



# PRODUCT CATALOG

[GoSuburban.com](http://GoSuburban.com)





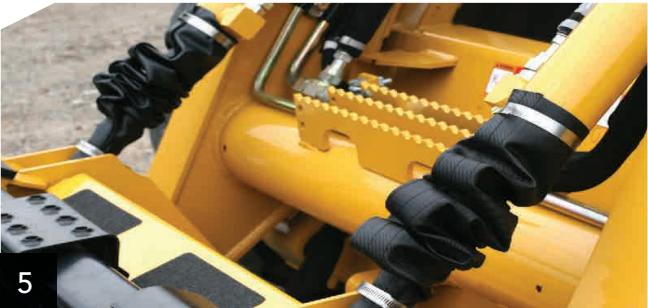
# PYTHON

## PROTECTIVE SLEEVE + COVERS

A division of Suburban, PYTHON provides today's leading manufacturers with revolutionary products designed to protect both operators and equipment alike. Our fluid power expertise, proprietary technology, and laser-focused effort on supporting the customer, enable us to bring the most innovative, reliable, and user-friendly products to market.

This catalog was designed in effort to provide an additional tool for choosing appropriate products based on your individual application requirements. In addition to our friendly customer service staff available to assist you, we've created a magnitude of digital resources.

Our website now works on a responsive template and is easily accessible on any hand-held device. Find material specifications and up-to-date information on new product releases. Visit our Youtube channel to view 40+ training and demonstration videos.



## PROTECTION THAT PERFORMS



### SUBURBAN MANUFACTURING GROUP

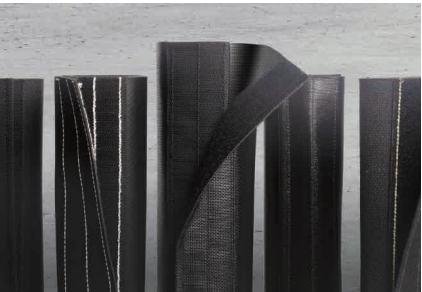
At Suburban, our mission is to build value for our customers by producing quality, innovative, application-based products. As an engineer-driven organization, we partner with customers to design unique and specific fluid power solutions.

In addition to Python Protective Sleeve + Covers, Suburban offers a complete line of standard products sold under the Tsunami Compressed Air Solutions™, LubeMinder® brands.

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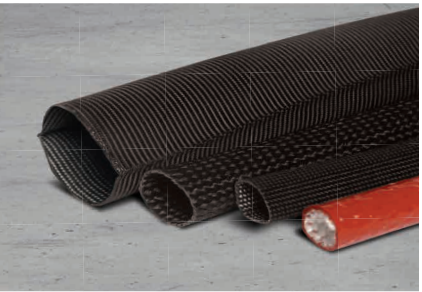
SOCIAL [f](#) [in](#) [v](#) [G+](#)

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The Most Robust Option for Hose Protection

Known as the workhorse of the Sidewinder family, 1050 Ballistic Nylon is the best all around solution for abrasion & bundling needs. The Ballistic Nylon substrate features a urethane coating designed to shed moisture & industrial chemicals. With excellent UV protection & a temperature rating of -60°F to 250°F, 1050B is the choice for most hoses, cables, & wires susceptible to daily wear & tear.

1050 Ballistic features Military-Spec Extreme Hook & Loop closure, allowing the sleeve to be applied post hose assembly. The proprietary fastener has proven to reduce costs associated to installation or maintenance by up to 70%!

Typical Applications: Corn Planters, Rail Track Equipment, Semi Truck Trailers, Industrial Conveyors, Backhoes, Loaders, Combines & Balers



1050 is used to bundle & protect hoses exposed to ultraviolet (UV) rays & abrasion.



In applications with tight bend radius' 1050 remains tough & flexible.



1050 is trusted by the US military to keep critical equipment functioning around the clock.

PART #	MAX O.D.	CIRCUM
SL-1.0	1"	3.14
SL-1.25	1.25"	3.93
SL-1.5	1.5"	4.71
SL-1.75	1.75"	5.50
SL-2.0	2"	6.28
SL-2.25	2.25"	7.07
SL-2.5	2.5"	7.85
SL-2.75	2.75"	8.64
SL-3.0	3"	9.42
SL-3.25	3.25"	10.21
SL-3.5	3.5"	10.99
SL-4.0	4"	12.56
SL-4.5	4.5"	14.13"
SL-5.0	5"	15.70"
SL-6.0	6"	18.84"
SL-7.0	7"	21.98"
SL-8.0	8"	25.12"
SL-9.0	9"	28.26"
SL-10.0	10"	31.40"
SL-11.0	11"	34.54"
SL-12.0	12"	37.68"
SL-13.0	13"	40.82"
SL-14.0	14"	43.96"
SL-15.0	15"	47.10"
SL-16.0	16"	50.24"

Sold in 50 & 150' increments

PART #	MAX O.D.	CIRCUM
SL-1.0-5601	1"	3.14
SL-1.25-5601	1.25"	3.93
SL-1.5-5601	1.5"	4.71
SL-1.75-5601	1.75"	5.50
SL-2.0-5601	2"	6.28
SL-2.25-5601	2.25"	7.07
SL-2.5-5601	2.5"	7.85
SL-2.75-5601	2.75"	8.64
SL-3.0-5601	3"	9.42
SL-3.25-5601	3.25"	10.21
SL-3.5-5601	3.5"	10.99
SL-4.0-5601	4"	12.56
SL-4.5-5601	4.5"	14.13"
SL-5.0-5601	5"	15.70"
SL-6.0-5601	6"	18.84"
SL-7.0-5601	7"	21.98"
SL-8.0-5601	8"	25.12"
SL-9.0-5601	9"	28.26"
SL-10.0-5601	10"	31.40"
SL-11.0-5601	11"	34.54"
SL-12.0-5601	12"	37.68"
SL-13.0-5601	13"	40.82"
SL-14.0-5601	14"	43.96"
SL-15.0-5601	15"	47.10"
SL-16.0-5601	16"	50.24"

Sold in 50 & 150' increments

Colors Available: ● Black ● Light Gray

Lightweight, Flexible, & Non Moisture Wicking

5601 has gained great popularity due to its ability to remain extremely flexible in environments between -60° to 250°F. The double urethane-coated sleeve is constructed on a 1000 denier Cordura substrate. A heavy urethane coating creates a super low coefficient to wear & prevents any moisture from penetrating the sleeve. 5601 is the ideal option for wet, abrasive, & articulating applications.

5601 features Military-Spec Extreme Hook & Loop closure, allowing the sleeve to be applied post hose assembly. The proprietary fastener has proven to reduce costs associated to installation or maintenance by up to 70%!

Typical Applications: Agricultural Sprayers, Robotics, Asphalt Machines, Cement Trucks, Garbage Trucks, Air Conditioning & Brewery Lines (Radiant-lined version)



5601 is often used to protect sprayer hoses & lines in wet, abrasive applications.



Radiant-lined 5601 helps maintain chemical viscosity in the spray foam industry.

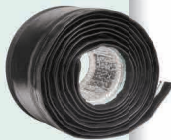
1050



1050B: Radiant Liner

Radiant-liner employs advanced thermal technology for use in applications where maintaining temperature is vital. Radiant lined products have proven to increase thermal retention by up to 25°F

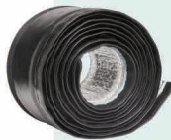
Add "RL" to the end of the part number to order lined version. Example: SL-1.0-1050B-RL



5601: Radiant Liner

Radiant-liner employs advanced thermal technology for use in applications where maintaining temperature is vital. Radiant lined products have proven to increase thermal retention by up to 25°F

Add "RL" to the end of the part number to order lined version. Example: SL-4.0-5601-RL



5601



PROPERTIES

ABRASION RESISTANCE	NON WICKING ABILITY
PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
UV PROTECTION	TEMPERATURE RATING

- Best all around choice for bundling, abrasion, & operator protection
- Protects hoses in abrasive environments: meets ISO 6945 specs
- Cut to length; easily installed or retrofitted
- Excellent UV protection; exceeds EN13758-1
- Resistant to punctures & tearing

PROPERTIES

ABRASION RESISTANCE	NON WICKING ABILITY
PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
UV PROTECTION	TEMPERATURE RATING

- Remains extremely flexible in high & low temperature applications
- Resists damage from petroleum, salt water, gasoline & mild chemicals
- Non breathable cover can increase thermal retention by up to 150% in applications requiring consistent viscosity
- Heavy urethane coating protects hoses in abrasive environments & allows the sleeve to move freely over ridged surfaces
- Cut to length; easily installed or retrofitted



Economical Choice for Fast, Easy Bundling

Black Poly was designed specifically as an economical solution for hose, cable, & wire management. The 600 denier substrate is coated with a light layer of PVC, enhancing the sleeves ability to resist damage caused from water or sunlight. The economical design of Black Poly makes it a quick & easy solution in applications requiring bundling protection, light abrasion resistance, or simply a clean, professional look.

Black Poly features Military-Spec Extreme Hook & Loop closure, allowing the sleeve to be applied post hose assembly. The proprietary fastener has proven to reduce costs associated to installation or maintenance by up to 70%!

**Typical Applications:** Static Hoses on Mobile Equipment, Power Cord Bundles, Computer Cables, CNC Hose Bundles & Pneumatic Lines



Black Poly provides a clean, professional look to any application.



In light abrasion environments utilize Black Poly to protect & quickly access power cord bundles.



Black Poly is an easy choice in applications with tight hose bends & high UV exposure.

PART #	MAX O.D.	CIRCUM
SL-1.0-JD	1"	3.14
SL-1.25-JD	1.25"	3.93
SL-1.5-JD	1.5"	4.71
SL-1.75-JD	1.75"	5.50
SL-2.0-JD	2"	6.28
SL-2.25-JD	2.25"	7.07
SL-2.5-JD	2.5"	7.85
SL-2.75-JD	2.75"	8.64
SL-3.0-JD	3"	9.42
SL-3.25-JD	3.25"	10.21
SL-3.5-JD	3.5"	10.99
SL-4.0-JD	4"	12.56
SL-4.5-JD	4.5"	14.13"
SL-5.0-JD	5"	15.70"
SL-6.0-JD	6"	18.84"
SL-7.0-JD	7"	21.98"
SL-8.0-JD	8"	25.12"
SL-9.0-JD	9"	28.26"
SL-10.0-JD	10"	31.40"
SL-11.0-JD	11"	34.54"
SL-12.0-JD	12"	37.68"
SL-13.0-JD	13"	40.82"
SL-14.0-JD	14"	43.96"
SL-15.0-JD	15"	47.10"
SL-16.0-JD	16"	50.24"

Sold in 150' increments

PART #	MAX O.D.	CIRCUM
SL-1.0-40HDA	1"	3.14
SL-1.25-40HDA	1.25"	3.93
SL-1.5-40HDA	1.5"	4.71
SL-1.75-40HDA	1.75"	5.50
SL-2.0-40HDA	2"	6.28
SL-2.25-40HDA	2.25"	7.07
SL-2.5-40HDA	2.5"	7.85
SL-2.75-40HDA	2.75"	8.64
SL-3.0-40HDA	3"	9.42
SL-3.25-40HDA	3.25"	10.21
SL-3.5-40HDA	3.5"	10.99
SL-4.0-40HDA	4"	12.56
SL-4.5-40HDA	4.5"	14.13"
SL-5.0-40HDA	5"	15.70"
SL-6.0-40HDA	6"	18.84"
SL-7.0-40HDA	7"	21.98"
SL-8.0-40HDA	8"	25.12"
SL-9.0-40HDA	9"	28.26"
SL-10.0-40HDA	10"	31.40"
SL-11.0-40HDA	11"	34.54"
SL-12.0-40HDA	12"	37.68"
SL-13.0-40HDA	13"	40.82"
SL-14.0-40HDA	14"	43.96"
SL-15.0-40HDA	15"	47.10"
SL-16.0-40HDA	16"	50.24"

Sold in 150' increments

Extreme Abrasion & Chemical Resistance

40 HDA was built for the world's most extreme & abrasive applications. The heavy duty sleeve is constructed on a Military-Spec 1500 denier-woven fabric & coated with a proprietary polymer. This sleeve has nearly twice the mass & six times the abrasion resistance of any other Sidewinder product. Unlike traditional wear products, Sidewinder provides 100% hose coverage for use in the most aggressive environments.

40 HDA features Military-Spec Extreme Hook & Loop closure, allowing the sleeve to be applied post hose assembly. The proprietary fastener has proven to reduce costs associated to installation or maintenance by up to 70%!

**Typical Applications:** Mining, Sub Sea Oil Service, Frac & Mud Pumping Hose, Rotary Drill Hose, Forestry Skidders, Knuckle Boom Loaders, Drill Jettors

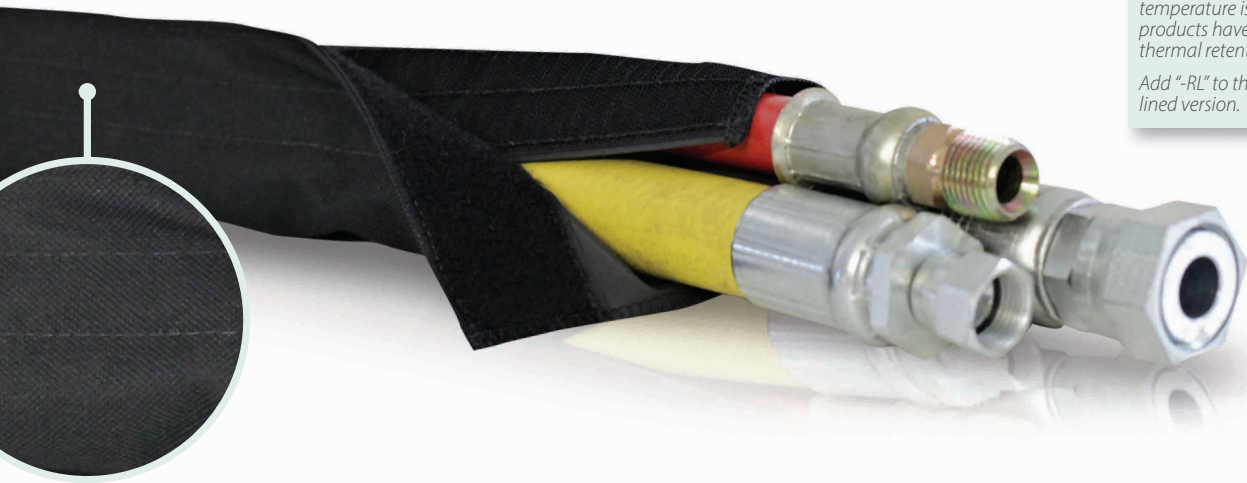


Forestry equipment utilizes 40 HDA where extreme abrasive conditions cause catastrophic hose failure.



40 HDA is approved for use in mining applications. MSHA IC-289

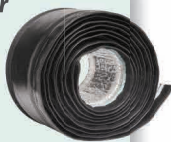
BLACK POLY



Black Poly: Radiant Liner

Radiant-liner employs advanced thermal technology for use in applications where maintaining temperature is vital. Radiant lined products have proven to increase thermal retention by up to 25°F

Add "RL" to the end of the part number to order lined version. Example: SL-2.5-JD-RL



40 HDA



PROPERTIES

ABRASION RESISTANCE	NON WICKING ABILITY
PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
UV PROTECTION	TEMPERATURE RATING

- Economical solution for a variety of bundling requirements
- Excellent UV protection; meets EN13758-1
- Lightweight & flexible
- Provides a clean & professional look to any application
- Cut to length; easily installed or retrofitted

PROPERTIES

ABRASION RESISTANCE	NON WICKING ABILITY
PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
UV PROTECTION	TEMPERATURE RATING

- Meets IEC 62631-3-2:2015 for dielectric & resistive properties
- Ultra rugged; Meets ISO 6945 Specifications, 500,000 + cycles
- Resists petroleum, salt water, gasoline & other chemicals
- MSHA Approved; accepted for use in mining applications
- Excellent UV protection; exceeds EN13758-1
- Easily installed or retrofitted



## Waterproof & Flexible for Protection from Moisture & Sparks

18411 is ideal in applications where articulating hose & cable is exposed to water, sparks & spall. The sleeve offers similar abrasion & flexibility characteristics as 5601 along with an added internal neoprene coating to further protect against moisture. The coating, flexibility & spark resistance make 18411 the best choice in spot welding, automation, & submersible applications.

18411 features Military-Spec Extreme Hook & Loop closure, allowing the sleeve to be applied post hose assembly. The proprietary fastener has proven to reduce costs associated to installation or maintenance by up to 70%!

**Typical Applications:** Robotics, Jig Fixture Welding, Sub Sea Maintenance & Repair, Car Wash Stations, Manure Agitators, Offshore Oil



In sub sea applications, 18411 is unaffected by salts & petro chemicals.



Fast moving robotics choose 18411 to bundle & protect articulating hoses.



18411 is the optimal choice in jig fixture welding where sparks & spall are present.

PART #	MAX O.D.	CIRCUM
SL-1.0-18411	1"	3.14
SL-1.25-18411	1.25"	3.93
SL-1.5-18411	1.5"	4.71
SL-1.75-18411	1.75"	5.50
SL-2.0-18411	2"	6.28
SL-2.25-18411	2.25"	7.07
SL-2.5-18411	2.5"	7.85
SL-2.75-18411	2.75"	8.64
SL-3.0-18411	3"	9.42
SL-3.25-18411	3.25"	10.21
SL-3.5-18411	3.5"	10.99
SL-4.0-18411	4"	12.56
SL-4.5-18411	4.5"	14.13"
SL-5.0-18411	5"	15.70"
SL-6.0-18411	6"	18.84"
SL-7.0-18411	7"	21.98"
SL-8.0-18411	8"	25.12"
SL-9.0-18411	9"	28.26"
SL-10.0-18411	10"	31.40"
SL-11.0-18411	11"	34.54"
SL-12.0-18411	12"	37.68"
SL-13.0-18411	13"	40.82"
SL-14.0-18411	14"	43.96"
SL-15.0-18411	15"	47.10"
SL-16.0-18411	16"	50.24"

Sold in 150' increments

PART #	MAX O.D.	CIRCUM
SL-1.0-WS	1"	3.14
SL-1.25-WS	1.25"	3.93
SL-1.5-WS	1.5"	4.71
SL-1.75-WS	1.75"	5.50
SL-2.0-WS	2"	6.28
SL-2.25-WS	2.25"	7.07
SL-2.5-WS	2.5"	7.85
SL-2.75-WS	2.75"	8.64
SL-3.0-WS	3"	9.42
SL-3.25-WS	3.25"	10.21
SL-3.5-WS	3.5"	10.99
SL-4.0-WS	4"	12.56
SL-4.5-WS	4.5"	14.13"
SL-5.0-WS	5"	15.70"
SL-6.0-WS	6"	18.84"
SL-7.0-WS	7"	21.98"
SL-8.0-WS	8"	25.12"
SL-9.0-WS	9"	28.26"
SL-10.0-WS	10"	31.40"
SL-11.0-WS	11"	34.54"
SL-12.0-WS	12"	37.68"
SL-13.0-WS	13"	40.82"
SL-14.0-WS	14"	43.96"
SL-15.0-WS	15"	47.10"
SL-16.0-WS	16"	50.24"

Sold in 150' increments

## Heavy Duty Spark & Spall Protection

Developed to provide ultimate protection from high spark welding applications, Weld Shield is the ideal solution in static, high temperature environments. This coarse fiberglass fabric is coated with a proprietary FR neoprene preventing molten metal up to 3000°F from damaging critical components.

Weld Shield features Military-Spec Extreme Hook & Loop closure, allowing the sleeve to be applied post hose assembly. The proprietary fastener has proven to reduce costs associated to installation or maintenance by up to 70%!

**Typical Applications:** Robotic Welding, Grinders, Gantry Welders



Weld Shield protects critical components from sparks on Gantry Welders.



Weld Shield protects expensive hoses on large robotic welders.



Grinding operators choose Weld Shield to provide a safe layer between sparks & tool lines.

# 18411



PROPERTIES	ABRASION RESISTANCE	NON WICKING ABILITY
	PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
	CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
	UV PROTECTION	TEMPERATURE RATING

- Unaffected by water, petro chemicals, sea salts, & mild solvents
- Shields against lightweight sparks & spall
- Easy to install - cuts with scissors
- Extremely flexible & abrasion resistant in most environments
- Handles momentary spot heat up to 800°F
- Cut to length; easily installed or retrofitted

# WELD SHIELD



PROPERTIES	ABRASION RESISTANCE	NON WICKING ABILITY
	PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
	CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
	UV PROTECTION	TEMPERATURE RATING

- Working temperature of 400° F; shields against molten metal up to 3000°F
- Protects against grinding & extreme spark environments
- Hook & Loop closure allows for quick, easy access to hoses
- Bundles & protects hoses to promote a safe working area
- Provides a clean & professional look to any application



## Flame & Adhesion Resistant Sleeving

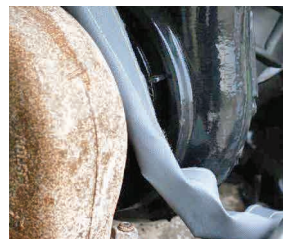
TGS (Teflon Coated Fiberglass) is a high-performance, flexible material that provides protection to componentry in high ambient temperature environments up to 600°F. A PTFE coating protects the core material from embrittlement and serves as a barrier to prevent acids, oils, sealants, and other adhesives from sticking to the sleeve.

TGS features Military-Spec Extreme Hook & Loop closure, allowing the sleeve to be applied post hose assembly. The proprietary fastener has proven to reduce costs associated to installation or maintenance by up to 70%!

Typical Applications: Oil & Gas Processing, Insulation Blanket Shielding, Exhaust Systems, High Temperature Cable & Wiring Systems



TGS is the ideal sleeve to protect hoses from welding & grinding spall in shipbuilding applications.



Choose TGS to bundle & protect critical cables & wire near engine turbo compartments.



TGS covers & protects hoses from exhaust pipe on mining truck.

TGS



PROPERTIES		ABRASION RESISTANCE		NON WICKING ABILITY
		PUNCTURE RESISTANCE		SPALL/SPARK PROTECTION
		CHEMICAL RESISTANCE		WEIGHT / FLEXIBILITY
		UV PROTECTION		TEMPERATURE RATING

- Surface release for paints, coatings, asphalts & tar
- Handles continuous heat up to 600°F; core fabric up to 1000°F
- Resists infrared, micro-wave & radio frequencies
- Protects hoses in abrasive environments: meets ISO 6945 specs
- Excellent UV protection; exceeds EN13758-1
- Cut to length; easily installed or retrofitted

PART #	MAX O.D.	CIRCUM
SL-1.0-TGS	1"	3.14
SL-1.25-TGS	1.25"	3.93
SL-1.5-TGS	1.5"	4.71
SL-1.75-TGS	1.75"	5.50
SL-2.0-TGS	2"	6.28
SL-2.25-TGS	2.25"	7.07
SL-2.5-TGS	2.5"	7.85
SL-2.75-TGS	2.75"	8.64
SL-3.0-TGS	3"	9.42
SL-3.25-TGS	3.25"	10.21
SL-3.5-TGS	3.5"	10.99
SL-4.0-TGS	4"	12.56
SL-4.5-TGS	4.5"	14.13
SL-5.0-TGS	5"	15.70
SL-6.0-TGS	6"	18.84
SL-7.0-TGS	7"	21.98
SL-8.0-TGS	8"	25.12
SL-9.0-TGS	9"	28.26
SL-10.0-TGS	10"	31.40
SL-11.0-TGS	11"	34.54
SL-12.0-TGS	12"	37.68
SL-13.0-TGS	13"	40.82
SL-14.0-TGS	14"	43.96
SL-15.0-TGS	15"	47.10
SL-16.0-TGS	16"	50.24

Sold in 150' increments

## Black Poly: Radiant Lined

Radiant Lined Black Poly provides an economical way to bundle and insulated plumbing components that see little-to-no wear. A light PVC coating helps prevent further damage caused by high UV.

Typical Applications: Vac Trucks, Control Valves

PROPERTIES		ABRASION RESISTANCE
		UV PROTECTION
		WEIGHT / FLEXIBILITY
		THERMAL RETENTION

PART #	MAX O.D.	CIRCUM
RL-1.5-600P	1.5"	4.71
RL-2.0-600P	2"	6.28
RL-2.5-600P	2.5"	7.85
RL-3.0-600P	3"	9.42
RL-3.5-600P	3.5"	10.99
RL-4.5-600P	4.5"	14.13
RL-5.5-600P	5.5"	17.27
RL-6.5-600P	6.5"	20.14
RL-7.5-600P	7.5"	23.55

Sold in 150' increments

For more information on Black Poly, see page 6.

## 1050: Radiant Lined

Radiant Lined 1050 is a great all around choice in temperature-reliant environments where mild abrasion is present.

Typical Applications: Diesel Exhaust Systems, Wash Down Units

PROPERTIES		ABRASION RESISTANCE
		UV PROTECTION
		WEIGHT / FLEXIBILITY
		THERMAL RETENTION

PART #	MAX O.D.	CIRCUM
RL-1.5-1050	1.5"	4.71
RL-2.0-1050	2"	6.28
RL-2.5-1050	2.5"	7.85
RL-3.0-1050	3"	9.42
RL-3.5-1050	3.5"	10.99
RL-4.5-1050	4.5"	14.13
RL-5.5-1050	5.5"	17.27
RL-6.5-1050	6.5"	20.14
RL-7.5-1050	7.5"	23.55

Sold in 50' & 150' increments

For more information on 1050, see page 4.

## 5601: Radiant Lined

Radiant Lined 5601 combines the best of both abrasion resistance and thermal retention technologies. A heavy urethane coating prevents moisture/air penetration and protects in abrasive applications.

Typical Applications: Spray Polyurethane Foam (SPF), Concrete Pumping

PROPERTIES		ABRASION RESISTANCE
		NON WICKING ABILITY
		WEIGHT / FLEXIBILITY
		THERMAL RETENTION

PART #	MAX O.D.	CIRCUM
RL-1.5-5601	1.5"	4.71
RL-2.0-5601	2"	6.28
RL-2.5-5601	2.5"	7.85
RL-3.0-5601	3"	9.42
RL-3.5-5601	3.5"	10.99
RL-4.5-5601	4.5"	14.13
RL-5.5-5601	5.5"	17.27
RL-6.5-5601	6.5"	20.14
RL-7.5-5601	7.5"	23.55

Sold in 50' & 150' increments

Colors Available: ● Black ● Light Gray

For more information on 5601, see page 5.



Radiant Lined Black Poly is used to insulate mud pumps.



Use Radiant Lined Black Poly to insulate critical lines on Vac trucks.



Diesel Exhaust Fluid (DEF) tanks are insulated with Radiant Lined 1050.



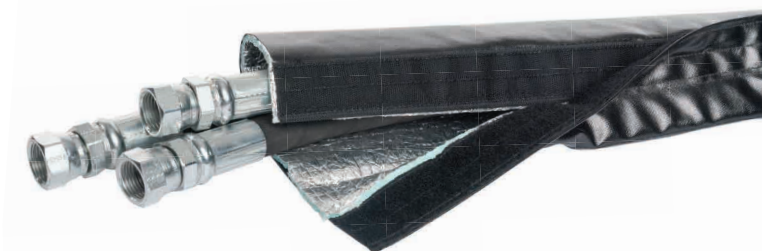
Radiant Lined 1050 is tailored to insulate & protect refuse truck lines.



Radiant Lined 5601 is optimal in SPF applications for protecting hoses & maintaining viscosity.



Contractors in hot & cold climates use radiant 5601 to increase workability during concrete pours.



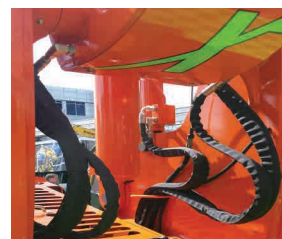


## High Pressure Pin Hole & Hose Burst Protection

Hydraulic hose failures are a serious hazard to both equipment & operators. Unlike traditional wear sleeve, Diamondback is designed to protect from high pressure pin hole leaks & hose bursts. The tight smooth surface also allows the sleeve to be used in applications where abrasion causes damage to single hose lines.

Diamondback is constructed on a proprietary fiber that is needle woven & heat treated to shrink the sleeve approximately 8% creating an extremely tight weave. The low coefficient to wear makes the tubular product half as bulky as standard Cordura & half of the effort to install.

**Typical Applications:** Aerial Lifts, Mowers, Cranes, Fork Lifts, Agriculture Equipment, Rock Drills, Hydraulic Hand Tools, Corn Planters



Diamondback Sleeve is the choice to protect single hydraulic lines from high contact abrasion.



Marine environments experience high UV & protect operators from pin hole leaks with Diamondback.



New EU safety regulations now require hoses within 1 meter of an operator to be covered with sleeve.

PART #	FLAT WIDTH	MAX I.D.
TEXS17	1.18"	0.67"
TEXS20	1.34"	0.79"
TEXS23	1.54"	0.91"
TEXS25	1.65"	0.98"
TEXS27	1.77"	1.06"
TEXS31	2.05"	1.22"
TEXS36	2.24"	1.42"
TEXS40	2.6"	1.57"
TEXS44	2.83"	1.73"
TEXS47	3.03"	1.85"
TEXS55	3.5"	2.17"
TEXS60	3.82"	2.36"
TEXS66	4.18"	2.62"
TEXS73	4.65"	2.87"
TEXS80	5.02"	3.14"
TEXS93	5.87"	3.66"
TEXS100	6.3"	3.94"
TEXS112	7.05"	4.41"
TEXS127	7.75"	4.94"
TEXS146	9.045"	5.755"

Standard lengths sold in 300' increments



Tubular Sleeve Dispenser: P/N 21999-0295

## DIAMONDBACK



PROPERTIES	ABRASION RESISTANCE	NON WICKING ABILITY
	PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
	CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
	UV PROTECTION	TEMPERATURE RATING

- Cut to length; 50% less bulky than Cordura
- Pin hole protection tested to 4,000 PSI, burst tested to 10,000 PSI
- Meets operator specification EN982 norm 833 EN414
- MSHA approved #IC-234/0 & IC-2340/01
- Meets abrasion standard ISO 6945; conductivity standard ISO 8031
- Meets ASTM D6770 for abrasion resistance
- Densely twisted yarn offers excellent UV & abrasion protection
- Ultra tight construction reduces oil spillage from pin hole leaks

PART #	HOSE SIZE	MAX I.D.
FS-004	-4	0.25"
FS-006	-6	0.375"
FS-008	-8	0.5"
FS-010	-10	0.625"
FS-012	-12	0.75"
FS-014	-14	0.875"
FS-016	-16	1"
FS-018	-18	1.13
FS-020	-20	1.25"
FS-022	-22	1.375"
FS-024	-24	1.5"
FS-026	-26	1.625"
FS-028	-28	1.75"
FS-032	-32	2"
FS-036	-36	2.25"
FS-040	-40	2.5"
FS-044	-44	2.75"
FS-048	-48	3"
FS-052	-52	3.25"
FS-056	-56	3.5"
FS-060	-60	3.75"
FS-064	-64	4"
FS-072	-72	4.5"
FS-080	-80	5"
FS-088	-88	5.5"
FS-096	-96	6"

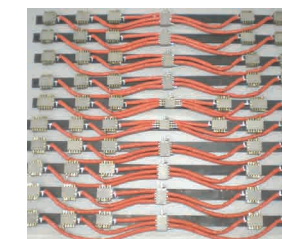
Standard lengths sold in 100' increments

## Silicone-coated High Temperature Fiberglass

Fire Sleeve's bulk fiberglass base and iron-oxide silicon coating make it the optimal single line solution where molten metal splash, radiant heat, chemicals & abrasion are present. The tubular style sleeve is designed to withstand continuous heat exposure up to 500°F and intermittent heat of up to 3000°F.

In addition to protecting hoses, cables, and pipes, Fire Sleeve can protect people from incurring scorching burn injuries. The silicon coating allows the sleeve to remain extremely flexible & moisture resistant in tight radius & outdoor environments.

**Typical Applications:** Performance Automotive, Steel Work, Oil Rigs, Exhaust Systems, High Temperature Cable & Wiring Systems



Grease lines on locomotive track grinding machines are protected from dust & rail sparks.



Fire Sleeve is the optimal single line solution where flame & molten metal splash are present.



Fire Sleeve is commonly used in performance racing to protect wires from extreme engine temps.

## FIRE SLEEVE



PROPERTIES	ABRASION RESISTANCE	NON WICKING ABILITY
	PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
	CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
	UV PROTECTION	TEMPERATURE RATING

- Unaffected by hydraulic fluids, lubricants, chemicals, & oils
- Withstands exposure to molten steel, aluminum, & glass
- Designed to protect against occasional flame
- Continuous exposure up to 500°F, intermittent up to 3000°F
- Insulates against energy or temperature loss

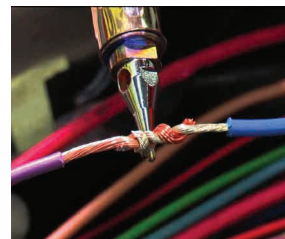


### Standard Duty Acrylic-Coated Braided Fiberglass

INSULTF is a braided fiberglass sleeving that has been heat treated and impregnated with an acrylic binder to reduce fraying and dusting, and improve usability and performance. INSULTF was engineered for applications where temperatures as high as 1200°F may be encountered.

INSULTF may also be used as insulation and protection for small heaters and resistors that operate at high temperatures, and to insulate over soldered connections when exposure to solder melt temperature is possible.

**Typical Applications:** Mowing Equipment, Electronics, Engine Wiring, Control Panels on Off Highway Equipment



Protect soldered wires from harsh, high heat environments.



Shield critical wiring from heat & debris.



The tubular product offers an attractive & professional finish.

PART #	NOMINAL SIZE	MINIMUM LENGTH
INSULTF-04	1/4"	500'
INSULTF-06	3/8"	200'
INSULTF-08	1/2"	200'
INSULTF-10	5/8"	200'
INSULTF-12	3/4"	200'

Standard lengths sold in 100' increments



Use Standard Duty Fiberglass to protect important electrical componentry from heat or abrasion.

PART #	NOMINAL SIZE	MINIMUM LENGTH
INSULTHM-04	1/4"	200'
INSULTHM-06	3/8"	200'
INSULTHM-08	1/2"	200'
INSULTHM-10	5/8"	200'
INSULTHM-12	3/4"	200'
INSULTHM-14	7/8"	200'
INSULTHM-16	1"	100'

Standard lengths sold in 100' increments



Choose Heavy Duty Fiberglass in applications where high temperatures or flame create risk for personnel or equipment.

### Heavy Duty Acrylic-Coated Braided Fiberglass

INSULTHM sleeve is an extremely high temperature resistant sleeve which is commonly used as thermal protection for cables, wires, and hoses that are subject to continuous and extreme high temperature environments such as engine manifolds and exhaust systems.

INSULTHM is braided from fiberglass yarns and coated with high temperature resins. INSULTHM is extremely tough and durable, maintaining its tight structure under extreme vibration, abrasion, mechanical stress and temperature variations. INSULTHM installs easily over a variety of applications to either deflect or retain heat in environments up to 1200°F.

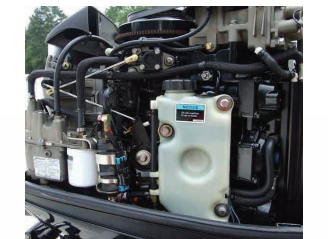
**Typical Applications:** Locomotive Hoses, Drill Rigs, Race Cars



Heavy Duty Fiberglass protects wiring in high performance automotive engines.



Give a clean, professional look to critical components with Braided Fiberglass Sleeving.



Outboard marine engines shield electrical wiring from high heat engine exhaust.

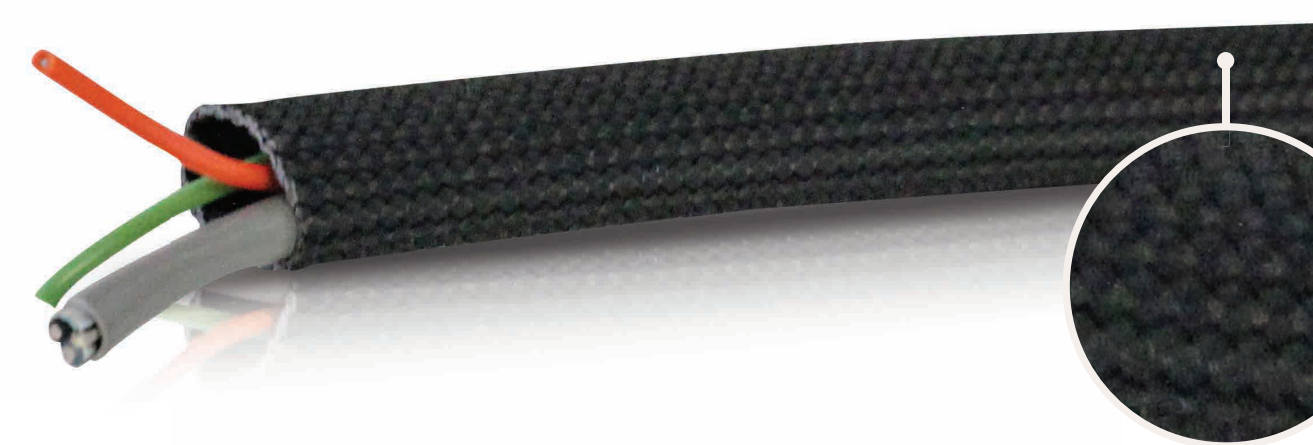
## STANDARD DUTY BRAIDED FIBERGLASS



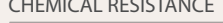








PROPERTIES		ABRASION RESISTANCE		NON WICKING ABILITY
		PUNCTURE RESISTANCE		SPALL/SPARK PROTECTION
		CHEMICAL RESISTANCE		WEIGHT / FLEXIBILITY
		UV PROTECTION		TEMPERATURE RATING

- Engineered for high temperature, low voltage applications
- Continuous working temperature up to 1200°F / 2048°F Melt
- UL recognized: VW-1
- Easy to install, cuts with standard scissors
- Resists most organic chemicals
- Excellent low temperature flexibility

## HEAVY DUTY BRAIDED FIBERGLASS



PROPERTIES		ABRASION RESISTANCE	
		PUNCTURE RESISTANCE	
		CHEMICAL RESISTANCE	
		UV PROTECTION	
		NON WICKING ABILITY	
		SPALL/SPARK PROTECTION	
		WEIGHT / FLEXIBILITY	
		TEMPERATURE RATING	

- Resin coated, heavy weight fiberglass
- Continuous working temperature up to 1200°F / 2048°F Melt
- Heavy duty fiberglass won't burn, melt, or become brittle
- Easy to install, cuts with standard scissors
- Resists gasoline and engine chemicals
- High resistance to abrasion



Python Cinch Strap® Standard & Heavy

Python Cinch Straps are designed to be the most robust option in bundle & securing applications. All straps feature Military-Spec Python Hook & Loop® closure to insure the strap will not open up without significant peel effort. The nylon backing combined with ultrasonic welded joints make Python the fastest & most dependable option for managing a variety of complex power applications.

- Standard Duty: Nylon backing w/ Delrin / Polymide buckle
- Heavy Duty: Double-backed Nylon w/ Nickel-plated steel buckle

Typical Applications: Corn Planters, Sprayers, Excavators, Tractors, Bull Dozers, Industrial Conveyors, Fork Lifts



Python Straps provide excellent protection from abrasion & UV rays.



Gain quick & easy access for maintenance or repair with Python Cinch Straps.



Python Straps allow natural hose expansion & contraction preventing damage caused by nylon ties.

STANDARD DUTY CINCH STRAP	
PART #	MAX CIRCUMFERENCE
CS404	4"
CS406	6"
CS408	8"
CS410	10"
CS412	12"
CS416	16"
CS420	20"
CS424	24"
CS426	26"
CS430	30"
CS436	36"
CS440	40"

Standard duty straps sold in packs of 10

HEAVY DUTY CINCH STRAP	
PART #	MAX CIRCUMFERENCE
CS404H	4"
CS406H	6"
CS408H	8"
CS410H	10"
CS412H	12"
CS416H	16"
CS420H	20"
CS424H	24"
CS426H	26"
CS430H	30"
CS436H	36"
CS440H	40"

Heavy duty straps sold in packs of 5



Non-evasive low profile design eliminates injuries & prevents potential worker compensation claims.

STANDARD DUTY HANGING STRAP	
PART #	MAX CIRCUMFERENCE
HS404	4"
HS406	6"
HS408	8"
HS410	10"
HS412	12"
HS416	16"
HS420	20"
HS424	24"
HS426	26"
HS430	30"
HS436	36"
HS440	40"

Standard duty straps sold in packs of 10

HEAVY DUTY HANGING STRAP	
PART #	MAX CIRCUMFERENCE
HS404H	4"
HS406H	6"
HS408H	8"
HS410H	10"
HS412H	12"
HS416H	16"
HS420H	20"
HS424H	24"
HS426H	26"
HS430H	30"
HS436H	36"
HS440H	40"

Heavy duty straps sold in packs of 5



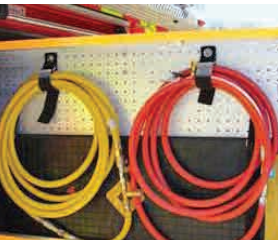
Traditional fixed hardware can cause catastrophic damage to hoses. Python Straps allow natural hose expansion & contraction.

Python Hanging Strap Standard & Heavy

The next generation of routing tools, Python Hanging Straps are used in place of traditional tube clamps, loop clamps & other discretionary fasteners. Grommets support hose bundles during assembly & become are to secure hoses in the desired location. Hanging Straps feature standard industrial-grade Hook & Loop technology allowing fast & easy access to hoses without the need for tools.

- Standard Duty: Nylon backing w/ Delrin/Polymide buckle & Nickel-plated brass grommet
- Heavy Duty: Double-backed Nylon w/ Nickel-plated steel buckle & Nickel-plated brass grommet

Typical Applications: Excavators, Aerial Lifts, Motor Graders, Cranes, Garbage Trucks, Service Trucks, Conveyors, Industrial Equipment, Recreational Vehicles



Hang & organize equipment with nickel-plated brass grommet.



The soft, low profile design of Python Straps prevent injury claims caused by traditional fixed hardware.



Hanging Straps provide a documented part location & allow access without the need for tools.

CINCH STRAPS  
HEAVY & STANDARD DUTY



HANGING STRAPS  
HEAVY & STANDARD DUTY



PROPERTIES	ABRASION RESISTANCE		NON WICKING ABILITY	
	S	H	S	H
	PUNCTURE RESISTANCE		SPALL/SPARK PROTECTION	
	S	H	S	H
	CHEMICAL RESISTANCE		WEIGHT / FLEXIBILITY	
	S	H	S	H
	UV PROTECTION		TEMPERATURE RATING	
	S	H	S	H

S = standard duty strap H = heavy duty strap

- Straps adjust & connect for use in 1000's of applications
- The fastest & strongest alternative to nylon ties & industrial tape
- Military-Spec closure up to 10x strong than traditional hook & loop
- Allows for natural hose expansion & contraction
- Fast & effective method for reducing maintenance & labor costs
- Usable, tear resistant & unimpacted by extreme environments

PROPERTIES	ABRASION RESISTANCE		NON WICKING ABILITY	
	S	H	S	H
	PUNCTURE RESISTANCE		SPALL/SPARK PROTECTION	
	S	H	S	H
	CHEMICAL RESISTANCE		WEIGHT / FLEXIBILITY	
	S	H	S	H
	UV PROTECTION		TEMPERATURE RATING	
	S	H	S	H

S = standard duty strap H = heavy duty strap

- One part system eliminates the need for nylon ties, rubber coated loop clamps & other discretionary fasteners
- Military-Spec closure up to 10x stronger than traditional hook & loop
- Stainless steel grommet supports bundle during assembly & provides fast, easy access without the need for tools
- Provides assembly with a documented part location
- Allows for natural hose expansion & contraction
- Usable, tear resistant & unimpacted by extreme environments



## Prevent Component Migration with Grip Straps

The newest member to the Python family, Grip Straps are designed to replace traditional bundling hardware where constant vibration causes migration of critical stationary components.

The strap features standard Military-Spec Python Hook & Loop® and an added heavy duty silicone backing to resist walking in vertical hose runs. Grip Straps are easy to install & ideal in environments where moisture, frost & constant vibration are present.

Grip Strap: Nylon backing w/ Nickel-plated steel buckle

Typical Applications: Rail Equipment, Cranes, Man Lifts, Telehandlers, Conveying Equipment, Mining Equipment, Vibratory Packers



Grip Straps are ideal in applications where bundling hardware cannot move.



Grip Straps feature Python Hook & Loop along with a heavy duty steel buckle & silicone backing.



In vibrating applications, Grip Straps remain stationary while allowing proper hose expansion.

PART #	MAX CIRCUMFERENCE
CS404G	4"
CS408G	8"
CS412G	12"
CS416G	16"

Sold in 10 packs



Vibratory hoses in manufacturing environments use Grip Straps to bundle expensive electrical lines.

## GRIP STRAP



Grip backing is ideal in applications where component migration increase the odds of equipment failure.

PROPERTIES	ABRASION RESISTANCE	NON WICKING ABILITY
	PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
	CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
	UV PROTECTION	TEMPERATURE RATING

- Ideal for vertical runs of hose, cabling, or wires
- Grip backing prevents migration in vibrating applications
- Allows for natural hose expansion & contraction
- Fast & effective method for reducing maintenance & labor costs
- Great solution for hoses that experience condensation or humidity

## MICRO CINCH STRAP

PART #	LENGTH	HOLE SIZE
CS206M	6"	NA
CS212M	12"	NA

Sold in quantities of 500 pieces.

## MICRO HANGING STRAP

PART #	LENGTH	HOLE SIZE
HS5206M	6"	1/4" (5mm)
HS8206M	6"	5/16" (8mm)
HS5212M	12"	1/4" (5mm)
HS8212M	12"	5/16" (8mm)
HS10212M	12"	1/2" (10mm)

Sold in quantities of 500 pieces.



Micro Straps allow for isolation of individual hoses & are easily trimmed to the desired length.

## Small, Tenacious Hose & Cable Management

Micro Straps are designed to provide industry with an extremely low-profile tool for miscellaneous wires, cables, & cords. Similar to the Python line, Micro Straps are available in both cinch & hanging models to accommodate an array of applications.

Micro Straps are built on a molded Hook & Loop backing allowing the straps to be quickly installed & trimmed to length. The reusable, high tenacity hook & loop featured on the Micro Strap is capable of carrying a stationary load of up to 45 lbs!

Mirco Straps: Polymide backing w/ molded Hook & Loop & Stainless Steel Hardware

Typical Applications: Service Truck Electronics, Packaging Machinery, Conveying Equipment, Automation, Pneumatics & Electronics



Automating packaging companies choose Micro Straps to route equipment cables.



Locking spurs prevent migration & provide assembly with a documented part location.



Electrical boxes on service trucks choose Micro Straps to manage heavy wiring channels.

## MICRO STRAPS CINCH & HANGING



MICRO HANGING



MICRO CINCH

PROPERTIES	ABRASION RESISTANCE	NON WICKING ABILITY
	PUNCTURE RESISTANCE	SPALL/SPARK PROTECTION
	CHEMICAL RESISTANCE	WEIGHT / FLEXIBILITY
	UV PROTECTION	TEMPERATURE RATING

- Low profile design accommodates thousands of applications
- Access hose, cables & wires in half the time compared to nylon ties
- Stainless Steel hardware prevents corrosion in wet environments
- Allows for natural hose expansion & contraction
- Tenacious, yet lightweight & compact
- Hanging straps provide documented part location for OEM assembly
- Molded hook & loop is easily trimmed to length



# INDUSTRY SOLUTIONS

We manufacture thousands of unique solutions in order to provide the perfect fit. Regardless of the application, we've got you covered!



## AGRICULTURE

Custom Sidewinder allows for quick and easy access to hoses on agriculture equipment.



## CONSTRUCTION

Hydraulic cylinders rely on the flexibility of 5601 to prevent contamination to piston rods.



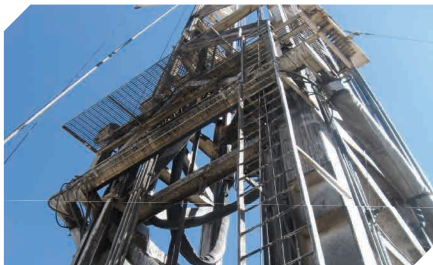
## DEFENSE

US Navy Ships rely on Sidewinder covers to protect "U" joints from saltwater corrosion.



## INDUSTRIAL

Sidewinder protects hoses and cables used in industrial & automation applications.



## OIL & GAS

Sidewinder helps Oil & Gas companies reduce downtime caused by hose damage.



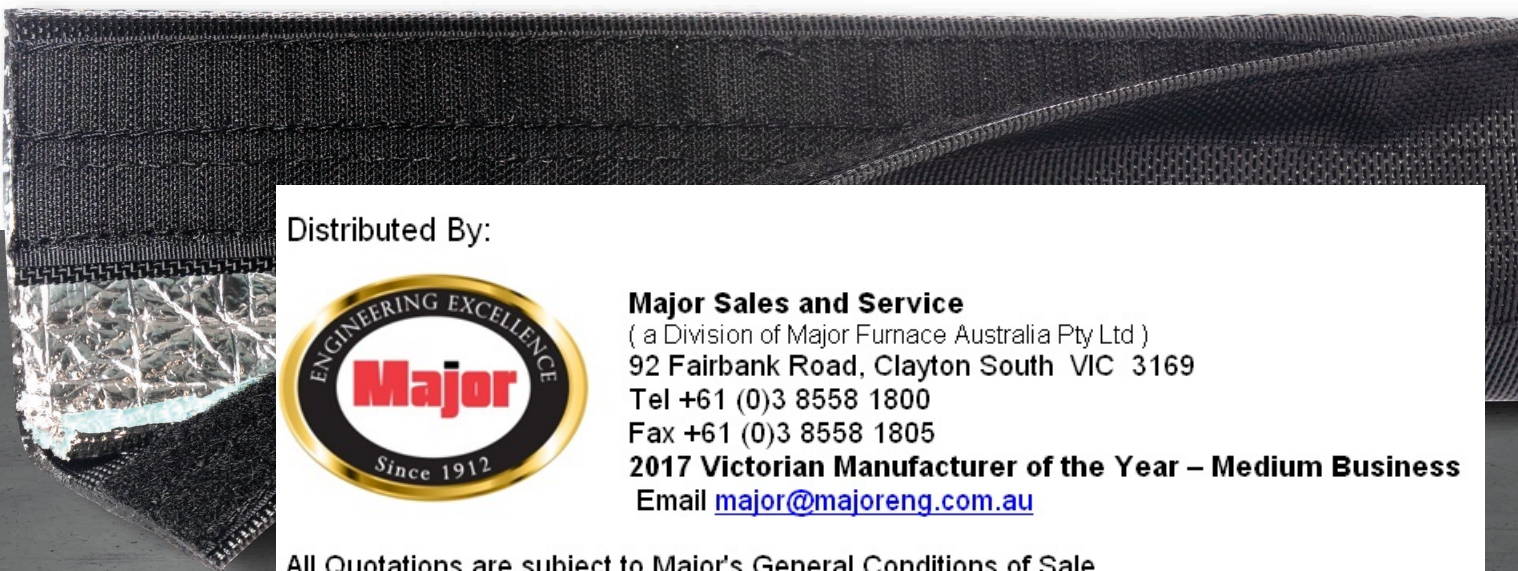
## TRANSPORTATION

Custom sleeve protects operators from high temperature material on asphalt trucks.



## UNDERHOOD/ENGINE

Exhaust covers protect sensitive engine components from exhaust manifold heat.



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