



## Product Highlights

- Operating temperature from -40°C to +150°C (-40°F to +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® AL** 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 AL 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.



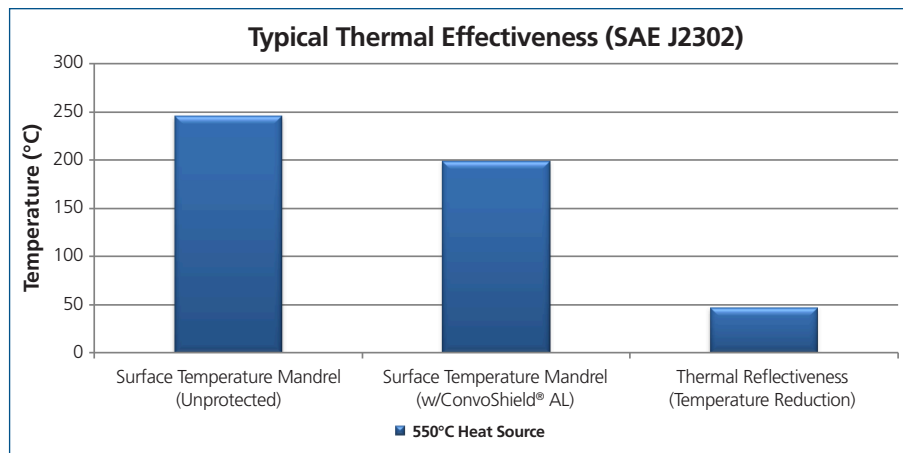
Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)

# Performance Data – ConvoShield® AL

Property	Test Method	Result
Temperature Rating	240 hours at +175°C (+150°C rating)	Pass +150°C (+302°F)
Low Temperature Flexibility	SAE J2192	Pass -40°C (-40°F)
Fluid Resistance	SAE J2192	Pass

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

## Thermal Effectiveness of Sleeving Insulation



Note: Mandrel is parallel to and 25mm (1") away from heat source

## Availability

Standard sizes are listed here. Additional sizes could be available upon request.

Available in tubular and slit form. Customization for optimal installation also available

Available in custom cut lengths. Recommended cut lengths are in 5mm increments. Please see regional drawings for cut length tolerances.

Please consult your local sales representative for regional packaging details and standards.

## Construction and Typical Product Characteristics

<b>Outer Layer:</b>	Reflective coating
<b>Inner Layer:</b>	Nylon 46 (PA46) convolute

## Standard Sizes

Nominal Diameter (mm)	Internal Diameter (mm)
6	7.40
10	10.55
13	13.15
16	16.40
19	19.50
22	22.30
25	25.80



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