul>	+150°C (+302°F)	Wrappable	PET (polyester) monofilaments and stainless steel wire twisted with PET (polyester) multifilaments	<ul style="list-style-type: none"> <li>Instrument Panel Harnesses</li> <li>Engine Compartment Harnesses</li> <li>Battery Cables</li> <li>Interior Harnesses</li> </ul>
	<p><b>TwistTube® 2473</b></p>	<ul style="list-style-type: none"> <li>EMI shielding</li> </ul>	Up to +260°C (+500°F)	Wrappable	PET (polyester) monofilaments and tinned copper wire twisted with PET (polyester) multifilaments	<ul style="list-style-type: none"> <li>Instrument Panel Harnesses</li> <li>Engine Compartment Harnesses</li> <li>Tubing, Hose and Cable Assemblies</li> <li>Battery Cables</li> </ul>

# Other Protection Needs | Abrasion / Mechanical



Product Description	Product	Function	Temperature Rating*	Design	Construction	Typical Applications
<p><b>TwistTube®</b> is a flexible, wrappable sleeve that offers an excellent level of protection combining abrasion resistance with noise suppression capabilities.</p> <p>Versions also available with EMI shielding capability.</p>	<p><b>TwistTube® 2424</b></p>	<ul style="list-style-type: none"> <li>Bundling and light to moderate abrasion</li> </ul>	+150°C (+302°F)	Wrappable	PET (polyester) monofilaments and multifilaments	<ul style="list-style-type: none"> <li>High Voltage Cables</li> <li>Hybrid vehicles</li> </ul>
	<p><b>TwistTube® 2424XT</b></p>	<ul style="list-style-type: none"> <li>Bundling and light to moderate abrasion</li> </ul>	+150°C (+302°F)	Wrappable	PET (polyester) monofilaments and multifilaments	<ul style="list-style-type: none"> <li>High Voltage Cables</li> <li>Hybrid vehicles</li> </ul>
	<p><b>TwistTube® 2439</b></p>	<ul style="list-style-type: none"> <li>Bundling and light abrasion</li> </ul>	+200°C (+392°F)	Wrappable	PPS (polyphenylene sulfide) monofilaments	<ul style="list-style-type: none"> <li>Wire Harnesses</li> <li>Tubing, Hose &amp; Cable Assemblies</li> </ul>
	<p><b>TwistTube® 2440</b></p>	<ul style="list-style-type: none"> <li>Bundling and light to moderate abrasion</li> </ul>	+200°C (+392°F)	Wrappable	Aramid multifilaments and PPS (polyphenylene sulfide) monofilaments	<ul style="list-style-type: none"> <li>Wire Harnesses</li> <li>Tubing, Hose &amp; Cable Assemblies</li> </ul>

\* Temperature ratings may vary due to alternate OEM test requirements



## Testing Capabilities & Virtual Lab

**Systems Protection (SP) is committed to providing our customers with outstanding technical support in all stages of the product application process.**

From material selection and product development through qualification and application specific testing, our world-class technology centers utilize state-of-the art test equipment to simulate real-life conditions and evaluate the full breadth of our product performance. Our testing capabilities are continually expanding to support our customer's needs and provide evaluation for the following:

- **Acoustical:** sound damping and absorption
- **Crash / Impact:** custom crash scenario simulation, dynamic cut-through, and drop energy
- **EMI (Electromagnetic Interference):** transfer impedance, shielding effectiveness and electrical resistance
- **Environmental:** flammability, smoke density, toxicity, fluids exposure, durability, fogging, stone impingements, salt spray, and humidity
- **Material Analysis:** melting point, specific heat, infrared spectroscopy (FTIR), emissivity, thermal conductivity.
- **Mechanical:** abrasion resistance, tensile strength, elongation, tear strength, vibration resistance, peel strength, flexural strength
- **Thermal:** Thermal effectiveness, thermal containment / insulation, and Thermal Runaway simulation



## Virtual Lab

As a value to our customers, SP has created and utilizes a virtual environment to allow design release engineers remote access to our labs to observe live testing and consult with testing staff. This no cost service allows our customers to better understand test methods and set up especially in the event that a relevant test method does not exist. Our teams work to develop new test methods that accurately quantify product performance and can demonstrate in real time for customer approval.



## New Product Design & Customization

**Systems Protection (SP) takes pride in being a solution provider and partner to our customers by working to deliver the right solution for each application.**

We recognize that not every problem can be solved with a single product. By listening to our customers, we gain a better understanding of current industry challenges and are committed to developing new products to meet these demands in the ever-changing marketplace.

SP is continually evolving its product portfolio by drawing from a broad range of capabilities and expertise. Utilizing a variety of different materials, constructions, processes, and design features, we create new innovative products to meet needs for performance, survivability, and installation. Through collaboration with our customers, innovative ideas, and quick prototype fabrication, we deliver the optimal solution for each application.

### Materials

Utilizing an extensive materials portfolio and the latest advancements in technology, SP strategically selects and blends unique fibers, coatings, adhesives, and other materials to create cost effective multifunctional designs capable of surviving in extreme conditions while providing varying levels of performance. SP strives to do its part in meeting environmental and eco-friendly initiatives including RoHS and REACH compliance by selecting appropriate materials.

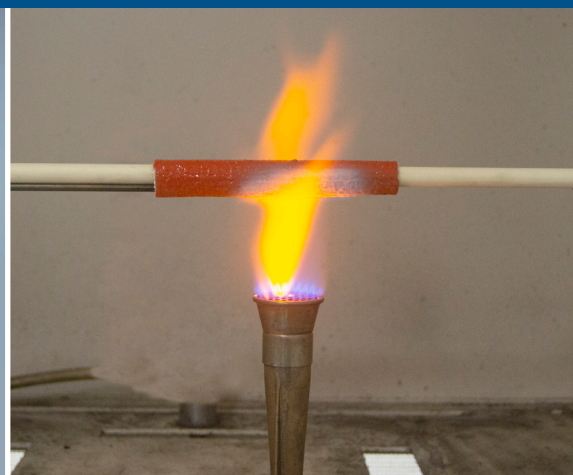
### Processes

With our textile foundation encompassing weaving, braiding, knitting and non-woven processes, SP prides itself in utilizing the best textile process for each application. Through variable construction attributes within each textile process, a balance of different metrics including technical performance, durability, install ability, expandability, and use ability can be met.

### Adding Value

SP looks to add value to our textiles and products through the incorporation of secondary processes, design features and customization in order to enhance performance and functionality. Lamination and coatings allow designers to add secondary materials to the textile to meet tougher requirements and provide multi-functionality. Custom cutting, notching and forming provide superior fit and aesthetics. The incorporation of adhesive strips, snaps, and custom attachments deliver quick and repeatable installation.

**Please contact us to discuss your unique requirements so that we can help to develop the best solution for your application.**



## Engineering & Certifications

**Systems Protection (SP) utilizes a customer focused engineering model to quickly solve technical problems and support customer challenges.**

From application engineering in the field through new product design and testing, we strive to provide excellent technical support in all aspects of the engineering process.

### Speed

SP employs an extensive global technical team to support both design and manufacturing challenges. When needed, we are available to work with our customers onsite to help diagnose problems, identify root causes, and select the right product from a comprehensive product portfolio to ensure that each unique application is addressed.

### Expertise

Drawing from a wealth of experience and proven success in the field, we can assist in reverse engineering, application modeling, and customized testing to help simulate the application so a solution can be quickly identified and validated.

### Commitment

SP embraces the demand for new products in the ever changing marketplace. Collaborating with our customers on the development of new products, we are dedicated to supporting the complete process from problem identification, through design and testing, and finally ensuring that implementation and documentation is smooth and complete.

## Certifications

Systems Protection is committed to providing the highest quality systems for our customers, employees, and environment and continues to follow the rigorous requirements needed to maintain several industry certifications. We are proud to confirm the following certifications:

- ISO 9001, IATF 16949, AS/EN 9100: Quality Management Systems
- ISO14001: Environmental Management Systems
- ISO 45001: Occupational Health and Safety Management Systems



# Global Presence



## Americas

### GLOBAL INNOVATION CENTER:

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### ENGINEERING AND TECHNICAL SERVICES:

United States Exton, PA

### SALES OFFICES:

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**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

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

## 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:

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 Hungary Kimle  
 Morocco Tangier

## Asia

### ENGINEERING AND TECHNICAL SERVICES:

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 China Shanghai

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 Tianjin • Guangzhou • Beijing  
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 Korea (82) 44 861 6368 Sejong  
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