



THERMAL MANAGEMENT

ConvoShield®

Product Highlights

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

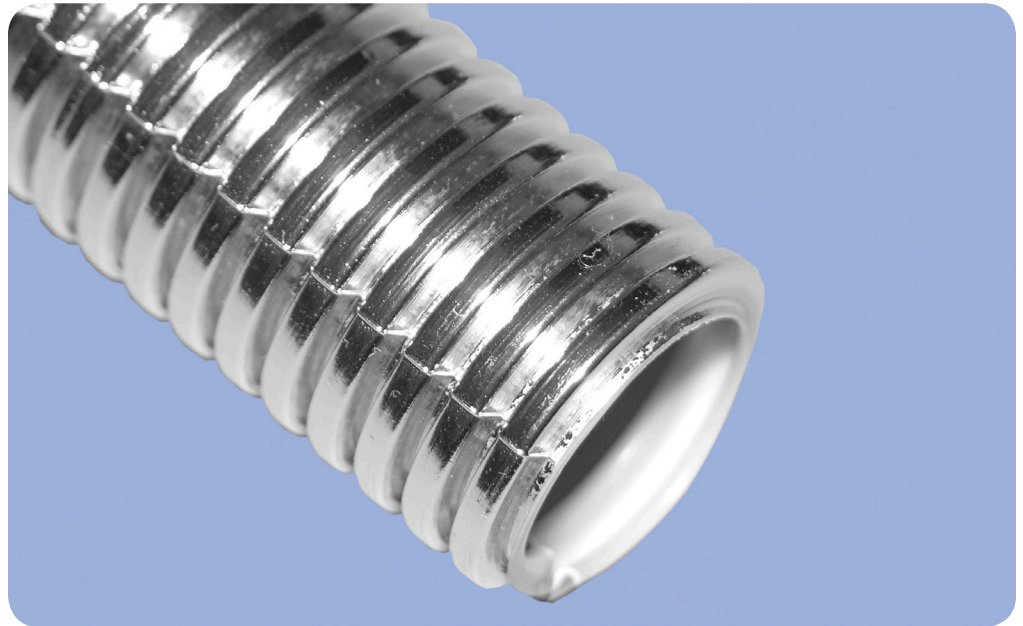
Typical Applications

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



Our manufacturing sites are certified ISO 9000, QS 9000 or ISO/TS 16949 and ISO 14001

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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.

BentleyHarris®
Protection Products

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.

Construction and Typical Product Characteristics

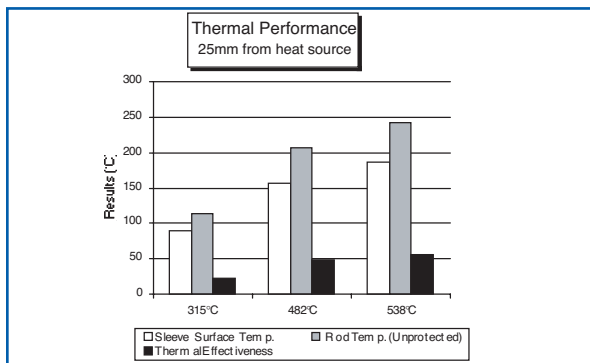
Exterior Surface	Highly Reflective Aluminum Coating
Substrate Base	Nylon 4, 6 Polymer
Substrate Surface	Thermoplastic Molded Tubing

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)



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