

HYBRID BUS PROTECTION SOLUTIONS

SUPERIOR PROTECTION PRODUCTS
FOR THE HYBRID BUS MARKET



Challenges

- Thermal Protection
- Abrasion protection
- Electrical and Electromagnetic Interference (EMI)
- Fluid resistance
- Space savings
- Zero halogen

Applications

- HEV power cables
- High voltage cables
- Engine compartment harnesses
- Instrument panel harnesses
- Hoses, tubes, and cables
- EGR, turbo, and exhaust pipes
- Connector protection

Experience

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



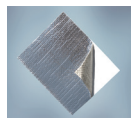
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more about our products

With the acceleration of green transportation initiatives, bus manufacturers face the unprecedented challenges posed by hybrid systems. Systems Protection successfully serves the transportation hybrid market with robust products, strong technical services, and global manufacturing and distribution. As the component protection supplier of choice, SP is ready to serve the needs of today's bus manufacturer.



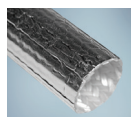
ThermoJacket® E

- Operating temperature up to +650°C (+1202°F)
- Developed for complex needs of exhaust systems with excellent resistance to high temperatures
- Innovative design is highly expandable to accommodate flanges and bends



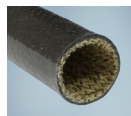
Therm-L-Gard® A

- Operating temperature up to +177°C (+350°F)
- Unique shielding system offers high temperature fabric that self-adheres directly onto component
- Superior radiant heat protection and local EMI shielding that is easy to install



Therm-L-Lite® FG

- Operating temperature up to +200°C (+392°F)
- Excellent protection against radiant heat
- Open design aides in installation
- Fluid and chemical resistant



ThermGuard™

- Operating temperature up to +225°C (+437°F)
- Excellent thermal protection
- Excellent abrasion resistance
- Non-flammable



Therm-L-Wrap™

- Operating temperature from -60°C to +200°C (-76°F to +392°F)
- Self-wrapping sleeve with an adhesive closure offers excellent radiant and convective heat protection
- Unique design offers good flexibility not found in other reflective products



ConvoShield® AL

- Operating temperature up to +150°C (+302°F)
- Reflects radiant heat away from protected component, reducing component temperature
- Enhances harness rigidity
- Fluid resistant



Expando® DM

- Operating temperature up to +125°C (+257°F)
- UL Recognized component
- Outstanding protection against abrasion and cut-through
- Does not trap heat or humidity

DATASHEET



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

* **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

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 Hungary Kimle
 Morocco Tangier

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 Tianjin • Guangzhou • Beijing
 Thailand (66) 35 276 400 Aiyutthaya
 Korea (82) 44 861 6368 Sejong
 India (91) 124 4784565 Gurgaon, NCR Delhi
 Chennai

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 China Changshu • Tianjin
 Thailand Aiyutthaya
 Korea Sejong
 Vietnam Haiphong
 India Bhiwadi
 Philippines Laguna

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BentleyHarris
 Protection Products

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