

Product Highlights

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

Typical Applications

- Battery cables
- Wiring systems
- Electronic sensor control wiring
- Critical harnesses exposed to radiant heat

ConvoShield® is a reflective convolute sleeve designed to provide thermal protection for components in radiant heat environments. Composed of a high temperature nylon 4,6 polymer base substrate and a highly reflective coating, ConvoShield provides protection for wires, cables and hoses in applications that have radiant heat source temperatures as high as 538°C (1000°F).

The reflective surface is extremely resistant to automotive fluids and may be classed as insulative against 12 volt automotive currents. Because of its unique blend of thermal and insulative properties, as well as its aesthetic appearance, it is ideal for applications such as battery cables and alternator wiring harnesses.



Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)

Performance Data – ConvoShield®

| Property | Test Method | Result |
|---|----------------------------|---|
| Cold Bend Test | (Ref DP Spec ES-C-836) | -40°C |
| Fluid Resistance (30 min soak) Brake Fluid Gasoline Diesel Fuel (60 minutes) Antifreeze Solution Motor Oil Transmission Fluid Power Steering Fluid Distilled Water 3% Salt Solution Washer Fluid | BH 100-003 (ref MS-NA1-7) | No sign of product degradation or delamination of coating |
| Thermal Performance | BH 100-004 (ref SAE J2302) | See graphic illustration below |
| Heat Aging Oven Aging at 170°C for 168 hours | (Ref DP Spec ES-C-836) | Product unaffected - per visual inspection |

All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

Construction and Typical Product Characteristics

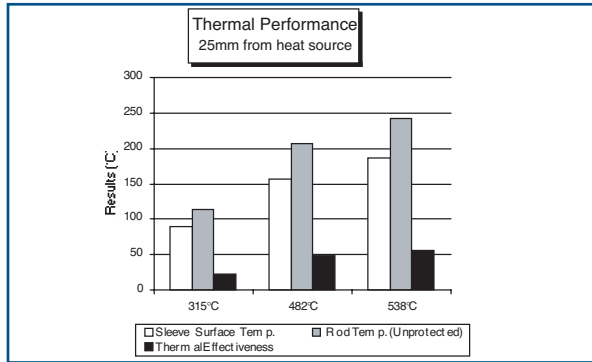
| | |
|--------------------------|------------------------------------|
| Exterior Surface | Highly Reflective Aluminum Coating |
| Substrate Base | Nylon 4, 6 Polymer |
| Substrate Surface | Thermoplastic Molded Tubing |

Availability

ConvoShield is currently available in sizes from 6mm to 19mm (ID) cut to your specifications. Tubular and slit versions are available dependent upon specific application. Color is aluminum.

Thermal Efficiency Measurements

BH 100-004 (ref. SAE J2302)



United States: (1) 800 926 2472 • **México:** (52) 442 101 8100 • **Brazil:** (55) 19 3116 1600
EMEA: (33) 3 44 39 06 06 • **Japan:** (81) 45 330 0300 • **China:** (86) 21 6182 7560
Southeast Asia: (66) 35 276 400 • **Korea:** (82) 44 861 6368 • **India:** (91) 124 4784565
www.systemsprotection.com



For informational purposes only. SP makes no warranties as to the accuracy or completeness of the information provided herein and disclaims any liability in connection with its use. SP's only obligations are those provided in its terms and conditions of sale for this product, and SP will not be liable for any damages, whether direct or indirect, arising out of the use or misuse of this product. Users should undertake their own evaluations to determine the suitability of the product for specific applications. ©2024 Systems Protection - A Tenneco Company, manufacturer of Bentley-Harris protection products.

CNVSHIELD-GL(EN-LTR)A