

ROBOTICS AND AUTOMATION SOLUTIONS

CABLE AND HOSE PROTECTION FOR THE ROBOTICS AND AUTOMATION MARKETS



Challenges

- Continuous motion and cable flexing
- Abrasion from repetitive movement and contact surfaces
- Cable entanglement and snagging risks
- Exposure to heat from motors and nearby equipment
- Tight routing in compact robotic assemblies
- Protection at pinch points and articulation joints

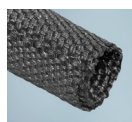
Applications

- Industrial Robotic Arms and Joints
- Automated Assembly Lines
- End-of-arm tooling (EOAT)
- Cable Management Systems
- Fiber Optic Cables

Experience

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

The impact of inadequate protection of cables and hoses in robotic systems can be significant, with unplanned downtime leading to costly production interruptions. Protective materials help reduce abrasion, entanglement, and thermal damage, making high-performance components essential in modern automation environments. Systems Protection offers a range of solutions, from tightly woven sleeving that prevents wear and cable interference to thermal and EMI shielding products that support reliable operation in demanding industrial conditions.



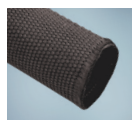
ROUNDIT® 2601 / Organization and Abrasion

- Operating temperature from -70°C to +125°C (-94°F to +257°F)
- Self-wrapping design
- Easy to apply and remove
- Ideal for reworking components without disconnecting them



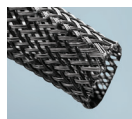
ROUNDIT® 2602 / Organization and Abrasion / Noise Suppression

- Operating temperature up to +150°C (+302°F)
- Self-closing tubular design
- Excellent abrasion resistance
- Noise suppression



ProGard® 2631 / Sharp Edges and Pinch Points

- Operating temperature up to +125°C (+260°F)
- Enhanced abrasion resistance
- High coverage for maximum protection
- Fluid resistant



Expando® 2621 / Organization and Abrasion

- Operating temperature from -70°C to +125°C (-94°F to +257°F)
- UL recognized component
- Outstanding protection against abrasion and cut-through
- Does not trap heat or humidity



Protexx-Shield® 2640 / Thermal / Electrical Insulation

- Flame Protection of +1000°C (+1832°F) x 10minutes
- Low voltage wiring in EV battery pack
- Efficient level of thermal insulation (+600°C / +1112°F)
- Customized designs for custom fit



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