

### Technology Solutions



### **About Systems Protection**

Federal-Mogul Systems Protection (FMSP) is the world's foremost supplier of protective sleeving and shielding solutions for wires, hoses, and mechanical assemblies. Major industries served include automotive, aerospace and defense, as well as a host of industrial segments. With sales, manufacturing, and innovation centers located in the Americas, Europe and Asia, FMSP delivers the broadest, most innovative product portfolio to both original equipment and tier suppliers. FMSP is the proud manufacturer of Bentley-Harris® protection products.

### **About Federal-Mogul**

Headquartered in Southfield, Michigan, Federal-Mogul Corporation is a leading global supplier of powertrain and safety technologies, serving the world's foremost original equipment manufacturers of automotive, light commercial, heavy-duty, agricultural, marine, rail, off-road and industrial vehicles, as well as the worldwide aftermarket. With locations in 35 countries, the company's leading technology and innovation, lean manufacturing expertise, as well as marketing and distribution deliver world-class products, brands and services.

### **Our Mission**

To be recognized by our customers, on a worldwide basis, as the pre-eminent supplier of protection products, by providing excellent product value, outstanding customer service and innovative product solutions.







### **About Innovative Technology Solutions**



Innovative Technology Solutions (ITS) offers a comprehensive line of bundling and component protection solutions. Our wide range of products include sleeving and shielding to protect against abrasion, radiant and convective heat, and electromagnetic interference.

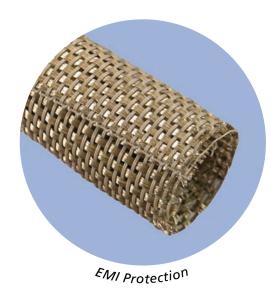
ITS, a division of Federal-Mogul Systems Protection, is focused on serving customers in a variety of transportation and industrial markets, including:



With excellent products, strong technical services, and global manufacturing and distribution, ITS is the supplier of choice for component protection.



## Senson/Connector Protection



### **Leading Edge Solutions**

Federal-Mogul Systems Protection is committed to the continual development of innovative solutions that meet your ever changing needs. From concept to commercialization, we focus on the advancement of engineering technologies from our state-of-the-art research, development and testing facilities located worldwide. Our specific areas of concentration include:

- Abrasion & Damage Protection
- Acoustic Noise Generation & Propagation
- Heat Generation & Absorption
- Materials Engineering
- Electromagnetic Shielding

Our experienced technical teams are focused on new technology exploration as well as new product development. With innovation facilities in North America, Europe and Asia, we are fully staffed to ensure quick and appropriate customer response.

And with certifications including ISO/TS 16949:2002 for Quality Management Systems, and ISO 14001:2004 for Environmental Management with conformity for Occupational Health & Safety, you'll always be assured of the quality and reliability of our products.













### **Exceptional Capabilities**

The ITS Group is committed to providing customers with extensive technical support related to their application requirements. We offer extensive qualification reports on our components though our world-class technology centers. Utilizing state-of-the art test equipment, we are able to simulate real-life conditions that allow you to evaluate our product performance for your specific application. Testing capabilities provide evaluation of the following:

- Acoustical: sound dampening and absorption effect of a product
- **EMI:** ability of a component to dissipate or shield from electromagnetic interference
- **Environmental:** product performance in terms of anticipated environmental conditions, including flammability, smoke density, durability, fogging, stone impingements, and humidity
- **Mechanical:** abrasion resistance, tensile strength, and impact effect on a product under various stress conditions
- **Thermal:** insulating ability of a product to protect or contain heat from an external or internal heat source

Our ability to simulate customer specific scenarios on-site, utilize predictive modeling and conduct extensive testing enables us to quickly respond and deliver the highest level of protection for your applications. Our technical teams are at your disposal to define and conduct the tests most appropriate to your component needs.



### **Abrasion / Mechanical Protection**



	Product	Description	Temperature	Flammability	Halogen Free	Aerospace Grade*	UL Recognized	Construction	Available Sizes
	Expando® PT Plus	Highly expandable braid (1:3) with strong mechanical protection; treated to prevent end-fray; available in a variety of colors for identification	-70°C to +125°C (-94°F to +257°F)		<b>√</b>		✓	Material: Polyester Colors: Natural, Black, Yellow, Blue, Gray, Orange	3 to 64 mm (1/8" to 2-1/2")
ONICS	Expando® FR Plus	Highly expandable braid (1:3) with strong mechanical protection and outstanding flame resistance; treated to prevent end-fray	-70°C to +125°C (-94°F to +257°F)	UL 1441 VW-1 FAR Part 25			✓	Material: Flame-retardant polyester Colors: Black with white tracer, White with black tracer	3 to 64 mm (1/8" to 2-1/2")
ELECTRONICS	ROUNDIT® 2000	Self-wrapping sleeve with strong mechanical protection; quick and easy installation on cables	-70°C to +125°C (-94°F to +257°F)	FMVSS-302 Test Method D45 1333 Self-extinguishing Type B	✓		✓	Material: Polyester Color: Black	5 to 45 mm (3/16" to 1-3/4")
	Expando® QT / TCP S	Highly expandable braid (1:3) with a combination of mono and multifilaments, offering both noise suppression and mechanical protection	-50°C to +150°C (-58°F to +302°F)	FMVSS-302 Test Method D45 1333 Self extinguishing Type B	✓			Material: Polyester Color: Black	3 to 32 mm (1/8" to 1-1/4")
OUSTRIAL OUSTRIAL	Expando® DM	Expandable braid (1:2) with high mechanical protection; ideal protection from cut-through	-70°C to +125°C (-94°F to +257°F)		✓		<b>√</b>	Material: Nylon and polyester Color: Black	3 to 51mm (1/8" to 2")
HEAVY INDUSI	ProGard®	Tubular woven sleeve with outstanding mechanical protection; ideal for hydraulic hose protection	-20°C to +125°C (-4°F to +257°F)		✓			Material: Nylon Color: Black	19 to 70 mm (3/4" to 2-3/4")
	ROUNDIT® 2000 FR	Self-wrapping sleeve with good mechanical protection; soft to the cable structure	-50°C to +150°C (-58°F to +302°F)	NF 16 101 - 16102 : 13 F2 DB DIN 5510 § 2 & 54837 : S4,SR2,ST2; ASTM E 662 - ASTM E 162	✓			Material: Flame-retardant polyester Color: Black	5 to 50 mm (3/16" to 2")
VAY	ROUNDIT® 2000 V0	Self-wrapping sleeve with high mechanical protection; ideal flame resistance with low toxicity and smoke emission	-50°C to +150°C (-58°F to +302°F)	NF 16101 - 16102: I2 F1; DB DIN 5510 § 2 & 54837: S4,SR2, ST2; UNI; ASTM E 662 - ASTM E 162 Raw material UL 94 V0	✓			Material: UL 94 V0 Rated Polyester Color: Black	5 to 50 mm (3/16" to 2")
RAILWAY	Expando® TCP V0	Expandable braid (1:2) with strong mechanical protection; with low toxicity and smoke emission	-50°C to +150°C (-58°F to +302°F)	NF 16101 - 16102: I2 F2; DB DIN 5510 § 2 & 54837: S4,SR2, ST2; UNI; ASTM E 662 - ASTM E 162 Raw material UL 94 V0	✓			Material: UL 94 VO Rated Polyester Colors: Black with gray tracer; Gray with a black tracer	3 to 50 mm (3/16" to 2")
	Self-Amalgamating Tapes	Provide good fluid resistance and are ideal for sealing, connecting and finishing cut ends.	-55°C to +260°C (-67°F to +500°F)	FAR Part 25 § 853 & ABD 031	✓	<b>√</b>		Material: Un-supported or supported with fiberglass silicone tapes Color: Black	19 to 50 mm (3/4" to 2")
	Expando® HR Plus	Highly expandable braid (1:3) with good mechanical protection and outstanding chemical resistance; treated to prevent end-fray	-70°C to +150°C (-94°F to +302°F)	UL 1441 VW-1 FAR Part 25		✓	✓	Material: Halar Color: Black with a white tracer; White with a black tracer	3 to 64 mm (1/8" to 2-1/2")
SERATURE SERATURE	ROUNDIT® PPS	Self-wrapping sleeve with good mechanical protection; ideal for mechanical protection of shielding metal in swamp areas	-60°C to +175°C (-76°F to +347°F)	FAR Part 25	✓	✓		Material: PPS Color: Black	5 to 38 mm (3/16" to 1-1/2")
HIGH TEM	Expando® 686 DM	Expandable braid (1:2) with outstanding mechanical protection; ideal solution for high temperature mechanical performance	-70°C to +200°C (-94°F to +392°F)	UL 1441 VW-1 FAR Part 25	<b>√</b>	<b>√</b>		Material: PEEK & PPS Color: Black, Natural	3 to 64 mm (1/8" to 2-1/2")
SPECIALTY HIGH TEMPERATURE	Expando® HTNS-L/HO	Expandable braid (1:2) with strong mechanical protection; oil and water repellent treated sleeve with the additional benefit of being soft to the cable structure	-60°C to +240°C (-76°F to +464°F)	FAR Part 25	✓	<b>√</b>		Material: Nomex® Color: Camouflage green, ivory	2 to 30 mm (5/64" to 1-3/16")
	ROUNDIT® 2000 NX / NX HT	Self-wrapping sleeve with high mechanical protection; ideal solution for high temperature mechanical performance	-60°C to +260°C (-76°F to +500°F)	FAR Part 25	✓	<b>✓</b>		Material: Nomex® and PPS or PEEK Color: Camouflage green, Orange, Red	5 to 40 mm (3/16" to 1-5/8")

Nomex is a registered trademark of DuPont

<sup>\*</sup> meets highly stringent requirements of aerospace/defense industry



### **Thermal Management**



	Product	Description	Temperature	Type of Heat Protection	Halogen Free	Aerospace Grade*	Construction	Available Sizes
	Industrial FyreJacket® / Thermotubix	Silicone-coated sleeve with good resistance to high temperatures; provides excellent protection against high temperatures, fire, and molten splashes	-54°C to +260°C (-65°F to +500°F)	Convective	✓		Material: Fiberglass and silicone Color: Reddish-brown	8 to 101 mm (5/16" to 4")
	ThermoJacket® R / S	Braided sleeve with excellent resistance to high temperatures; used as a long-term heat protection; extremely expandable (TJ-R) or delivered without anti-fray impregnation (TJ-S)	up to +550°C (up to +1022°F)	Convective	✓	✓	Material: Fiberglass Color: Natural	6 to 102 mm (1/4" to 4")
	ThermoJacket® C	Nextel braided sleeve with outstanding resistance to high temperatures; used as a long-term heat protection	up to +1200°C (up to +2200°F)	Convective	✓		Material: Nextel® 312 Color: Natural	5 to 64 mm (1/4" to 2-1/2")
	GES 40 / 100	Coated braided sleeve with dielectric resistance to 4kV or 10kV provides effective grounding of metal braid; resistant to salt and other harsh environments	-60°C to +220°C (-76°F to +428°F)	Conductive	✓		Material: Silicone rubber and fiberglass Color: Reddish-brown	0.5 to 32 mm (1/32" to 1-1/4")
0	Aerospace FyreJacket® / Thermotubix	Silicone-coated sleeve with outstanding fire protection up to +1100°C; provides excellent protection against high temperatures, fire, and molten splashes	-54°C to +260°C (-65°F to +500°F) 15 min at 1100°C (2012°F)	Conductive	✓	✓	Material: Fiberglass and silicone Color: Reddish-brown, black, aluminum	8 to 101 mm (5/16" to 4")
Sar	FyreTape® / Thermobande	Silicone-coated tape with good fire protection; easy to install on big pipes; may be used to replace or compliment Thermotubix	-54°C to +260°C (-65°F to +500°F)	Conductive	✓		Material: Fiberglass and silicone Color: Reddish- brown, aluminum	25 to 152 mm (1" to 6")
9	ROUNDIT® Therm A	Self-wrappable sleeve with 3 layers for high fire protection up to +1100°C; excellent cut-through and abrasion resistance	-60°C to +260°C (-76°F to +500°C) 5 min at +1100°C (2012°F)	Flame-resistant	✓	✓	Material: Nomex® and PEEK with panox and silica Color: Olive green	10 to 32 mm (3/8" to 1-1/4")
	ROUNDIT® Therm B	Self-wrappable sleeve with 2 layers with outstanding fire protection; excellent cut-through and abrasion resistance	-60°C to +260°C (-76°F to +500°C) 15 min at 1100°C (2012°F)	Fire-proof	✓	✓	Material: Nomex® and PEEK with fiberglass and silicone Color: Olive green	10 to 32 mm (3/8" to 1-1/4")
	Thermocord®	Flexible rope with good resistance to high temperatures; provides complete isolation of air exchange	up to +550°C (up to +1022°F)	Conductive			Material: Fiberglass Color: White, Gray (adhesive version)	5 to 40 mm (1/4" to 1-5/8")
	PyroSeal	Stainless steel knitted tube with good resistance to high temperatures; provide complete isolation to oven doors	up to +550°C (up to +1022°F)	Conductive			Material: Stainless steel and fiberglass Color: Gray or black	Customized part
	TST / TSX	Silica braided sleeve with outstanding resistance to high temperatures; used for long-term heat protection in extreme environments	-60°C to +1100°C (-76°F to +2012°F)	Conductive	✓	✓	Material: Silica Color: Natural	0.5 to 35 mm (1/32" to 1-13/32")
	Therm-L-Wrap™	Self-wrappable sleeve with an adhesive closure offers excellent radiant heat protection; provides component protection in high temperature areas	-40°C to +200°C (-40°F to +392°F)	Radiant	✓		Material: Aluminum with fiberglass Color: Aluminum	10 to 25 mm (3/8" to 1")
	ReflectSleeve® / Therm-L-Lite®	Tubular sleeve with excellent radiant heat protection; provides component protection in high temperature areas	-50°C to +220°C (-58°F to +428°F)	Radiant	✓		Material: Aluminum with fiberglass Color: Aluminum	10 to 51 mm (3/8" to 2")
	Convoshield®	Corrugated sleeve with good resistance to high temperatures; provides component protection in high temperature areas	-40°C to +175°C (-40°F to +347°F)	Radiant	✓		Material: Nylon Color: Aluminum	6 to 25 mm (1/4" to 1")
<b>%</b>	ThermoJacket® E	Knitted sleeve with excellent resistance to high temperatures; good thermal containment performance	up to +650°C (up to +1202°F)	Convective	✓		Material: Basalt Color: Brown	51 to 140 mm (2" to 5-1/2")
	ThermoJacket® D	Knitted sleeve with excellent resistance to high temperatures; outstanding thermal containment performance	up to +1000°C (up to +1832°F)	Convective	✓		Material: Silica and fiberglass Color: White	19 to 127 mm (3/4" to 5")

Nomex is a registered trademark of DuPont • Nextel is a registered trademark of 3M Corporation.
• meets highly stringent requirements of aerospace/defense industry



### **Electromagnetic Shielding**



		Product	Description	Temperature	Flammability	Halogen Free	Aerospace Grade*	Metal	Construction	Available Sizes
HEAVY DUTY / INDUSTRIAL	RC	OUNDIT® 2000 Cu EMI	Tough self-wrapping solution; flexible and easy to install offering a combination of EMI shielding and abrasion resistance for long term protection	-60°C to +150°C (-76°F to +257°F)		<b>√</b>		Tin-plated copper	Material: Tin-plated copper and polyester mono- and multi-filaments Color: Black	5 to 38 mm (3/16* to 1-1/2*)
RAILWAY	RC	OUNDIT® V0 EMI	Self-wrapping metal solution; flexible and easy to install providing high performance EMI shielding	-65°C to +200°C (-85°F to +392°F)	NF 16101 16102 I3-F0 DINS510 5437 54, SR2, ST2 Raw Material UL94 V0	✓		Nickel-plated copper C4	Material: Nickel-plated copper C4 according to ASTM B-355 combined with PPS monofilament Color: Light gray	8 to 45 mm (5/16" to 1-3/4")
TY HIGH RATURE	RC	OUNDIT® EMI FMJ	Self-wrapping metal solution with 95% optical coverage; flexible and easy to install providing very high performance EMI shielding	-65°C to +200°C (-85°F to +392°F)	NF 16101 16102 I3-F0 DIN5510 5437 S4, SR2, ST2 Raw Material UL94 V0 FAR Part 25 § 853 & ABD 0031	✓	<b>√</b>	Nickel-plated copper C4	Material: Nickel-plated copper C4 according to ASTM B-355 combined with PPS monofilament Color: Light gray	8 to 38 mm (5/16" to 1-1/2")
SPECIALTY HIG TEMPERATURI	RC RC	OUNDIT® 2000 NX EMI	Self-wrapping multi-layer solution providing mechanical protection and very high performance EMI shielding; can also be delivered with an inner layer of PTFE for protection of the cables against abrasion from the metal layer	-55°C to +200°C (-65°F to + 392°F)	FAR 25 § 853 A & B	✓	✓	Nickel-plated copper C27	Material: Nickel-plated copper C27 according to ASTM B-355 combined with Nomex® multifiliaments and PPS monofilaments. Also available with inner layer of PTFE tape.  Color: Olive green	6 to 38 mm (1/4" to 1-1/2")

### **EMI Highlights**

Electromagnetic Interference (EMI) can cause adverse effects on electronic components and equipment leading to operational malfunctions. Proper shielding and grounding of electromagnetic sensitive components can effectively eliminate this occurrence. Our EMI shielding products, constructed from materials including nickel-plated copper, tin-plated copper and stainless steel, Nomex®, PPS and polyester, provide excellent shielding properties with the added benefit of abrasion or thermal protection.

### Services Provided to the Customer

**Mock-up Service:** We offer a unique service that provides you with the most appropriate solution in terms of shielding efficiency and installation. Using your harness, our engineers analyze your shielding needs. We define the specific products, accessories and related grounding solutions for your application as well as provide an installation guide to ensure the best solution to your EMI challenges.

### **Customized Test Reporting:**

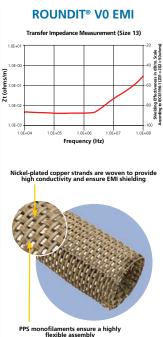
Our state-of-the-art test laboratory is available to evaluate your current

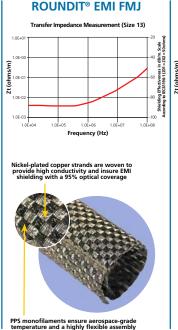
or future wire harness shielding solutions. A detailed test report can be generated for your different harnessing and protection scenarios, allowing you to benchmark various application concepts. Working together, we can help fine-tune the appropriate solution to meet your

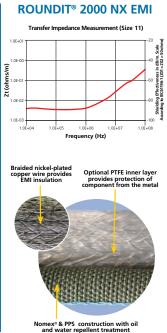
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# Transfer Impedance Measurement (Size 13) 1.05-07 1.05-0







### **Custom Shielding**



Product Family	Description	Temperature	Type of Shielding	Construction	Available Sizes
QuietShield <sup>®</sup>	Noise suppression materials providing strong acoustical insulation (under development)		Acoustic	Various material blends and configurations available including eco-friendly version	Roll goods and die-cut pieces
ReflectShield® / Therm-L-Gard™	Custom multi-layer composite heat shielding system designed to provide excellent protection for components that must survive in high temperature areas, may include secondary processes and attachments to best meet application	Survives extended exposure to 538°C (1000°F) at 25 mm above radiant heat source; actual heat resistant properties are application specific		Application specific; may include fiberglass fabric, aluminum foil laminate, pressure sensitive adhesive, non-woven materials	Custom parts may be slit to width and length, or die cut into complex geometric shapes

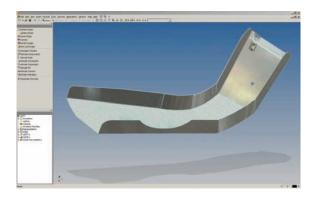
### **Shielding Highlights**

The shielding family of products offer a custom solution to challenging thermal and NVH (Noise, Vibration and Harshness) environments. Engineers and product development specialists work with you to address your specific application needs. This innovative approach to thermal and acoustic management address the following needs:

**Right material selection:** A variety of material combinations may be considered to provide the right level of shielding efficiencies. For ReflectShield, this may include woven fiberglass substrate, non-woven material or closed-cell foam with an aluminum foil laminate. Such material combinations ensure outstanding ability to dissipate surface temperature. For QuietShield, a full range of material blends and configurations delivers the right acoustic solution along with potential weight savings to meet your critical needs.

**Innovative design:** Our design capabilities allow us to accommodate a variety of geometric shapes that are needed to provide appropriate shielding. Use of pressure sensitive adhesives may be used for the product to be adhered directly to component. Alternatively, mechanical attachment can also be integrated into the design and may include snaps and clips.

**Cost-effective:** Our unique approach to part design allows for a cost-effective solution to your shielding needs. For example, our ReflectShield approach allows for the reduction of tooling costs and lead times compared to traditional rigid heat shields.



### **Your Partner in Development**

Thanks to our expertise in CATIA® and SolidWorks®, our trained engineers, can directly open and integrate your drawings into our design system. We can provide detailed simulation of the integrated protection component, thus helping you visualize real-life installation. This collaborative approach saves you time and resources.

### **ReflectShield Applications**

Applications include engine components, wire harnesses and fuel lines, in a variety of market segments including marine, rail, heavy-duty and industrial transportation.









### **QuietShield Applications**

This product helps eliminate noise in such areas as engine covers, wheel arches, headliners, door panels and trunk liners.









### **Advanced Technology Expertise**

The ITS Group serves as a valuable resource and partner to its customers by providing advanced technology expertise to meet customer needs for today and tomorrow. Our engineering competencies include:



- Chemical engineering: coating formulation and compounding
- Materials engineering: Flame retardancy, water and fluid resistance, electromagnetic compatibility, conductive materials, mechanical performance (abrasion resistance, cut-through resistance, friction-reduction) and adhesive technology
- Mechanical engineering: development of both equipment and processes for coating, forming, embossing, lamination and converting
- **Textile engineering:** fibers, yarns, knitting, braiding, weaving, non-woven

In addition, we offer a broad range of advanced engineering tools designed to further assist our product development efforts, including:

- Computational Fluid Dynamics (CFD)
- Computer Aided Design (CAD)
- Failure mode and effects analysis (DFMEA and PFMEA)
- Finite element analysis (FEA)
- Geometric Dimensioning and Tolerancing (GD&T)
- Rapid prototyping
- Thermal, EMI and Acoustic simulation





We continue to invest in new technology exploration to ensure that we remain on the cutting edge of solution development.

### **Your Innovative Technology Solution**

Let the ITS group of Federal-Mogul Systems Protection help solve your component protection issues. Contact us today to learn more about our industry specific solutions.

www.federalmogul.com/sp





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