



TECHFLEX

Braided Sleeving Products

Solutions





Page 10



Page 6



Page 80



Page 45



Page 93



Page 8



Page 9



Page 28



Page 67



Page 52



Page 9



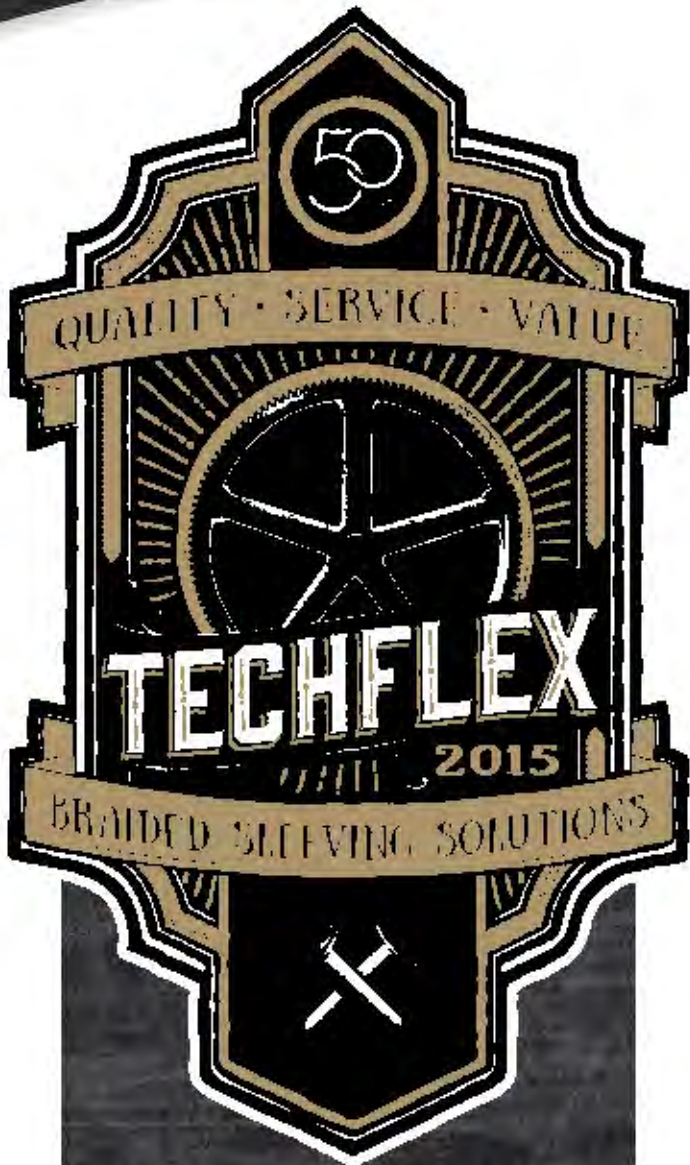
Page 62



Page 75



Page 42



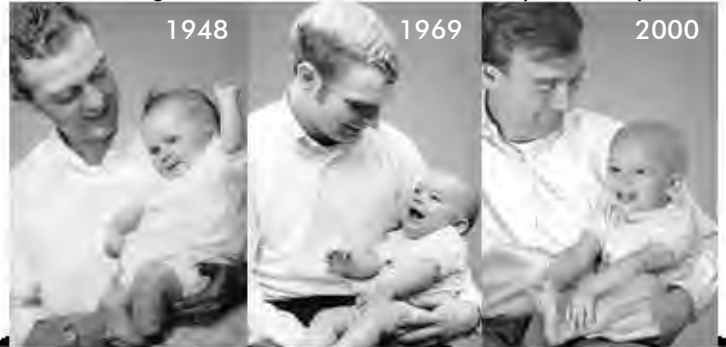
FOR OVER 50 YEARS...

The Techflex family has worked hard to bring us from our humble beginnings to the world-class supplier that we are today. We recognize that all of our efforts can only bring us so far, and it is the support from you, our customers, that completes this cycle.

THANK YOU!

Bill 3
Bill 4

3 generations of customer service & product expertise



HERITAGE

Since 1965, the Dermody family, founders and operators of TECHFLEX, have been engineering and manufacturing a wide range of braided sleeving products for a variety of industries: biomedical and aerospace to wire, hose, and cable bundling and protection solutions for hot rod enthusiasts. Our experience with this broad market, as well as our wide selection of general purpose and high-tech specialty products, has made TECHFLEX the first name in braided sleeving solutions.

SERVICE

We are organized and staffed to provide our customers with the finest products and account support possible. Our account personnel are continuously trained in both technical aspects and application possibilities of our entire line of products.

Through the use of our ISO 9001 certified management system, total product quality is maintained throughout the entire organization, from initial product design through final shipment and account management.



CUSTOMIZATION



We are completely in-house equipped to fabricate our products into virtually any size or shape, for any application. Services include high speed digital cutting and counting, printing, customized kitting, and private labeling programs.

We will fabricate custom material and color combinations to tight specifications. We have facilities for multi-step processing such as flattening, rounding, ultrasonic cutting, and welding. Our custom services can help you realize your design and application goals.





QUALITY • SERVICE • VALUE

PRODUCT ACCESS...SIMPLIFIED

Product information when and where you need it. This catalog is only the tip of the iceberg when it comes to the commitment Techflex has to providing the most comprehensive information to our customers. Great project solutions start with simple access to high quality data about the materials under consideration. World wide availability of high level product knowledge sets Techflex apart from other protection system companies. Our web & B2B infrastructure, our spec & data sheets, and our catalogs provide expert guidance for novice to expert sleeving users and specifiers.



INNOVATION

It begins with the most varied and complete range of braided sleeving products in the industry and continues with a corporate culture of customer fulfillment and satisfaction. If your application calls for braided sleeving, and the job needs to be done right, Techflex can do it!

Aggressive new product development programs, combined with a management team dedicated to directly targeting the needs of a constantly evolving market, result in a wide range of exciting products that will fully meet your needs for economical and durable sleeving solutions.

PRODUCT CONTROL

Techflex sets the industry standard for the continuous tracking of products, from their earliest manufacturing steps through final delivery to customers at any volume level. Managed receiving of inventory, automatic lot and spool tracing, originator documentation, and constant quality testing and detailed records ensure that included products will perform as indicated and will meet the specific needs of all of our customers.

These systems, along with our program of product reliability assurance means that our customers can remain confident that any Techflex product will not only meet industry standards, but may vastly exceed them in many instances.

In-house test lab



7 REASONS TO USE FLEXO® EXPANDABLE SLEEVING

FAST INSTALLATION

Unlike other techniques for cable management, expandable sleeving goes on fast and is able to go over connectors up to 3 times the size of the finished harness.

LONG LENGTH CAPABILITY

The unique characteristics of FLEXO expandable sleeving allow it to easily slide over cable installations as long as 1,000'. No pulling or fishing required.

EXTREME FLEXIBILITY

Unlike stiff plastic coverings, harnesses built with expandable sleeving can be tightly coiled, curved around obstructions, and routed to their destination more easily. FLEXO sleeving easily conforms to your desired shape.

REDUCED VOLUME

FLEXO® sleeving provides needed abrasion protection without adding unnecessary bulk or dimension to harnesses and cables. This helps in routing wiring through tight spaces.

LIGHT WEIGHT

Expandable sleeving is very light when compared to other harness materials. This weight reduction can add up to considerable savings when used on large and small projects.

QUICK DISSIPATION OF MOISTURE

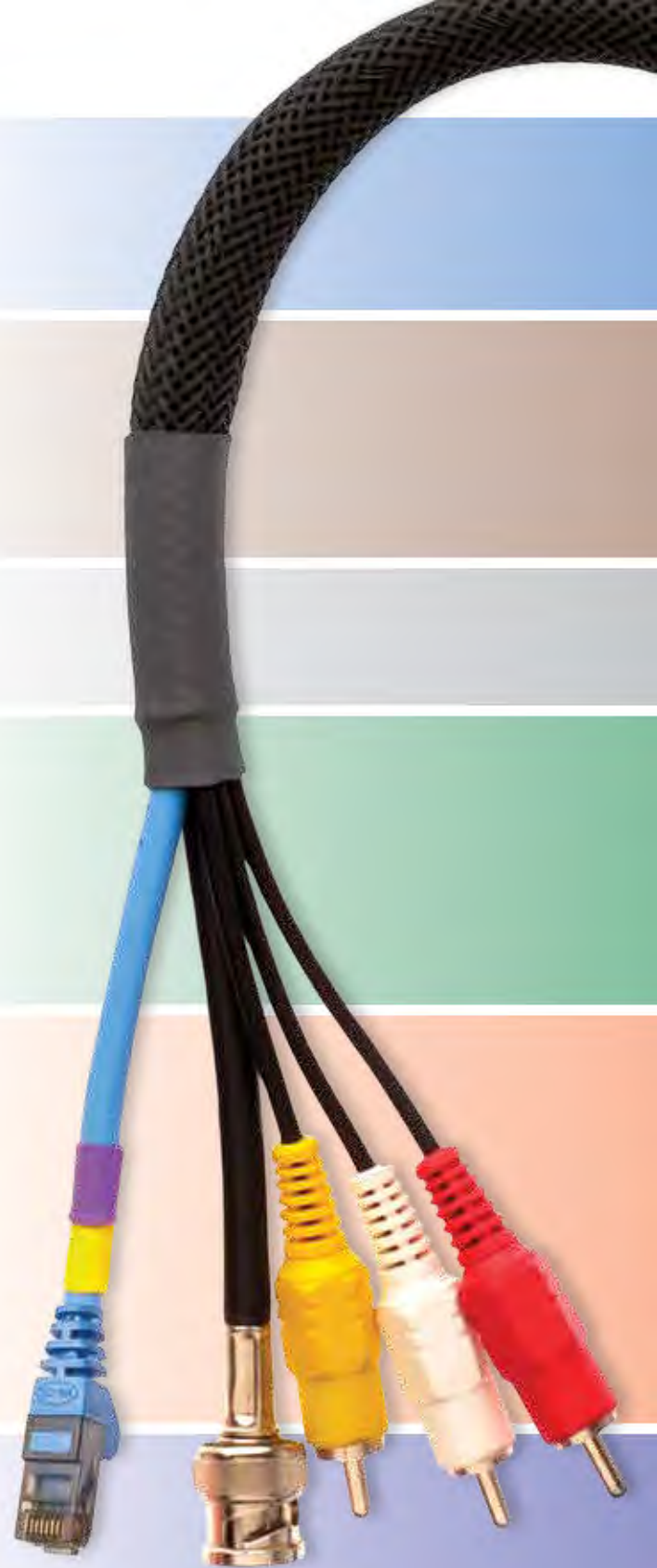
This feature of expandable sleeving is useful in rugged applications where soaking and wash downs are common. Unlike sealed tubular products, FLEXO® sleeving doesn't trap moisture, grease, or oils which can harm wire jacketing.

UNBEATABLE GREAT LOOKS

We're convinced that no product looks as good on a harness as FLEXO® expandable sleeving. This, combined with all of the other factors, add up to an easy conclusion...



**FLEXO®
IS THE RIGHT
CHOICE.**



GENERAL PURPOSE

For general bundling & protection in office, commercial, & industrial applications, these products offer economical & varied solutions.

HEAVY DUTY

For applications where protection from abrasion damage is a primary concern, this line of Techflex products is the right solution for rugged, challenging environments.

METAL / SHIELDING

EMI, RFI, & ESD shielding solutions

ADVANCED ENGINEERING

Engineered from specialized polymers, designed to exact specifications, & manufactured to tight tolerances, these premium products are in use in many aerospace, military, & biomedical applications.

EXTREME TEMPERATURE

Designed for protection from high temperature environments where failure would be catastrophic, these products are state-of-the-art in high-temp material engineering.

SPECIALTY

Techflex specializes in providing highly engineered, application specific products to fulfill our customers' individual specifications.

PRODUCTS

Flexo PET.....	6-7
Overexpanded & Tight Weave.....	8
ReMix & PrisMix.....	9
F6.....	10-11
F6 Woven Wrap.....	12
Clean Cut.....	13
Flexo Wrap.....	14
Grip Wrap.....	15
Heavy Wall.....	16
Flexo Super Duty.....	17
Gorilla Sleeve.....	18
Rodent Resistant.....	19
Dura-Flex.....	20
Dura-Wrap.....	21
Dura-Braid.....	22
Dura-Flex Pro.....	23
Turtle Wrap.....	24
Gator Wrap.....	25
Tinned Copper.....	26
Tinned Copper Flat & Flexo Copper.....	27
Flexo Stainless Steel & Flexo Brass.....	28
Flexo Stainless Steel XC.....	29
Flexo Shield.....	30
Flexo Anti-Stat.....	31
Clean Cut FR.....	32
Flexo FR.....	33
F6 Woven Wrap FR.....	34
F6 FR.....	35
Flexo Wrap FR.....	36
Tight Weave 9 Mil FR.....	37
Flexo Halar.....	38
Flexo PFA.....	39
Flexo PPS.....	40
Flexo PEEK.....	41
Aramid Armor.....	42
Aramid Flexo KV & Vectran Fiber.....	43
Insultherm.....	44
Insultherm Heavy Duty.....	45
Insultherm Tru-Fit.....	46
Insultherm Ultraflex.....	47
Insultherm Spark Plug Boot.....	48
Insultherm Ultraflex & Silica.....	49
Header Wrap & Wrap Sl.....	50
Volcano Wrap.....	51
ThermaShield.....	52-53
ThermaShield T6.....	54
Connector Shield & ThermaShield Tape.....	55
Meta Aramid Flexo NX.....	56
Weld-Wrap.....	57
FireFlex.....	58
FireFlex Aero.....	59
FireFlex Wrap & FireFlex Flat.....	60
Silver & Gold Foil.....	61
L6 Liquid Wrap.....	62
F6 Flat.....	63
Nylon Monofilament.....	64
Nylon Multifilament.....	65
F6 Reflex & Reflex.....	66
Flexo Noise Reduction & F6 Quiet.....	67
Studio Key Wrap.....	68
Flexo Mounting System.....	69
Dura-Race.....	70
Non-Skid.....	71
Flexo Mylar.....	72
Chrome & Chrome XC.....	73
Flexo 6 Mil & Flexo Thin.....	74
Carbon Fiber.....	75
Electrical Insulation.....	76-79
Shrink Tubing.....	80-89
Terminations & Bundling.....	90-97
Tools & Accessories.....	98-101
Techflex Custom.....	102-105
Product Comparison.....	106-112



- Economical and Easy to Install
- Cut and Abrasion Resistant
- Expands up to 150%
- Halogen Free
- Resists Gasoline, Engine Chemicals, and Cleaning Solvents
- FMVSS 302 Approved

A Versatile Bundling & Protection Solution

The FLEXO PET (PTN) grade is used in electronics, automotive, marine, and industrial wire harnessing applications where cost efficiency and durability are critical. The unique braided construction and wide expandability allows quick and easy installation over large connectors and long runs. PTN can be found in applications ranging from small office/home office to high tech wire and cable harnesses. The wide range of available colors and sizes allows easy and systematic color coding in complex wiring and cabling installations. PTN is braided from 10 mil polyethylene terephthalate (PET) monofilament yarns. The material has a wide operating temperature range, and is resistant to chemical degradation, UV radiation, and abrasion. The sleeving cuts easily and cleanly with a hot knife and once installed, will beautify and protect any wire, hose, or cable application.

The Widest Range of Sizes in The Industry



When cut with a hot knife, the sealed ends of Flexo PET allow for varied termination solutions.



Flexo PET installs quickly in production harnessing environments, reducing assembly cost.



High thermal and chemical resistance and wide color/size selection make Flexo PET ideal for customizing and protecting the wires, hoses, and cables in custom and classic cars.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'	
		Min.	Max.	Bulk Spool	Shop Spool			
1/16"	PTN0.06	3/64"	3/32"	1,000'	250'	more than 30 (check for availability)	0.22	
1/8"	PTN0.13	3/32"	1/4"	1,000'	225'		0.20	
1/4"	PTN0.25	1/8"	7/16"	1,000'	200'		0.30	
3/8"	PTN0.38	3/16"	1/2"	500'	125'		0.57	
1/2"	PTN0.50	1/4"	3/4"	500'	100'		0.77	
5/8"	PTN0.63	3/8"	1"	500'	100'		0.95	
3/4"	PTN0.75	1/2"	1 1/4"	250'	75'		1.20	
1"	PTN1.00	5/8"	1 5/8"	250'	65'		1.34	
1 1/4"	PTN1.25	3/4"	1 3/4"	250'	50'		1.60	
1 1/2"	PTN1.50	1"	2 1/8"	200'	40'		1.96	
1 3/4"	PTN1.75	1 1/4"	2 3/4"	200'	30'		2.45	
2"	PTN2.00	1 1/2"	3 1/2"	200'	50'		2.60	
2 1/2"	PTN2.50	1 3/4"	3 5/8"	200'	50'		3.80	
3"	PTN3.00	2 1/2"	4 3/4"	100'	50'		3.80	
3 End Construction								
1/4"	PT30.25	1/8"	3/8"	1,000'	200'		BK, CL,NB & RE	0.39
9 Mil Construction								
4"	PT94.00BK	4"	6 1/2"	100'	50'	Black (BK)	3.80	
PET Lean								
3/4"	PTL0.75BK	1/2"	1 1/4"	250'	75'	Black (BK)	1.04	
1 1/4"	PTL1.25BK	3/4"	1 3/4"	250'	50'	Black (BK)	1.19	



The Widest Range of Colors in The Industry

Techflex offers Flexo PET in the widest range of standard colors in the industry, including UV reactive and multicolor spirals. Additionally, we can manufacture Flexo PET in custom solid or spiral combinations.



Also contact an account representative for relevant details regarding custom orders.
See the web for the complete list of colors.

***UV Reactive**

1-973-300-9242
www.techflex.com



- Expands up to 200%
- Cut and Abrasion Resistant
- Halogen Free
- FMVSS 302 Approval
- Cuts Easily with Scissors or a Hot Knife

Extra Expansion for Easy Application

FLEXO PET OVEREXPANDED (PTO) has many uses where inexpensive bundling is the principal consideration. Created to provide a fast, easy bundling solution for automotive and marine wiring. Overexpanded opens nearly 4 to 1.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	PTO0.25	1/8"	1/2"	1,000'	200'	BK	0.24
3/8"	PTO0.38	3/16"	1"	500'	125'	BK,CL,PP,NB,RD,NY,CB	0.52
1/2"	PTO0.50	7/16"	1 3/8"	500'	100'	CL & BK	0.63



Extra Coverage

TIGHT WEAVE (PTT) is designed for use in applications where optimum coverage and abrasion resistance is required. The tight braid construction increases the coverage, wear factor, and improves harness security.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	PTT0.13	1/16"	1/4"	1,000'	225'	BNR,BNB,BNO,BNY,BK	0.29
1/4"	PTT0.25	11/64"	11/32"	1,000'	200'	BNR,BNB,BNO,BNY,BK	0.36
5/16"	PTT0.31	1/4"	3/8"	1,000'	200'	BNR,BNB,BNO,BNY,BK	0.58
1/2"	PTT0.50	11/32"	5/8"	500'	100'	BNR,BNB,BNO,BNY,BK	0.84
3/4"	PTT0.75	1/2"	13/16"	250'	75'	BNR,BNB,BNO,BNY,BK	1.10
1"	PTT1.00	5/8"	1 1/8"	250'	65'	BNR,BNB,BNO,BNY,BK	1.23
1 1/4"	PTT1.25	1"	1 11/16"	250'	50'	BNR,BNB,BNO,BNY,BK	1.30
1 1/2"	PTT1.50	1 1/8"	2"	200'	40'	BNR,BNB,BNO,BNY,BK	1.95
1 3/4"	PTT1.75	1 1/2"	2 5/8"	200'	30'	BNR,BNB,BNO,BNY,BK	2.60
2"	PTT2.00	1 3/4"	3 1/8"	200'	50'	BNR,BNB,BNO,BNY,BK	3.43
2 1/2"	PTT2.50	2"	3 1/2"	100'	50'	BNR,BNB,BNO,BNY,BK	3.60





Flexo PET ReMix - New, Random Construction

Our innovative construction process produces a unique visual effect while providing fuller coverage and enhanced protection. The same PET monofilaments we use for the FLEXO PET grade sleeving come alive in these new color combinations. Use Denim, Fire, Camo, Desert Camo, & Jungle to add pizzazz to any place you use sleeving.

FLEXO PET REMIX (PTM) is braided from 10 mil Polyethylene Terephthalate (PET) monofilament yarns. The material has a wide operating temperature range, resists chemical degradation, UV damage, and abrasion.

• **Expands up to 150%**

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
3/8"	PTM0.38	1/4"	7/16"	500'	125'	DE, FI, CA, DC, JU	0.49
1/2"	PTM0.50	3/8"	5/8"	500'	100'	DE, FI, CA, DC, JU	0.74
3/4"	PTM0.75	5/8"	1 3/16"	250'	75'	DE, FI, CA, DC, JU	0.99
1 1/4"	PTM1.25	1 1/8"	1 3/4"	250'	65'	DE, FI, CA, DC, JU	1.32
1 1/2"	PTM1.50	1 3/8"	2 3/8"	200'	40'	DE, FI, CA, DC, JU	1.96



Braided Camo

PRISMIX (PTD) utilizes a cutting-edge dual-colored monofilament to produce never before possible color combinations. This new technology creates an incredible random camouflage in our exclusive new Mix series of products. Be sure to utilize PrisMix on your next adventure for the best braided camo you have ever seen! (or not seen)



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	PTD0.25	1/8"	7/16"	1,000'	200'	EM & TM	0.30
3/8"	PTD0.38	3/16"	1/2"	500'	125'	EM & TM	0.57
1/2"	PTD0.50	1/4"	3/4"	500'	100'	EM & TM	0.77
5/8"	PTD0.63	3/8"	1"	500'	100'	EM & TM	0.95
3/4"	PTD0.75	1/2"	1 1/4"	250'	75'	EM & TM	1.20
1"	PTD1.00	5/8"	1 5/8"	250'	65'	EM & TM	1.34
1 1/4"	PTD1.25	3/4"	1 3/4"	250'	50'	EM & TM	1.60
1 1/2"	PTD1.50	1"	2 1/8"	200'	40'	EM & TM	1.96
1 3/4"	PTD1.75	1 1/4"	2 3/4"	200'	30'	EM & TM	2.45

• **Dual-Colored Monofilament**



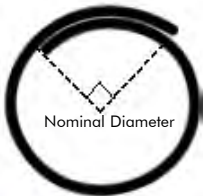


- **Easy, Cost Effective Installation**
- **More Flexible than Split Convuluted or Spiral Wrap**
- **25% Edge Overlap**
- **Cut and Abrasion Resistant**
- **Halogen Free**
- **Retains Shape & Rigidity Throughout -94°F to 257°F Temp. Range**
- **Melt Temp 482°F**

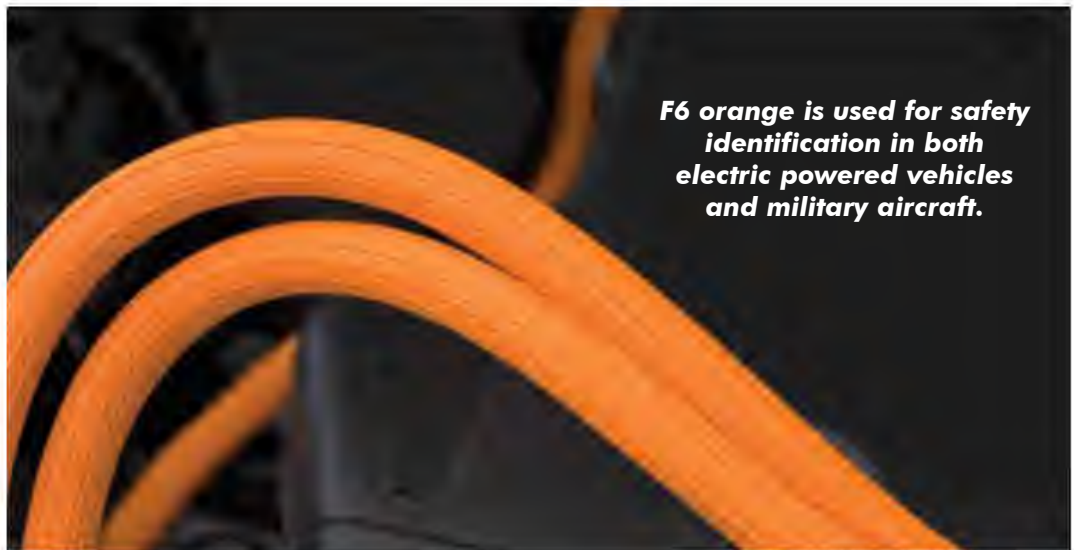
Flexible, Semi-Rigid Wrappable Split Braided Tube

FLEXO F6's (F6N) unique split, semi-rigid braided construction makes it the ideal solution for situations where ease of installation is of primary importance. The lateral split allows the tube to open up to accommodate a wide variety of bundling requirements, while the semi-rigid braid configuration simply closes around the entire installation without the need for any additional fasteners (Velcro, tape, etc.). The 10 mil PET braid is lightweight, quiet, and flexible. The 25% edge overlap (at nominal diameter) allows for coverage around inline plugs, connectors, and splices.

F6N will bend to a tight radius without distorting or splitting open, and unlike full rigid tubing, will not impair or affect the flexibility of harnesses. F6 allows for addition or removal of wires without disassembly.



The large overlap allows easy installation over splices and inline connectors without exposing wires and cables.



F6 orange is used for safety identification in both electric powered vehicles and military aircraft.



Nominal Size	Part #	Wall Thickness	Standard Put-Ups			Available Colors	Lbs/100'
			Bulk Box	Box A	Box B		
1/8"	F6N0.13	.024"	10,000'	400'	100'	BK, OR, PG, CW	0.20
1/4"	F6N0.25	.025"	3,000'	200'	100'	BK, OR, PG, CW	0.60
3/8"	F6N0.38	.025"	1,500'	150'	75'	BK, OR, PG, CW	1.20
1/2"	F6N0.50	.025"	1,200'	150'	75'	BK, OR, PG, CW	1.40
3/4"	F6N0.75	.025"	500'	100'	50'	BK, OR, PG, CW	1.60
1"	F6N1.00	.038"	400'	100'	50'	BK, OR, PG, CW	2.00
1 1/4"	F6N1.25	.038"	250'	75'	25'	BK, OR, PG, CW	2.40
1 1/2"	F6N1.50	.038"	250'	75'	25'	BK, OR, PG, CW	2.70
2"	F6N2.00	.038"	200'	50'	25'	BK, OR, PG, CW	3.60





F6 is available in self-storing boxes.



F6 Installation Tool
This simple tool makes installing long lengths of F6 sleeving a breeze. Just insert your bundle of wires into the shank of the tool and slide it along the split in the sleeving. As the tool travels along the sleeving, it deposits the wires and allows the split to close correctly. See part numbers on page 100.



1-973-300-9242
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- High Coverage
- Easy, Cost Effective Installation
- More Flexible than Split Convolutd or Spiral Wrap

Woven, Split Tubular Harness Wrap

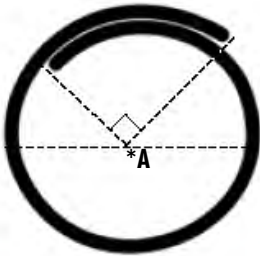
F6 WOVEN WRAP (F6W) has been engineered from the ground up to meet the demanding specifications of today's modern wiring harness industry.

F6 Woven utilizes many of the same characteristics as our original F6 split braided sleeving including the easy wrap around design and the extra overlap to ensure complete protection of important electronic communication and power systems. This design allows for easy installation over components without the need for time consuming and costly disassembly.

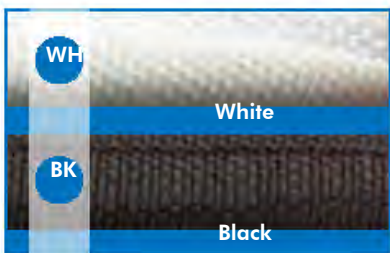
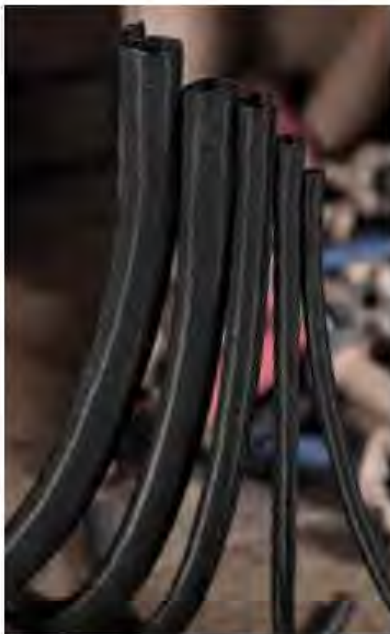
By utilizing a unique blend of monofilament and multifilament polyester fibers, the new woven construction provides superior elastic flexibility with unbeatable coverage over any harness assembly. Wire harness professionals will also appreciate the increased abrasion resistance F6 Woven will provide to their cable assemblies.

With 12 standard sizes Techflex F6 Woven Wrap will be a great fit on your next wire harness project.

The Right Overlap For Your Harness



The engineered overlap allows ideal flexibility without exposing wires and cables.



The Perfect Fit,
Every Time

Nominal Size	Part #	Wall Thickness	Standard Put-Ups			Available Colors	Overlap *A	Lbs/100'
			Bulk	A	B			
1/8"	F6W0.13	.027"	1,800'	900'	300'	WH & BK	40%	0.57
3/16"	F6W0.19	.027"	1,200'	600'	200'	WH & BK	51%	0.98
1/4"	F6W0.25	.027"	925'	450'	200'	WH & BK	44%	1.10
5/16"	F6W0.31	.027"	650'	325'	125'	WH & BK	40%	1.30
3/8"	F6W0.38	.027"	450'	225'	100'	WH & BK	41%	1.50
1/2"	F6W0.50	.027"	300'	150'	75'	WH & BK	35%	1.80
5/8"	F6W0.63	.027"	250'	125'	75'	WH & BK	30%	2.10
3/4"	F6W0.75	.027"	150'	100'	50'	WH & BK	28%	2.40
1"	F6W1.00	.027"	100'	75'	50'	WH & BK	26%	3.20
1 1/2"	F6W1.50	.027"	50'	25'	-	WH & BK	23%	4.50
1 3/4"	F6W1.75	.027"	50'	10'	-	WH & BK	23%	5.00
2"	F6W2.00	.027"	40'	10'	-	WH & BK	23%	6.00





Scissor-Cut for Easy, Fray-Resistant Installation in Production or Field

By adjusting the physical characteristics of the polyethylene terephthalate filaments, the engineers at Techflex have produced a product with the same specifications as our PET with the unique advantage of being able to cut the material with ordinary scissors and still maintain an extraordinarily fray-resistant end.

FLEXO CLEAN CUT (CCP) is ideal for field installers and situations where access to a hot knife is impossible. CCP's fray-resistant properties allow for frequent expansion at the cut end without unraveling. When cut with a hot knife, CCP produces a virtually frayless end. Clean Cut sets the highest standard for uncoated fray resistance sleeving products.

- **Resists Fraying when Cut with Scissors**
- **Increased Braid Density for Fuller Coverage**
- **High Abrasion Resistance**
- **Temperature Range -94°F to 257°F**
- **Melt Temp. 482°F**

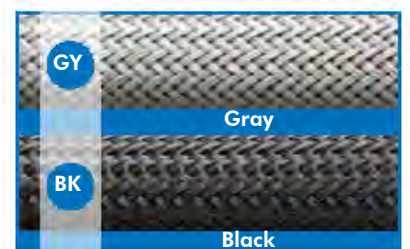


Clean Cut cuts easily and neatly with regular scissors and maintains a fray resistant end during installation.



When scissor cut, the end of Clean Cut will withstand heavier handling without fraying than standard PET.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	CCP0.13	1/8"	1/4"	1,000'	100'	BK & GY	0.40
1/4"	CCP0.25	5/32"	7/16"	1,000'	100'	BK & GY	0.46
3/8"	CCP0.38	3/16"	5/8"	500'	100'	BK & GY	0.74
1/2"	CCP0.50	1/4"	3/4"	500'	100'	BK & GY	0.82
3/4"	CCP0.75	5/8"	1"	250'	75'	BK & GY	1.11
1"	CCP1.00	3/4"	1 3/16"	250'	50'	BK & GY	1.24
1 1/4"	CCP1.25	1"	1 1/2"	250'	50'	BK & GY	1.56
1 1/2"	CCP1.50	1 1/4"	2"	250'	50'	BK & GY	1.85
1 3/4"	CCP1.75	1 1/2"	2 1/8"	200'	50'	BK & GY	2.30
2"	CCP2.00	1 3/4"	2 1/2"	200'	50'	BK & GY	2.80





- **Heavy Duty Hook and Loop Closure for Frequent Access**
- **Expands to Fit Over Inline Connectors and Splices**
- **Halogen Free**
- **Temperature Range -94°F to 257°F**
- **Melt Temp. 482°F**

Flexible Control & Management with Easy On, Easy Off Access

FLEXO WRAP (FWN) is an exclusive product engineered and manufactured by Techflex. FWN provides the perfect solution to a wide variety of unique application challenges.

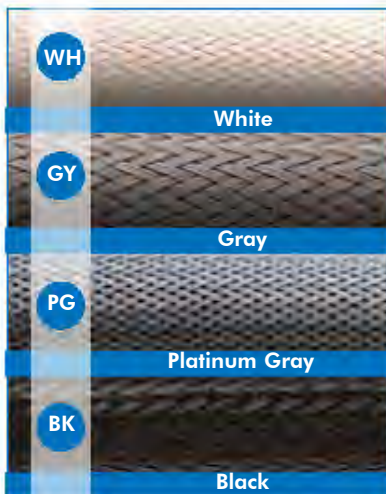
The color matched hook and loop closure provides for easy on and off installation, as well as instant and convenient access for harness break-outs and rework of any specific section along the entire length of the run. Combined with the expandable, open weave design, FWN will conform to a wide variety of bundle diameters and will wrap around irregular shapes. All grades of FWN cut cleanly with a hot knife.

FLEXO WRAP is designed for quick and easy management of wire, cable, and hose assemblies. Just separate the hook and loop fasteners along the edge of the material...

and slip the entire length of FWN around or under your harness or component assembly. The wide expandability range allows FWN to easily fit around...

odd-shaped connectors and gently constrict around the diameter of your wires. When the FWN is in place, simply seal the hook and loop along the edges.

Easy and secure cable organization.



Nominal Size	Part #	Hook & Loop Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
1/2"	FWN0.50	1/4"	100'	20'	WH, GY, PG & BK	1.30
3/4"	FWN0.75	5/8"	100'	15'	WH, GY, PG & BK	1.80
1 1/4"	FWN1.25	5/8"	100'	12'	WH, GY, PG & BK	2.30
2"	FWN2.00	5/8"	100'	10'	WH, GY, PG & BK	3.20
2 1/2"	FXN2.50BK	5/8"	100'	10'	BK	3.75

Call for more color availability.

Adjustable Diameter Sleeve with Easy On, Easy Off Access

GRIP WRAP (GWN) is a lightweight, abrasion resistant sleeving with a unique hook sealing system that eliminates spot taping and does not require an open end for installation. The sleeving permits easy access for inspection, rework, or replacement of components.

Grip Wrap provides cut-through and abrasion protection, and is easily applied to areas restricted by breakouts and large end fittings. It can be used to bundle wire harnesses, and can also be used to substitute molded channels.

The unique Grip Wrap system provides a variety of sealing and mounting options to accommodate any harnessing or cable management application.

One Size - Multiple Possibilities



Grip Wrap can be screwed in place for a permanent wire duct.

- **Wrappable Design for Easy Installation and Removal**
- **Excellent Protection Against Cut-Through, Abrasion, and Impact**
- **Closure Maintains Low Profile For Flat Cables & Harnesses**
- **Temperature Range -94°F to 257°F**
- **Melt Temp. 482°F**



Soft sleeve for reduced noise on floors and in studios.



Nominal Size	Part #	Flat Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
3/4"	GWN0.75BK	2 15/16"	50'	25'	Black (BK)	2.00
1"	GWN1.00BK	4 7/16"	50'	25'	Black (BK)	3.00
1 3/8"	GWN1.38BK	5 5/16"	50'	25'	Black (BK)	4.00
Extra Flexible Construction						
3/4"	GWX0.75BK	3 1/8"	50'	25'	Black (BK)	2.97





HEAVY
DUTY

- 950 Cycles*
- Braided from 15 mil PET Monofilament
- Extreme Abrasion & Cut Resistance
- UV Resistant
- Resists Gasoline, Solvents, Salt Water, and Chemicals
- Temp. Range -94°F to 257°F
- Melt Temp. 482°F

50% Thicker for The Really Abrasive Jobs

When your application calls for more protection than our 10 mil products provide, our 15 mil FLEXO HEAVY WALL (HWN) is the ideal solution.

HWN is commonly used in industrial and marine applications where extreme abrasion protection is critical. The durability of HWN makes it ideal for protecting hoses and cables that have to withstand constant contact with rough and abrasive surfaces.

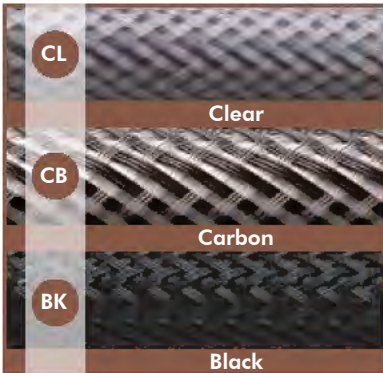
HWN is the perfect solution for use on hoses, cables, and chains to protect painted or laminated surfaces from scuffing and wear.



MARINE INDUSTRY PROVEN



Flexo HWN quickly dries when exposed to moisture making it ideal for marine applications.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	HWN0.13BK	1/16"	3/16"	500'	125'	BK	0.27
3/8"	HWN0.38	3/16"	3/4"	500'	100'	CL, CB & BK	0.82
5/8"	HWN0.63	5/16"	7/8"	250'	75'	CL, CB & BK	1.10
1"	HWN1.00	1/2"	1 1/2"	250'	50'	CL, CB & BK	1.60
1 1/2"	HWN1.50	3/4"	2"	250'	50'	CL, CB & BK	2.50
2"	HWN2.00	1 1/2"	3"	200'	50'	CL, CB & BK	3.40
3"	HWN3.00	2"	4"	100'	50'	CL, CB & BK	4.20
4"	HWN4.00	2 1/2"	5 1/2"	100'	50'	CL, CB & BK	4.20

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*Abrasion Resistance

630	950	2,500	3,500	4,400	8,500	13,000
HIGH			EXTREMELY HIGH			





Heavy Duty, Light Weight & Flexible

FLEXO SUPER DUTY (SDN) is braided from 20 mil Nylon® 6-6 Polyamide monofilament. Heavy duty and flexible, this sleeving is extremely versatile. Excellent durability makes SDN ideal for a wide range of industrial applications and areas where high abrasion protection is needed.

Super Duty outperforms all competitive round filament sleeving. SDN is also more economical and easy to use, cutting cleanly with a hot knife leaving a neatly sealed end.



- **2,500 Cycles***
- **Braided from 20 Mil Nylon Monofilament**
- **High Coverage**
- **Extreme Abrasion and Cut Resistance**
- **Resists Gasoline, UV, Solvents, Salt Water, and Chemicals**

Super Duty protects harnesses & hydraulic hoses from abrasion & flying debris without affecting flexibility or trapping moisture.



In rugged outdoor applications SDN will prolong the life of hoses and wires.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	SDN0.25BK	1/4"	1/2"	500'	100'	Black (BK)	1.05
1/2"	SDN0.50BK	1/2"	1"	250'	100'	Black (BK)	1.85
3/4"	SDN0.75BK	3/4"	1 1/4"	250'	50'	Black (BK)	2.30
1"	SDN1.00BK	1"	1 1/2"	250'	50'	Black (BK)	2.75
1 1/4"	SDN1.25BK	1 1/4"	2"	250'	50'	Black (BK)	3.00
1 3/4"	SDN1.75BK	1 3/4"	2 3/4"	100'	25'	Black (BK)	4.00
2 1/4"	SDN2.25BK	2 1/4"	3"	100'	25'	Black (BK)	5.30



Beats all competition in its class in head-to-head abrasion testing.



*Abrasion Resistance

630	950	2,500	3,500	4,400	8,500	13,000
HIGH			EXTREMELY HIGH			



1-973-300-9242
www.techflex.com



HEAVY
DUTY

- **4,400 Cycles***
- **Flat Filament Technology**
- **Smooth Feel and Reduced Drag**
- **Resists Damage from UV, Gasoline, Engine Chemicals, and Salt Water**
- **Extreme Cut and Abrasion Resistance**

Innovative Flat Filament Braided for High Abrasion Resistance

GORILLA SLEEVE (NHN) is engineered from flat filaments of tough and strong 6-6 Nylon to achieve a thick abrasion guard for use on hoses. This type of sleeve has been tested against competitor's abrasion guards that mix materials in an effort to gain slight abrasion advantages.

Gorilla Sleeve achieves better results without sacrificing great looks or flexibility.

50 mil flat monofilament

FLEXO
10 mil round monofilament



Comparison of monofilaments: flat versus round (magnified for better visibility)



Constant abuse from abrasion and vibration make Gorilla Sleeve the choice to protect hoses on excavators and heavy equipment.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
3/8"	NHN0.38BK	1/4"	1/2"	500'	100'	Black (BK)	1.00
1/2"	NHN0.50BK	3/8"	5/8"	500'	100'	Black (BK)	1.40
3/4"	NHN0.75BK	5/8"	1"	250'	50'	Black (BK)	2.10
1"	NHN1.00BK	7/8"	1 1/4"	250'	50'	Black (BK)	2.20
1 1/4"	NHN1.25BK	1"	1 1/2"	250'	50'	Black (BK)	2.50
1 1/2"	NHN1.50BK	1 1/4"	1 3/4"	100'	25'	Black (BK)	3.40
1 3/4"	NHN1.75BK	1 1/2"	2"	100'	25'	Black (BK)	4.00
2"	NHN2.00BK	1 3/4"	2 1/2"	100'	25'	Black (BK)	4.40
3"	NHN3.00BK	2 1/4"	3 1/2"	100'	25'	Black (BK)	6.50

1-973-300-9242
www.techflex.com



*Abrasion Resistance

630	950	2,500	3,500	4,400	8,500	13,000
HIGH				EXTREMELY HIGH		





The Latest Innovation Against Pesky Rodents!

FLEXO RODENT RESISTANT (RRN) is the latest solution from Techflex for fighting the harmful effects of unprotected wires which are exposed to rodents. Muskrats, Mice, Rats, and other rodents have never ending time to find and destroy wiring and hose systems. Techflex has once again combined our knowledge of technical filaments and braided protection sleeves to create an amazing rodent resistant sleeve.

Our new flexible wire and hose braided conduit makes a very repulsive meal for any critter. In our own in-house testing, rodents completely avoided our new Flexo RRN even when stuffed with food. Make your wires and hoses an unappealing midnight snack with new Flexo Rodent Resistant!

- **Rodent Resistant**
- **Expands up to 150%**
- **Economical and Easy to Install**
- **Cut and Abrasion Resistant**



Flexo RRN sleeving protects against costly damage to wires and hoses due to rodent exposure.



In our own in-house testing, rodents completely avoided our new Flexo RRN.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	RR30.25DB	1/8"	3/8"	1,000'	200'	Dark Brown(DB)	0.39
3/8"	RRN0.38DB	3/16"	1/2"	500'	125'	Dark Brown(DB)	0.57
1/2"	RRN0.50DB	1/4"	3/4"	500'	100'	Dark Brown(DB)	0.77
5/8"	RRN0.63DB	3/8"	1"	500'	100'	Dark Brown(DB)	0.95
3/4"	RRN0.75DB	1/2"	1 1/4"	250'	75'	Dark Brown(DB)	1.20
1"	RRN1.00DB	5/8"	1 5/8"	250'	65'	Dark Brown(DB)	1.34
1 1/4"	RRN1.25DB	3/4"	1 3/4"	250'	50'	Dark Brown(DB)	1.60
1 1/2"	RRN1.50DB	1"	2 1/8"	200'	40'	Dark Brown(DB)	1.96
1 3/4"	RRN1.75DB	1 1/4"	2 3/4"	200'	30'	Dark Brown(DB)	2.45
2"	RRN2.00DB	1 1/2"	3 1/2"	200'	50'	Dark Brown(DB)	2.60
2 1/2"	RRN2.50DB	1 3/4"	3 5/8"	200'	50'	Dark Brown(DB)	3.80

*Disclaimer. Use caution while handling Flexo Rodent Resistant. May cause skin and/or eye irritation.



Millions of dollars is lost every year in the food and beverage industry from production line damage and lost productivity when hoses and wires are damaged by rodents.



1-973-300-9242
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**HEAVY
DUTY**

- **3,500 Cycles***
- **45 Mil Wall Thickness Resists Snagging**
- **Prevents Damage From UV, Gasoline, Engine Chemicals, and Salt**
- **Resists Cuts, Abrasion, and Penetration**
- **Flexible & Economical General Purpose Protection**
- **Install Easily during Production or Repair**
- **Deflects High Pressure Hose Ruptures**

Industrial Hose & Cable Protection for Harsh Environments

The tightly woven Nylon makes DURA FLEX (DFN) the perfect solution for hose & cable protection.

The 45 mil wall thickness will protect cables, hoses, and ropes from weather, sunlight, and abrasion damage.

When installed over uncoated cable or chains, DFN will prevent scraping, chafing, and contact damage to painted or other fragile surfaces.

DFN is resistant to chemicals, UV damage, and rot. It is suitable for continuous outdoor use under all weather conditions.

The flexible sleeving cuts with a scissor and the tight construction slides easily over any application.



Multiple high pressure hoses can be bundled tightly together to protect them from abrasion and weather, and to protect personnel from potential harm due to high pressure rupture.

Nominal Size	Part #	Wall Thickness	Standard Spool Put-Ups			Available Colors	Lbs/100'
			Maxi Coil	Bulk Spool	Shop Spool		
0.71"	DFN0.71BK	.045"	300'	100'	50'	Black (BK)	2.57
0.83"	DFN0.83BK	.045"	300'	100'	50'	Black (BK)	2.58
0.92"	DFN0.92BK	.045"	300'	100'	50'	Black (BK)	3.22
1.00"	DFN1.00BK	.045"	300'	100'	50'	Black (BK)	3.66
1.13"	DFN1.13BK	.045"	300'	100'	50'	Black (BK)	4.18
1.25"	DFN1.25BK	.045"	300'	100'	50'	Black (BK)	4.49
1.34"	DFN1.34BK	.045"	300'	100'	50'	Black (BK)	4.84
1.59"	DFN1.59BK	.045"	300'	100'	50'	Black (BK)	5.37
1.75"	DFN1.75BK	.045"	300'	100'	50'	Black (BK)	6.13
2.07"	DFN2.07BK	.045"	300'	100'	50'	Black (BK)	7.26
2.38"	DFN2.38BK	.045"	300'	100'	50'	Black (BK)	8.28
2.54"	DFN2.54BK	.045"	300'	100'	50'	Black (BK)	8.98
2.86"	DFN2.86BK	.045"	300'	100'	50'	Black (BK)	9.89
3.34"	DFN3.34BK	.045"	300'	50'	25'	Black (BK)	11.59
3.66"	DFN3.66BK	.045"	300'	50'	25'	Black (BK)	12.25

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*Abrasion Resistance

630	950	2,500	3,500	4,400	8,500	13,000
HIGH			EXTREMELY HIGH			

**ISO
6945** **MSHA**





Harsh Environment Protection with Easy On, Easy Off Hook & Loop Closure

DURA WRAP (DWN) is the answer to organizing and controlling wires, cables, and hoses that are subjected to constant and extreme use. The flexible sleeve is made from tightly woven ballistic Nylon with an aggressive, industrial strength hook and loop closure. DURA WRAP is used on wires to keep them together, on hoses and cables to prevent abrasion damage, or on chains to keep them from ruining expensive finished surfaces. Dura Wrap reduces expensive downtime thanks to its easy retro fit installation. No disassembly required. DWN is extremely flexible and easy to install over single or multiple hoses. In the event of a hose rupture, the high strength sleeving helps prevent high pressure fluid from becoming a danger to equipment operators and other personnel.

- **8,500 Cycles***
- **Tightly Woven Ballistic Nylon Construction**
- **Heavy Duty, Oversized Hook & Loop Closure**
- **Repels Liquids**
- **Easy Retro Fit Installation**



DWN is perfect for protecting hydraulic pistons in harsh environments.

Nominal Size	Part #	Wall Thickness	Hook & Loop Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1"	DWN1.00BK	.026"	1"	150'	25'	Black (BK)	5.40
1 1/2"	DWN1.50BK	.026"	1"	150'	25'	Black (BK)	7.00
2"	DWN2.00BK	.026"	1"	150'	25'	Black (BK)	8.20
2 1/2"	DWN2.50BK	.026"	1"	150'	25'	Black (BK)	9.40
3"	DWN3.00BK	.026"	1"	150'	25'	Black (BK)	11.40
3 1/2"	DWN3.50BK	.026"	1"	150'	25'	Black (BK)	12.60
4"	DWN4.00BK	.026"	1"	150'	25'	Black (BK)	14.00
4 1/2"	DWN4.50BK	.026"	1"	150'	25'	Black (BK)	15.40
6"	DWN6.00BK	.026"	1"	150'	25'	Black (BK)	19.20
8"	DWN8.00BK	.026"	1"	150'	25'	Black (BK)	25.00



*Abrasion Resistance

630	950	2,500	3,500	4,400	8,500	13,000
HIGH				EXTREMELY HIGH		

1-973-300-9242
www.techflex.com



HEAVY
DUTY

- 64 Mil Wall Thickness
- 50% Longer Wear Life than the Standard Woven Hose Guard
- Very Flexible

Seamless Braided Design

Techflex DURA BRAID (DBN) is the longest wearing braided abrasion sleeve we have ever made.

Taking advantage of the benefits of our braiding heritage, Dura Braid is more flexible, easier to fit on applications, and has no seam on its axis. The result is a continuous, seamless, and beautiful product that will protect your hoses and wires even better than our original woven Dura Flex product. In side by side comparisons, our new Dura Braid provides 50% more wear life than the industry standard hose protection sleeves. This new technology hose guard wears like iron with help from our new and exclusive polymeric textile infusion process. This is the first product of its kind, it sets a new standard in the hose guard industry.

Hydraulic and pneumatic hose systems are hyper critical to many industrial machines. That's why we take our protection so seriously. Unprotected hose and wire systems cost our economy in many ways such as lost productivity, repairs, and cleanups. Techflex is built on developing and providing solutions to prevent problems. We constantly strive for cost effective solutions and Dura Braid is priced competitively with solutions that offer 1/2 of its abrasion resistance.



Hose Protection is serious business and Dura Braid steps up with more abrasion resistance and higher flexibility than competitive products in its price range.



Slight expansion makes a great fit.



Nominal Size	Part #	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
1/2"	DBN0.50BK	.064"	100'	50'	Black (BK)	3.1
5/8"	DBN0.63BK	.064"	100'	50'	Black (BK)	3.2
3/4"	DBN0.75BK	.064"	100'	50'	Black (BK)	4.0
7/8"	DBN0.88BK	.064"	100'	50'	Black (BK)	4.6
1"	DBN1.00BK	.064"	100'	50'	Black (BK)	4.6
1 1/4"	DBN1.25BK	.064"	100'	50'	Black (BK)	5.7
1 1/2"	DBN1.50BK	.064"	100'	50'	Black (BK)	5.3
2 3/16"	DBN2.19BK	.064"	100'	50'	Black (BK)	8.3

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*Abrasion Resistance

630	950	2,500	3,500	4,400	7,000	13,000
HIGH			EXTREMELY HIGH			

MSHA
Pending.





Most Advanced Hose Protection Solution

DURA FLEX PROFESSIONAL (DPN) provides tough hose protection in two ways. First, per the ISO 6945 spec, DPN's unique 80 mil thick tubular weave design will withstand up to 13,000 abrasion cycles without wearing through the fabric at any location.

Additionally, the exceptionally smooth inner wall provides easy installation and minimizes any internal abrasion problems. The tightly woven Nylon construction is extremely flexible and resists chemical and ultraviolet degradation.

Dura-Flex Professional cuts with a scissor, and installs quickly and easily.

DPN is perfect for industrial and construction applications where adequate protection is needed.

- **13,000 Cycles***
- **Heavy Duty, 80 Mil Wall Thickness**
- **ISO 6945 Certified**
- **Professional Grade Construction**
- **Smooth Inner Wall Prevents Internal Abrasion Damage**
- **Nylon Construction Resists UV, Salt, Chemicals, Vermin, and Rot**



When every second counts Dura Flex Pro is your thickest protection for the longest wear.



Techflex Dura Flex products add increased safety in confined spaces such as mines.



Whatever your hose or application, DPN will provide an extra level of protection from cuts, abrasion and, UV damage.

Nominal Size	Part #	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
0.75"	DPN0.75BK	.08"	100'	50'	Black (BK)	4.43
0.93"	DPN0.93BK	.08"	100'	50'	Black (BK)	5.51
1.13"	DPN1.13BK	.08"	100'	50'	Black (BK)	7.15
1.25"	DPN1.25BK	.08"	100'	50'	Black (BK)	7.44
1.35"	DPN1.35BK	.08"	100'	50'	Black (BK)	8.02
1.43"	DPN1.43BK	.08"	100'	50'	Black (BK)	8.32
1.63"	DPN1.63BK	.08"	100'	50'	Black (BK)	9.53
1.81"	DPN1.81BK	.08"	100'	50'	Black (BK)	10.71
2.19"	DPN2.19BK	.08"	100'	50'	Black (BK)	12.31
2.63"	DPN2.63BK	.08"	100'	50'	Black (BK)	14.83
2.88"	DPN2.88BK	.08"	100'	50'	Black (BK)	17.30
3.13"	DPN3.13BK	.08"	50'	25'	Black (BK)	18.04
3.38"	DPN3.38BK	.08"	50'	25'	Black (BK)	20.11
3.63"	DPN3.63BK	.08"	50'	25'	Black (BK)	21.60
4.00"	DPN4.00BK	.08"	50'	25'	Black (BK)	23.52

*Abrasion Resistance

630	950	2,500	3,500	4,400	8,500	13,000
HIGH			EXTREMELY HIGH			



MSHA **ISO 6945**

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**HEAVY
DUTY**

- **13,500 Cycles***
- **20 Mil Wall Thickness**
- **1,000 Denier Cordura, Double Coated with Proprietary High FR Neoprene**
- **Extreme, Oversized Hook & Loop Closure**
- **Repels Liquids**
- **Prevents Damage From UV, Abrasion, Gasoline, Engine Chemicals, And Salt Water**
- **Resists & Sheds Sparks And Hot Spall**
- **Non-Wicking**

Protection Sleeve with Easy On, Easy Off Hook And Loop Closure

TURTLE WRAP (DWT) is made of 1,000 Denier Cordura and double coated with proprietary high FR Neoprene. This protection sleeve is used for bundling and wrapping hoses and cables. The reusable sleeve features Mil-Spec extreme Hook & Loop closure, which allows installation without disconnecting hoses and can reduce labor time by 70%.

DTW is an excellent choice for weld cable or welding hose that is often dragged across the floor. This material resists sparks and hot spall. Turtle Wrap is also used in subsea maintenance where barnacles, sea life, and salt water can damage hoses. This sleeve is also heavily used on off-shore oil rigs.



With built in flame retardancy your imagination is the limit for things you can protect.



Nominal Size	Part #	Wall Thickness	Hook & Loop Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1"	DWT1.00BK	.02"	1 1/4"	150'	25'	Black (BK)	6.00
1 1/2"	DWT1.50BK	.02"	1 1/4"	150'	25'	Black (BK)	7.20
1 3/4"	DWT1.75BK	.02"	1 1/4"	150'	25'	Black (BK)	9.29
2"	DWT2.00BK	.02"	1 1/4"	150'	25'	Black (BK)	10.41
2 3/8"	DWT2.38BK	.02"	1 1/4"	150'	25'	Black (BK)	11.10
2 1/2"	DWT2.50BK	.02"	1 1/4"	150'	25'	Black (BK)	11.60
3"	DWT3.00BK	.02"	1 1/4"	150'	25'	Black (BK)	13.80
3 1/2"	DWT3.50BK	.02"	1 1/4"	150'	25'	Black (BK)	15.33
4"	DWT4.00BK	.02"	1 1/4"	150'	25'	Black (BK)	16.80
6"	DWT6.00BK	.02"	1 1/4"	150'	25'	Black (BK)	22.00

1-973-300-9242
www.techflex.com

*Abrasion Resistance

630	950	2,500	3,500	4,400	8,500	13,000+
HIGH			EXTREMELY HIGH			





Extreme Heavy Duty Abrasion Sleeve with Easy On, Easy Off Hook & Loop Closure

GATOR WRAP (DWG) is made of proprietary extreme abrasion fabric. This protection sleeve is used for bundling and wrapping hoses and cables. The reusable sleeve features Mil-Spec extreme Hook & Loop closure, which allows installation without disconnecting hoses and can reduce labor time by 70%.

Gator Wrap is an excellent choice for applications requiring protection from the toughest abrasion. This heavy duty abrasion sleeve is used in the oil field industry on frac hoses and on drill rigs, as well as in the timber industry to replace spiral wrap.

- **50,000+ Cycles***
- **50 Mil Wall Thickness**
- **Proprietary Abrasion Fabric**
- **Extreme, Oversized Hook & Loop Closure**
- **Very Puncture & Tear Resistant**
- **Sheds Surface Moisture**
- **Resistant to Water and Petroleum**
- **Excellent Welding Sparks and Spall Resistance**



Currently the strongest abrasion resistant material we make. Gator Wrap is for the extreme environments where hose failure is not an option.

Nominal Size	Part #	Wall Thickness	Hook & Loop Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1 3/8"	DWG1.38BK	.05"	1 1/4"	75'	25'	Black (BK)	15.54
1 3/4"	DWG1.75BK	.05"	1 1/4"	75'	25'	Black (BK)	16.90
2"	DWG2.00BK	.05"	1 1/4"	75'	25'	Black (BK)	18.62
2 1/2"	DWG2.50BK	.05"	1 1/4"	75'	25'	Black (BK)	21.60
3"	DWG3.00BK	.05"	1 1/4"	75'	25'	Black (BK)	24.93
3 1/2"	DWG3.50BK	.05"	1 1/4"	75'	25'	Black (BK)	26.73
4"	DWG4.00BK	.05"	1 1/4"	75'	25'	Black (BK)	29.58
4 1/2"	DWG4.50BK	.05"	1 1/4"	75'	25'	Black (BK)	33.45
5"	DWG5.00BK	.05"	1 1/4"	75'	25'	Black (BK)	36.81
6"	DWG6.00BK	.05"	1 1/4"	75'	25'	Black (BK)	42.35



*Abrasion Resistance

950	2,500	3,500	4,400	8,500	13,000	50,000+
HIGH					EXTREMELY HIGH!!!	

1-973-300-9242
www.techflex.com



- EMI, RFI, ESD Protection
- Grounding Straps
- Engine Dress-Up
- Complies with CID A-A-59569
- Extreme Blowout Protection
- Expands for Easy Installation
- Cut and Abrasion Resistant

Tinned Copper Sleeve for Shielding, Grounding, and Decoration

Our skill with braided sleeving extends to many materials including metal braid for a variety of applications. Our FLEXO TINNED COPPER Metal Braid (MBN) is perfect for shielding on harnesses and cables, and wire conforms to ASTM-B 33.

High end automotive applications have always used braided metal for secure and efficient grounding applications. The material is also great for hose covering on hot rods and motorcycles.



Flexo Metal Braids are an attractive and practical part of high end automotive projects for protection and durability.



Flexo Tinned Copper and Tinned Copper Flat are useful parts of grounding solutions worldwide.

Nominal Size	Part #	AWG of Ends	Carriers	Wires per Carrier	Current Capacity Amps	Standard Spool Put-Ups		Available Colors	Lbs/ 100'
						Bulk Spool	Shop Spool		
1/16"	MBN0.06SV	36	24	2	11	250'	100'	Silver (SV)	0.40
7/64"	MBN0.11SV	36	24	4	19	250'	100'	Silver (SV)	0.80
1/8"	MBN0.13SV	36	24	5	25	250'	100'	Silver (SV)	1.30
5/32"	MBN0.16SV	36	24	10	40	250'	100'	Silver (SV)	2.10
13/64"	MBN0.20SV	32	24	5	46	250'	100'	Silver (SV)	2.50
1/4"	MBN0.25SV	36	24	16	53	250'	100'	Silver (SV)	2.20
3/8"	MBN0.38SV	36	48	8	53	250'	100'	Silver (SV)	3.30
1/2"	MBN0.50SV	36	48	11	62	100'	50'	Silver (SV)	3.50
*5/8"	MBN0.63SV	34	48	8	64	100'	50'	Silver (SV)	3.60
25/32"	MBN0.78SV	36	48	18	88	100'	50'	Silver (SV)	7.35
7/8"	MBN0.88SV	30	48	7	100	100'	50'	Silver (SV)	10.30
1"	MBN1.00SV	30	48	8	120	100'	50'	Silver (SV)	13.15
1 1/8"	MBN1.13SV	30	48	9	130	100'	50'	Silver (SV)	13.80
*1 1/4"	MBN1.25SV	30	48	10	145	100'	50'	Silver (SV)	16.50
1 3/8"	MBN1.38SV	30	48	11	150	100'	50'	Silver (SV)	16.90
1 1/2"	MBN1.50SV	30	48	12	165	100'	50'	Silver (SV)	18.40
2"	MBN2.00SV	30	48	14	180	100'	50'	Silver (SV)	22.70
*2 1/4"	MBN2.25SV	30	48	16	190	100'	50'	Silver (SV)	23.60

*Not on Spec - CID A-A-59569 (formerly Mil Spec QQB-575).





Tinned Copper Sleeve - Flat Construction

Like the tubular construction of our Flexo Tinned Copper, TINNED COPPER FLAT (MFN) provides excellent shielding efficiency and easy radial termination. Both durable and flexible, it can be used to create a low resistance point-to-point ground strap. The braid is also an ideal solution to providing additional shielding to cables in retrofit applications.

- Wire Meets **ASTM-B 33**
- Complies with **CID A-A-59569**
- **Point-to-Point Ground Path**

Nominal Size	Part #	AWG of Ends	Carriers	Wires per Carrier	Current Capacity Amps	Standard Spool Put-Ups		Available Colors	Lbs/100'
						Bulk Spool	Shop Spool		
1/8"	MFN0.13SV	36	24	3	16	250'	100'	Silver (SV)	0.70
3/16"	MFN0.19SV	36	24	5	25	250'	100'	Silver (SV)	1.10
1/4"	MFN0.25SV	36	24	10	40	250'	100'	Silver (SV)	2.00
*3/8"	MFN0.38SV	36	48	6	40	250'	100'	Silver (SV)	2.40
5/8"	MFN0.63SV	36	48	8	53	100'	50'	Silver (SV)	3.60
3/4"	MFN0.75SV	36	48	18	88	100'	50'	Silver (SV)	7.70
*1"	MFN1.00SV	36	48	18	85	100'	50'	Silver (SV)	7.90
1 3/8"	MFN1.38SV	30	48	7	100	100'	50'	Silver (SV)	12.00
1 1/2"	MFN1.50SV	30	48	11	145	100'	50'	Silver (SV)	18.20
*2"	MFN2.00SV	30	48	28	255	100'	50'	Silver (SV)	46.10
*3"	MFN3.00SV	30	48	47	390	50'	25'	Silver (SV)	77.70

*Not on Spec - CID A-A-59569 (formerly Mil Spec QQB-575).



Bare Copper Braid for a Wide Variety of Applications

Techflex high purity COPPER SLEEVE (MBC) is a 100% copper braid for grounding, shielding, and many other unique projects. Our copper series of metal braids are pure metal with no fillers or coating to provide many years of continuous use. Our braid is suitable for hoses, wires, and other lines on a wide variety of applications. Techflex Bare Copper braid will provide high flexibility and excellent current transmission for your demanding uses.



Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/8"	MBC0.13CP	.015"	1/8"	1/4"	250'	25'	Copper (CP)	0.90
1/4"	MBC0.25CP	.025"	1/4"	3/8"	100'	25'	Copper (CP)	3.00
3/8"	MBC0.38CP	.018"	3/8"	3/4"	100'	25'	Copper (CP)	3.10
1/2"	MBC0.50CP	.020"	1/2"	1"	100'	25'	Copper (CP)	4.10





- **Virtually Indestructible 304 Stainless Steel**
- **Won't Discolor or Rust**



Stainless Steel sleeving is used in applications such as expansion joints, where constant movement and high temperatures require a flexible, indestructible covering.



Braided Stainless Steel, Pre-Rounded for Installation Ease

STAINLESS STEEL (SSN) braid looks great in any application and is as strong as steel. Now, you can take any stock or custom hose, slip a length of Flexo Stainless over it, hide the cut ends under your clamps and have the same look and protection as custom overbraided hoses at a fraction of the cost.

Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/2"	SSN0.50SV	.025"	1/4"	5/8"	100'	25'	Silver (SV)	4.00
5/8"	SSN0.63SV	.025"	3/8"	3/4"	100'	25'	Silver (SV)	5.00
3/4"	SSN0.75SV	.025"	1/2"	1"	100'	25'	Silver (SV)	5.00
1"	SSN1.00SV	.025"	3/4"	1 1/4"	100'	25'	Silver (SV)	11.00
1 1/4"	SSN1.25SV	.035"	1"	1 1/2"	100'	25'	Silver (SV)	19.00
1 3/4"	SSN1.75SV	.040"	1 1/2"	2 1/4"	100'	25'	Silver (SV)	31.00



Brass Beauty

Techflex FLEXO BRASS (MBB) can be a useful and beautiful part of your next project. The decorative features of brass are obvious, but many people don't know that brass is actually an alloy of copper and zinc. Our Brass is designed for both looks and functionality and can be adapted to create custom hoses and brake lines. Designers and engineers may also use our brass braid for its natural antimicrobial and germicidal properties. Contact with our Brass Braid can kill harmful microorganisms within minutes. Brass Braid has been used in "steampunk" creations of all kinds to bring the hoses of the industrial revolution back to life today.



Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/8"	MBB0.13BRS	.015"	1/8"	1/4"	250'	25'	Brass (BRS)	0.90
1/4"	MBB0.25BRS	.027"	1/4"	3/8"	100'	25'	Brass (BRS)	3.00
3/8"	MBB0.38BRS	.015"	3/8"	3/4"	100'	25'	Brass (BRS)	3.00
1/2"	MBB0.50BRS	.020"	1/2"	1"	100'	25'	Brass (BRS)	4.20

Contact your account representative for additional size information.





Braided Stainless Steel XC, Full Coverage On Any Application

Nothing protects hoses from wear and blowout quite like real Stainless Steel braid. It looks great in any application and is as strong as, well, steel. Custom hoses overbraided with stainless steel are expensive, selections are often limited, and production and delivery times can be an issue.

Our new full coverage Stainless Steel sleeving, FLEXO STAINLESS XC (SSL), provides the same look and protection as custom built SS hoses at a fraction of the cost. Braided from 304 Stainless Steel filaments, Flexo SS XC resists all common automotive chemicals, salt water, and it won't discolor or rust while providing an extreme level of abrasion protection on any application.

- **Virtually Indestructible 304 Stainless Steel XC**
- **Won't Discolor or Rust**
- **Cuts with Shears or Serrated Scissors**
- **Improves Burst Strength of Hoses**



Stainless Steel XC gives full coverage on any application and slides onto hoses for that custom look.



Besides extreme toughness, braided Stainless Steel XC makes a decisive design statement, as in this line of high-end writing instruments from Porsche Design.

Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/8"	SSL0.13SV	.013"	1/16"	11/32"	250'	100'	Silver (SV)	1.20
1/4"	SSL0.25SV	.013"	3/16"	13/32"	250'	100'	Silver (SV)	2.20
3/8"	SSL0.38SV	.013"	1/4"	5/8"	250'	100'	Silver (SV)	2.54
1/2"	SSL0.50SV	.013"	3/8"	3/4"	100'	50'	Silver (SV)	3.15
3/4"	SSL0.75SV	.013"	1/2"	1 1/4"	100'	50'	Silver (SV)	6.90
1"	SSL1.00SV	.025"	5/8"	1 5/16"	100'	50'	Silver (SV)	9.78
1 1/4"	SSL1.25SV	.025"	3/4"	1 3/4"	100'	50'	Silver (SV)	13.70
1 1/2"	SSL1.50SV	.025"	1"	2 1/8"	100'	50'	Silver (SV)	16.60



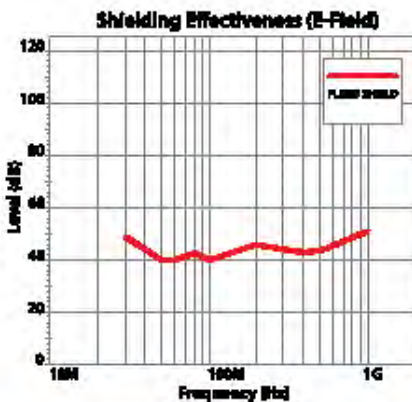


- **Excellent EMI Shielding** (1 MHz to 1 GHz)
- **Flame Retardant**
- **Easy to Install**
- **Cut and Abrasion Resistant**
- **Extremely Flexible and Lightweight**
- **Temperature Range -40°F to 302°F**
- **Cuts Easily with Scissors**

Light Weight Shielded Expandable Sleeving

FLEXO SHIELD (FSN) is a high performance EMI (Electromagnetic Interference) shield, braided expandable sleeve. Flexo Shield is cut and abrasion resistant, flexible and lightweight. With its high temperature Aramid fiber core and special construction, Flexo Shield can expand and contract to create a perfect fit. Flexo Shield braided fibers create a sleeve that provides good EMI protection, high coverage, and easy installation.

Techflex Flexo Shield is great for applications where light weight and high performance are needed. Such applications may include computer systems, electronic office equipment, medical electronics, communication systems and many more. The product is intended for high flex, high temperature, and environmentally tough conditions, therefore making it appropriate for several aerospace applications.



Flexo Shield can provide end-to-end shielding solution on your application.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
*1/8"	FSN0.13SV	1/16"	1/4"	328'	164'	Silver (SV)	0.74
*3/8"	FSN0.38SV	1/4"	1/2"	328'	164'	Silver (SV)	1.38
*1/2"	FSN0.50SV	3/8"	3/4"	328'	164'	Silver (SV)	2.09
*3/4"	FSN0.75SV	1/2"	1"	328'	164'	Silver (SV)	2.80
1"	FSN1.00SV	3/4"	1 1/4"	328'	164'	Silver (SV)	2.90
1 1/4"	FSN1.25SV	1"	1 1/2"	328'	164'	Silver (SV)	3.40
1 1/2"	FSN1.50SV	1 1/4"	1 3/4"	328'	164'	Silver (SV)	3.90

*VW-1 sizes 1/8" - 3/4"



Conductive Carbon Infused Nylon for Static Protection and Shielding

FLEXO ANTI-STAT (CNN) is braided from 11 mil carbonized Nylon monofilament yarn. Flexo Anti-Stat is designed to protect sensitive wiring from abrasion while shielding it from high frequency noise. Many successful applications have utilized this sleeving for maintaining clean video signals, interference filtering in pro sound environments, and RF filtering on power cables and outputs. CNN is also useful in static sensitive environments.

Flexo Anti-Stat utilizes a patented carbonization process which infuses our braided sleeving with a microscopic carbon compound that is virtually indistinguishable from the base material. The result is a strong, long lasting jacket that is ready for the most sensitive applications.

- **ESD Management Solution**
- **EMI, RFI Protection**
- **Economical and Easy to Install**
- **Cut & Abrasion Resistant**
- **Expands up to 150%**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**



Clean signals without excessive noise can be achieved with properly isolated cables and wires.

"Techflex assures maximum protection for delicate video and data lines."

Tim Daly - Emmy Award Winning Engineer
InterTest - www.intertestinc.com

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	CNN0.13BK	3/32"	1/4"	1,000'	225'	Black (BK)	0.35
1/4"	CNN0.25BK	1/8"	7/16"	1,000'	200'	Black (BK)	0.40
3/8"	CNN0.38BK	3/16"	5/8"	500'	125'	Black (BK)	0.60
1/2"	CNN0.50BK	1/4"	3/4"	500'	100'	Black (BK)	0.68
5/8"	CNN0.63BK	3/8"	1"	500'	100'	Black (BK)	0.96
3/4"	CNN0.75BK	1/2"	1 1/4"	250'	75'	Black (BK)	1.00
1"	CNN1.00BK	5/8"	1 5/8"	250'	65'	Black (BK)	1.20
1 1/4"	CNN1.25BK	3/4"	1 3/4"	250'	50'	Black (BK)	1.65
1 1/2"	CNN1.50BK	1"	2 1/2"	200'	40'	Black (BK)	2.20





Clean Cut FR, Scissor Cut for Field Installation, Will Not Support Combustion

- **VW-1, Mil-202 Approved**
- **Cut and Abrasion Resistant**
- **Expands for Ease of Installation**
- **Halogen Free**
- **Temperature Range -94°F to 257°F**
- **Melt Temp. 482°F**

CLEAN CUT FLAME RETARDANT (CCF) has all of the same qualities that make our standard CC so easy to cut and install, with the added advantage of a flame inhibitor to provide an extra level of safety in certain applications.

Under normal conditions, Clean Cut FR will quickly self-extinguish and minimize flame spread and incidental damage to surrounding components.

The combination of flame retardance, ease of installation, and nearly complete coverage makes Clean Cut FR an ideal solution for many industrial and advanced engineering applications.



Clean Cut FR is a common harness material for both military and civilian aircraft.



Pro AV installers can incorporate CCF into cabling designs for concert, studio, and nightclub installations.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	CCF0.13	1/8"	1/4"	1,000'	100'	TW & TB	0.40
1/4"	CCF0.25	5/32"	7/16"	1,000'	100'	TW & TB	0.46
3/8"	CCF0.38	3/16"	5/8"	500'	100'	TW & TB	0.74
1/2"	CCF0.50	1/4"	3/4"	500'	100'	TW & TB	0.82
3/4"	CCF0.75	5/8"	1"	250'	75'	TW & TB	1.11
1"	CCF1.00	3/4"	1 3/16"	250'	50'	TW & TB	1.24
1 1/4"	CCF1.25	1"	1 1/2"	250'	50'	TW & TB	1.56
1 1/2"	CCF1.50	1 1/4"	2"	250'	50'	TW & TB	1.85



Flexo Flame Retardant, Economical Sleeving Solution

FLEXO PET FLAME RETARDANT (FRN) sleeving is the perfect choice for electronic and high tech applications where flame retardance and durability are primary concerns. Ease of installation makes Flexo FR an efficient choice for long runs of wire or cable.

The addition of an organic combustion inhibitor to our standard polyethylene terephthalate gives Flexo FR an Underwriters Lab and CSA flame resistance rating of VW-1.

- **VW-1 Approved**
- **Mil-202, FAR 25, FMVSS 302**
- **Cut and Abrasion Resistant**
- **Expands up to 150%**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**
- **Temperature Range -94°F to 257°F**
- **Melt Temp. 482°F**



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	FRN0.13	3/32"	1/4"	1,000'	225'	BK,TW,GW,TB,YS,OS,SP	0.16
1/4"	FRN0.25	1/8"	7/16"	1,000'	200'	BK,TW,GW,TB,YS,OS,SP	0.24
3/8"	FRN0.38	3/16"	1/2"	500'	125'	BK,TW,GW,TB,YS,OS,SP	0.57
1/2"	FRN0.50	1/4"	3/4"	500'	100'	BK,TW,GW,TB,YS,OS,SP	0.72
3/4"	FRN0.75	1/2"	1 1/4"	250'	75'	BK,TW,GW,TB,YS,OS,SP	1.07
1"	FRN1.00	5/8"	1 5/8"	250'	65'	BK,TW,GW,TB,YS,OS,SP	1.34
1 1/4"	FRN1.25	3/4"	1 3/4"	250'	50'	BK,TW,GW,TB,YS,OS,SP	1.60
1 1/2"	FRN1.50	1"	2 1/8"	200'	40'	BK,TW,GW,TB,YS,OS,SP	1.96
1 3/4"	FRN1.75	1 1/4"	2 3/4"	200'	30'	BK,TW,GW,TB,YS,OS,SP	2.70
2"	FRN2.00	1 1/2"	3 1/2"	200'	50'	BK,TW,GW,TB,YS,OS,SP	3.30
2 1/2"	FRN2.50	1 3/4"	3 5/8"	200'	50'	BK,TW,GW,TB,YS,OS,SP	3.80
3"	FRN3.00	2 1/2"	4 3/4"	100'	50'	BK,TW,GW,TB,YS,OS,SP	4.00
3 End Construction							
1/4"	FR30.25TB	1/8"	3/8"	1,000'	200'	TB, GW, & TW	0.39





- High Coverage, Self-Wrapping Design
- UL and VW-1
- Passes Smoke Density Test ASTM E-662
- Passes Surface Flammability Test ASTM E-162
- Passes Smoke Toxicity Test SMP 800-C
- Melt Temp. 482°F

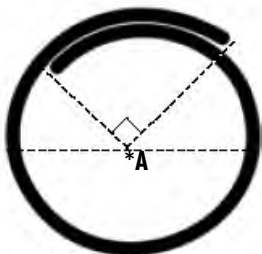
Woven, Flame Retardant Split Tubular Harness Wrap

F6 WOVEN WRAP FR (F6V) is a VW-1 rated version of our industry recognized F6 Woven Wrap, with the added advantage of a flame inhibitor to provide an extra level of safety. It utilizes many of the same characteristics as our original F6 split braided sleeving including the easy wrap around design and the extra overlap to ensure complete protection of important electronic communication and power systems.

The new woven construction provides superior elastic flexibility with unbeatable coverage over any harness assembly. Through a unique process, the blend of monofilament and multifilament polyester fibers are formed into a sleeving with memory that causes the sleeve to self-close, and also snap back when opened. The combination of flame retardance, ease of installation, and complete coverage makes F6 Woven FR an ideal solution for many commercial and aerospace applications.



F6 Woven FR is designed to defend and contain wires in difficult environments.



The engineered overlap allows ideal flexibility without exposing wires and cables.

Nominal Size	Part #	Wall Thickness	Standard Spool Put-Ups			Available Colors	Overlap *A	Lbs/ 100'
			Bulk Box	Box A	Box B			
3/16"	F6V0.19TB	.027"	3,000'	500'	100'	Black w/White Tracer (TB)	51%	0.80
3/8"	F6V0.38TB	.027"	2,000'	250'	100'	Black w/White Tracer (TB)	41%	1.20
1/2"	F6V0.50TB	.027"	1,500'	200'	75'	Black w/White Tracer (TB)	35%	1.60
3/4"	F6V0.75TB	.027"	1,000'	150'	50'	Black w/White Tracer (TB)	28%	2.50
1"	F6V1.00TB	.027"	460'	100'	50'	Black w/White Tracer (TB)	26%	3.20
1 1/4"	F6V1.25TB	.027"	330'	75'	25'	Black w/White Tracer (TB)	25%	3.70
1 1/2"	F6V1.50TB	.027"	260'	50'	25'	Black w/White Tracer (TB)	23%	4.80





Flexible, Semi-Rigid Split Sleeving Will Not Support Combustion

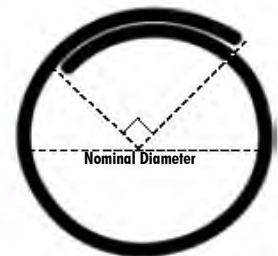
Flame spread is a vital safety consideration in applications as diverse as home built aircraft wiring and safely managing sound & lighting cables at clubs, concerts, and theaters. To address these issues, and to provide unequalled flexibility and access, we have developed this unique sleeving product.

Self-extinguishing F6 FLAME RETARDANT (F6F) fully complies with UL standard VW-1. The addition of an organic flame inhibitor to our triaxially braided F6 split sleeving provides the perfect solution to a wide range of cable management needs.

Easy slip over installation, complete access along the entire run, economy, durability, and UL certified flame retardance make F6F ideal when the goal is to manage wires and cables safely and effectively.



- **VW-1, FAR 25**
- **Wraparound Without Fasteners**
- **Temperature Range -94°F to 257°F**
- **Melt Temp. 446°F**



The large overlap allows easy installation over splices and inline connectors without exposing wires and cables.



Accepted for use by major aircraft manufacturers.

Nominal Size	Part #	Wall Thickness	Standard Spool Put-Ups			Available Colors	Lbs/100'
			Bulk Box	Box A	Box B		
1/8"	F6F0.13TB	.024"	10,000'	400'	100'	Black w/White Tracer (TB)	0.20
1/4"	F6F0.25TB	.025"	3,000'	200'	100'	Black w/White Tracer (TB)	0.60
3/8"	F6F0.38TB	.025"	1,200'	150'	75'	Black w/White Tracer (TB)	1.20
1/2"	F6F0.50TB	.025"	800'	150'	75'	Black w/White Tracer (TB)	1.40
3/4"	F6F0.75TB	.025"	500'	100'	50'	Black w/White Tracer (TB)	1.60
1"	F6F1.00TB	.038"	400'	100'	50'	Black w/White Tracer (TB)	2.00
1 1/4"	F6F1.25TB	.038"	250'	75'	25'	Black w/White Tracer (TB)	2.40
1 1/2"	F6F1.50TB	.038"	200'	75'	25'	Black w/White Tracer (TB)	2.70
2"	F6F2.00TB	.038"	200'	50'	25'	Black w/White Tracer (TB)	3.60





- **VW-1, Mil-202, Approved**
- **Economical and Easy to Install**
- **Cut and Abrasion Resistant**
- **Hook and Loop Closure For Easy and Repeatable Access**
- **Temperature Range -94°F to 257°F**
- **Melt Temp. 482°F**

Easy On, Easy Off Access Will Not Support Combustion

FLAME RETARDANT FLEXO WRAP (FWF) provides the same hook and loop wire management flexibility as our standard Flexo Wrap along with the added safety feature of an organic flame inhibitor to provide an additional level of security.

FWF is a safe, economical solution for a wide range of cable management applications where moderate levels of flame protection are needed.



FLEXO WRAP FR is designed for quick and easy management of wire, cable, and hose assemblies. Just separate the hook and loop fasteners along the edge of the material...

and slip the entire length of FWF around or under your harness or component assembly. The wide expandability range allows FWF to easily fit around...

odd-shaped connectors and gently constrict around the diameter of your wires. When the FWF is in place, simply seal the hook and loop along the edges.

Nominal Size	Part #	Hook & Loop Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
1/2"	FWF0.50TB	1/4"	100'	20'	Black w/White Tracer (TB)	1.30
3/4"	FWF0.75TB	5/8"	100'	15'	Black w/White Tracer (TB)	1.80
1 1/4"	FWF1.25TB	5/8"	100'	12'	Black w/White Tracer (TB)	2.30
2"	FWF2.00TB	5/8"	100'	10'	Black w/White Tracer (TB)	3.20
2 1/2"	FXF2.50TB	5/8"	100'	10'	Black w/White Tracer (TB)	3.75

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Tight Braid For Fuller Coverage

FLEXO TIGHT WEAVE FLAME RETARDANT sleeving was developed by and for aircraft manufacturers as a replacement for the Standard Grade FR. This sleeving material is constructed from tightly braided 9 mil flame retardant monofilament. The result is fuller coverage over wire harnesses. This allows for increased abrasion protection, a critical issue in the aviation industry.

The 9 mil monofilament is used instead of 10 mil in order to lessen the additional weight that results when the monofilament is tightly braided into sleeving material. We manufacture additional sizes to accommodate various wire harnesses up to 3" in diameter.

- **VW-1, Mil-202, FAR 25 Approved**
- **Resists Gasoline and Engine Chemicals**
- **Temperature Range -94°F to 257°F**
- **Melt Temp. 482°F**



Meets material specs for major airlines.



Lighter weight than standard tight weaves.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/ 100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	F9T0.13TB	1/16"	7/32"	1,000'	225'	TW & TB	0.27
1/4"	F9T0.25TB	9/64"	13/32"	1,000'	200'	TW & TB	0.32
5/16"	F9T0.31TB	3/16"	7/16"	500'	125'	TW & TB	0.48
1/2"	F9T0.50TB	9/32"	5/8"	500'	100'	TW & TB	0.60
9/16"	F9T0.56TB	3/8"	5/8"	500'	100'	TW & TB	0.63
3/4"	F9T0.75TB	1/2"	1"	500'	75'	TW & TB	0.97
1"	F9T1.00TB	5/8"	1 1/4"	250'	65'	TW & TB	1.26
1 1/4"	F9T1.25TB	3/4"	1 3/4"	250'	50'	TW & TB	2.03
1 1/2"	F9T1.50TB	1"	1 7/8"	250'	40'	TW & TB	2.32
1 3/4"	F9T1.75TB	1 5/16"	2 3/16"	250'	30'	TW & TB	2.61
2"	F9T2.00TB	1 7/16"	2 3/8"	200'	50'	TW & TB	3.02
2 1/4"	F9T2.25TB	1 3/4"	2 11/16"	200'	50'	TW & TB	3.04
2 1/2"	F9T2.50TB	1 7/8"	3"	200'	50'	TW & TB	3.69





- Meets **UL 2024**
- **VW-1, FAR 25 Approved**
- **Easy to Install**
- **Cut and Abrasion Resistant**
- **Expands up to 150%**
- **Resists Gasoline and Engine Chemicals**
- **Temperature Range -103°F to 302°F**
- **Melt Temp. 482°F**

Very Low Outgassing, Self-Extinguishing UL-2024 Plenum Rated Sleeving

FLEXO HALAR® (HTN) self-extinguishing sleeving is used where flammability, high temperature endurance, and low outgassing are primary concerns. Flexo Halar® is braided from 11 mil ethylene chlorotrifluoroethylene (ECTFE) copolymer monofilament. Because of its low flame spread and smoke generation properties, HTN meets UL 2024 and NFPA 262 plenum specifications, UL flame resistance rating of VW-1, and exceeds automotive industry requirements of FMVSS 302, as well as aviation industry requirements of FAR 25.

HTN resists a wide range of corrosive chemicals and organic solvents, including strong acids, chlorine and aqueous caustics. HALAR® ECTFE also maintains useful properties on exposure to cobalt 60 radiation at doses up to 200 megarads.



Halar's low outgassing, as well as its heat, chemical, and radiation properties, make it ideal for use as a component in technologically advanced applications.



UL 2024 supersedes UL 910 standard for Cable Management products.



Many telecommunications companies rely on Flexo Halar® for their plenum wiring systems.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	HTN0.13	3/32"	1/4"	1,000'	225'	TW & TB	0.25
1/4"	HTN0.25	1/8"	7/16"	1,000'	200'	TW & TB	0.38
3/8"	HTN0.38	3/16"	5/8"	500'	125'	TW & TB	0.86
1/2"	HTN0.50	1/4"	3/4"	500'	100'	TW & TB	1.10
3/4"	HTN0.75	1/2"	1 1/4"	250'	75'	TW & TB	1.70
1"	HTN1.00	5/8"	1 5/8"	250'	65'	TW & TB	2.20
1 1/4"	HTN1.25	3/4"	1 3/4"	250'	50'	TW & TB	2.60
1 3/4"	HTN1.75	1 1/4"	2 3/4"	200'	30'	TW & TB	4.40
2"	HTN2.00	1 1/2"	3 1/2"	200'	50'	TW & TB	4.60

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Halar® is a registered trademark of the Solvay Solexis Corporation.



VW-1 Plenum FAR-25





High Temp Stable, Abrasion Resistant, Low Outgassing

FLEXO PFA (TFN) expandable sleeving is ideal in applications where flame, chemical, and very high temperature resistance are significant considerations. Our Flexo PFA sleeving meets current aviation/aerospace specifications.

The high temperature properties of TFN make it the ideal choice for aerospace, military, and high-tech applications where thermal stability and low outgassing are critical. TFN is suitable for plenum applications. TFN is braided from 16 mil perfluoroalkoxy (PFA) polymer monofilament.

Flexo PFA is designed for applications up to 550°F where low flammability and chemical resistance are needed. Its wide operating temperature, however, allows it to retain flexibility even at low temperatures. Flexo PFA is now available in BLACK, in addition to the standard NATURAL.

- **Plenum Suitable**
- **FAR 25 Approved**
- **Cut and Abrasion Resistant**
- **Expands up to 150%**
- **Resists Gasoline and Other Chemicals**
- **Temperature Range -94°F to 550°F**
- **Melt Temp. 590°F**

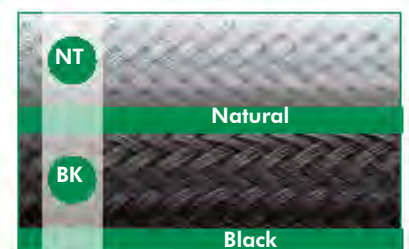


Cabling in passenger area plenums aboard aircraft are a perfect application for Flexo PFA's low outgassing properties.



High temperature resistance allows Flexo PFA sleeving to function in high-temp environments.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	TFN0.13	3/32"	1/4"	1,000'	225'	NT & BK	0.50
1/4"	TFN0.25	3/16"	3/8"	1,000'	200'	NT & BK	0.68
3/8"	TFN0.38	1/4"	3/4"	500'	125'	NT & BK	2.20
1/2"	TFN0.50	3/8"	7/8"	500'	100'	NT & BK	2.60
3/4"	TFN0.75	5/8"	1 1/4"	250'	75'	NT & BK	2.90
1 1/4"	TFN1.25	1 1/8"	1 1/2"	200'	50'	NT & BK	4.80
1 3/4"	TFN1.75	1 3/8"	1 3/4"	200'	50'	NT & BK	5.50
2"	TFN2.00	1 11/16"	2 1/8"	200'	25'	NT & BK	6.40





- FAR 25 Approved
- Ultra Light Weight
- Highly Abrasion Resistant
- Expands up to 150%
- Resists Acids, Bases, Solvents, and Fuels
- Temperature Range -94°F to 392°F
- Melt Temp. 545°F

Ultra Lightweight, High-Temp Tolerant and Virtually Impervious to Chemical Degradation

FLEXO PPS (RYN) expandable sleeving is used in high temperature, flame resistant wire harnesses and cable assemblies. Flexo PPS is an extremely lightweight sleeving, resistant to high temperatures, and virtually impervious to solvents. Flexo PPS is ideal for aerospace, telecom, and military applications. It meets many engineering goals including: chemical resistance, high temperature stability, zero moisture absorption, excellent dimensional stability, and ultra-low wear.

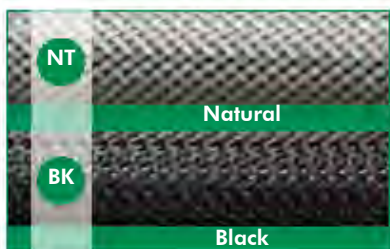
Flexo PPS is braided from 8 mil flame resistant PolyPhenylene Sulfide (PPS) monofilament fibers. Flexo PPS offers the broadest resistance to chemicals of any advanced engineering plastic. The material resists all known solvents below 392°F and is inert to steam, strong bases, fuels and, acids.



A true aerospace material, Flexo PPS is ideal in satellite applications where weight and stability are of primary importance.



Flame resistance, strength, and low weight make Flexo PPS sleeving the first choice in high-tech aeronautic design specifications.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	RYN0.13	3/32"	1/4"	1,000'	225'	NT & BK	0.21
1/4"	RYN0.25	1/8"	3/8"	1,000'	200'	NT & BK	0.36
1/2"	RYN0.50	1/4"	3/4"	500'	100'	NT & BK	0.59
3/4"	RYN0.75	1/2"	1 1/4"	250'	75'	NT & BK	0.75
1 1/4"	RYN1.25	3/4"	1 3/4"	250'	50'	NT & BK	1.30
1 3/4"	RYN1.75	1 1/4"	2 1/2"	200'	50'	NT & BK	1.60
2"	RYN2.00	1 5/16"	2 3/8"	200'	50'	NT & BK	2.00
10 Mil Construction							
1/8"	RZH0.13NT	1/8"	9/32"	1,000'	225'	Natural (NT)	0.26





Secures performance of sensitive items in challenging environments

Similar to PPS, but with a substantially expanded operating temperature range, FLEXO PEEK® (PKN) (PolyEtherEther-Ketone) is a high performance advanced polymer with outstanding physical properties. PEEK® is inherently flame retardant, with a V-0 flammability rating, will withstand continuous use in superheated water or steam up to 500°F, and resists most acids, solvents, and bases.

Flexo PEEK® is FDA approved as a food contact product, resists damage from radiation, and will continue to perform in UHV (Ultra High Vacuum) environments. Flexo PEEK® is extensively used in the aerospace, automotive, teletronic, and chemical process industries, and is considered an advanced biomaterial used in medical implants and other biomedical applications. Flexo PEEK® will withstand thousands of sterilization cycles without damage or degradation.

Flexo PEEK® expandable sleeving is tightly braided from 10 mil filaments of pure, unfilled PEEK® polymer. The sleeving expands to fit over connectors and splices, and provides full coverage over wires hoses and cable bundles in advanced engineering applications.



- **High Chemical & Insoluble Resistance in Common Solvents**
- **Very Light Weight**
- **Excellent Strength in High Temperature & Harsh Environments**
- **Low Outgassing**
- **V-O Flammability Rating**
- **Non-Corrosive and Non-Conductive**



PEEK® is one of industry's most chemically resistant plastics making it perfect for many challenging environments.



Exceptional chemical resistance to organics, acids and bases.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	PKN0.13BK	1/16"	5/16"	1,000'	225'	Black (BK)	0.16
1/4"	PKN0.25BK	7/64"	9/16"	1,000'	200'	Black (BK)	0.19
3/8"	PKN0.38BK	5/32"	5/8"	500'	125'	Black (BK)	0.31
1/2"	PKN0.50BK	3/16"	15/16"	500'	100'	Black (BK)	0.44
5/8"	PKN0.63BK	1/4"	1 1/4"	500'	100'	Black (BK)	0.51
3/4"	PKN0.75BK	3/8"	1 3/8"	250'	75'	Black (BK)	0.64

Call for more sizes availability.



PEEK® is a registered trademark of the Victrex Corporation.



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- High Cut Resistance
- Light Weight
- Resists Acids, Bases, Solvents, and Fuels
- High Tensile Strength
- Temperature Range -274°F to 320°F
- Will Not Melt, Burn, or Support Combustion

Soft, Lightweight, and Extraordinarily Strong

Extra heavy duty, tightly woven ARAMID ARMOR (KVX) is braided from aramid fibers, soft and pliable, but with 5 times strength of steel on equal-weight basis. Aramid Armor is perfect for bundling and protecting vulnerable components from the most extreme environmental conditions. The aramid fibers provide durability, pliability, and extraordinary tensile strength.

It will not melt, burn, or support combustion. The inherent strength and heat resistance of Aramid Armor provides performance that can not be worn or aged away. Typical uses include aerospace, marine, and automotive industry applications.

Aramid Armor sleeving is available in Yellow.



Aramid Armor is designed to keep wires and hoses protected in the harshest situations.



When hose and wire protection is critical you can depend on Techflex to find the right solution.



Whenever your sleeving needs superior cut protection, the cut and fire resistant properties of Aramid Armor will fill that need.

Premium Flexo Aramid Shears
KVS0.00SV
(See pg. 99)



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	KVX0.25YL	1/4"	3/8"	500'	50'	Yellow (YL)	1.69
1/2"	KVX0.50YL	1/2"	1"	250'	50'	Yellow (YL)	3.22
1"	KVX1.00YL	1"	1 3/4"	200'	25'	Yellow (YL)	4.76
1 1/4"	KVX1.25YL	1 1/4"	2"	125'	25'	Yellow (YL)	5.88

*Please note that Aramid Armor is degraded by ultraviolet light. Do not store in direct sunlight. Fluorescent lighting will cause discoloration, but will not affect fiber mechanical properties.



Stronger than Steel, Soft & Pliable

ARAMID FLEXO KV (KVN) is a soft, flexible sleeving that's perfect for bundling and protecting vulnerable components from the most extreme environmental conditions. Aramid Flexo KV is braided from aramid fibers and has durability, pliability, and extraordinary tensile strength. Aramid Flexo KV fibers are up to 20 times stronger than steel fibers of equal diameter. KVN has excellent thermal stability, permitting long-term, continuous use at temperatures as low as -274°F and as high as 320°F. Short term exposure up to 572°F can be tolerated. KVN does not melt or support combustion. KVN sleeving provides extreme strength and durability, yet is light-weight and easy to install.

- **Up to 20 Times Stronger Than Steel**
- **Will Not Melt, Burn, or Support Combustion**
- **Stays Soft, Flexible, & Pliable Throughout -274°F to 320°F**

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	KVN0.25YL	1/8"	5/16"	500'	50'	Yellow (YL)	0.30
1/2"	KVN0.50YL	1/4"	5/8"	250'	50'	Yellow (YL)	0.80
3/4"	KVN0.75YL	1/2"	7/8"	250'	50'	Yellow (YL)	1.20
1"	KVN1.00YL	3/4"	1 1/4"	200'	25'	Yellow (YL)	1.92
1 1/4"	KVN1.25YL	1"	1 5/8"	125'	25'	Yellow (YL)	2.40
1 1/2"	KVN1.50YL	1 1/4"	2"	100'	25'	Yellow (YL)	2.90
2"	KVN2.00YL	1 3/4"	2 1/2"	100'	25'	Yellow (YL)	3.60

*Please note that Aramid Flexo KV is degraded by ultraviolet light. Do not store in direct sunlight. Fluorescent lighting will cause discoloration, but will not affect fiber mechanical properties.



A Unique Combination of Properties for Demanding Applications

VECTRAN® FIBER (VEN) is a high-performance multifilament yarn spun from liquid crystal polymer. Pound for pound Vectran fiber is five times stronger than steel and ten times stronger than aluminum, which makes it the material of choice in demanding applications where other fibers fail to meet performance requirements. Our product also demonstrates minimal moisture absorption, outstanding cut and abrasion resistance, high dielectric strength, and melt temperature of 625°F.

Vectran® Fiber sleeving is used in a wide range of applications, including aerospace, high tech research, industrial protection, marine, and medical uses.

Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/8"	VEN0.13NT	.025"	7/64"	9/64"	500	100	Natural (NT)	0.36
1/4"	VEN0.25NT	.025"	13/64"	19/64"	500	100	Natural (NT)	0.72



Vectran's molecular structure not only makes it one of the world's strongest materials but vectran is also invisible in MRI systems.

Vectran® is a registered trademark of the Kuraray Co., LTD.

1-973-300-9242
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- **Resin Saturated, Heavy Weight Braided Fiberglass Won't Burn, Melt, or Become Brittle**
- **Minimal Dusting When Cut & Handled**
- **Cut and Abrasion Resistant**
- **Easy to Install - Cuts with Scissors**
- **Resists Gasoline and Engine Chemicals**

Resin Saturated Fiberglass Protects up to 1,200°F

INSULTHERM (FGN) is an extremely high temperature resistant sleeve commonly used as thermal protection for wires, cables, and hoses that are subjected to continuous and extreme high temperature environments, such as engine manifolds and exhaust systems.

Insultherm is braided from fiberglass yarns and saturated with high temperature resins. FGN is tough and durable, maintaining its tight structure under extreme vibration, abrasion, mechanical stress, and temperature variations.

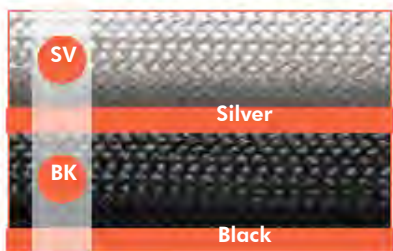
FGN is available in a wide range of diameters. It installs easily over a variety of applications to either deflect or retain heat in environments up to 1,200°F.



Insultherm resin saturated braided fiberglass sleeving is ideal in areas where fire and extremely high temperatures create a hazard to personnel and equipment.



Hoses insulated with Insultherm can perform better in the demanding environments multi terrain equipment is used in.



Nominal Size	Part #	Maximum Diameter	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/4"	FGN0.25	3/8"	.031"	200'	50'	SV & BK	2.00
3/8"	FGN0.38	5/8"	.043"	200'	50'	SV & BK	3.30
1/2"	FGN0.50	3/4"	.046"	200'	50'	SV & BK	4.80
5/8"	FGN0.63	7/8"	.046"	200'	50'	SV & BK	5.30
3/4"	FGN0.75	1 1/8"	.046"	200'	50'	SV & BK	6.40
7/8"	FGN0.88	1 1/4"	.046"	200'	50'	SV & BK	8.70
1"	FGN1.00	1 5/8"	.057"	100'	25'	SV & BK	10.50
1 1/2"	FGN1.50	2 5/8"	.061"	100'	25'	SV & BK	16.00
2 1/2"	FGN2.50	4 1/8"	.071"	100'	25'	SV & BK	19.70

Insultherm Heavy Duty Sleeving Withstands Heat up to 1,200°F

INSULTHERM HEAVY DUTY (FGS) is a braided fiberglass sleeving made in a heavy wall construction with a high-temp cord braided into the sleeving. Insultherm HD is saturated with high temperature acrylic resins, which adds rigidity and reduces fray when cut. The high temperature fiberglass cord braided into the sleeving adds significant abrasion protection and allows the sleeving to expand to much larger diameters, making it easier to apply over longer lengths.

Insultherm HD is ideal heat protection for cables and hoses in a wide range of available sizes and will withstand 1,200°F temperatures. This sleeving is designed to provide thermal insulation and protection for EGR tubes, fuel lines, hydraulic and industrial hose applications as well as many welding and automotive applications. This product can also be produced in large flat sheets and customized into a wrap with push button closure or stainless steel tie closures. The wraps make it ideal for thermal protection with a higher degree of abrasion protection.

- **Heavy Weight Braided Fiberglass Won't Burn, Melt, or Become Brittle**
- **Minimal Dusting When Cut & Handled**
- **Cut and Abrasion Resistant**
- **Easy to Install**
- **Resists Gasoline and Engine Chemicals**



Integrated ribs on our Insultherm HD provide a built in buffer from heat and abrasion.



Increasing the distance from your vulnerable hoses and wires will insure that the heat protection lasts its longest.

Nominal Size	Part #	Maximum Diameter	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/2"	FGS0.50BK	7/8"	.050"	200'	50'	Black (BK)	7.30
3/4"	FGS0.75BK	2 3/4"	.058"	200'	50'	Black (BK)	13.60
1"	FGS1.00BK	2 1/2"	.073"	200'	50'	Black (BK)	17.00
1 1/4"	FGS1.25BK	3 3/8"	.072"	100'	25'	Black (BK)	21.70
1 1/2"	FGS1.50BK	5 3/8"	.090"	100'	25'	Black (BK)	27.80



- **Rated to 464°F**
- **For High Temp - Low Voltage Applications**
- **Cut and Abrasion Resistant**
- **UL Recognized: VW-1**
- **Easy to Install - Cuts with Scissors**
- **Excellent Low Temp Flexibility**
- **Resists Most Organic Solvents**

Heat Treated, Fray-Resistant Fiberglass Sleeving

Techflex INSULTHERM TRU-FIT (FGL) is a braided fiberglass sleeving which has been heat treated and impregnated with an acrylic binder to reduce fraying and dusting, and improve usability and performance. FGL is engineered for applications where temperatures as high as 1,200°F may occur.

FGL is used as primary insulation on low voltage applications such as leads in toasters, coffee makers, ranges, and other small appliances. FGL may also be used as insulation and protection for small heaters and resistors that operate at high temperatures, as well as to insulate over soldered connections when exposure to solder melt temperatures is possible.

Insultherm Tru-Fit provides a sturdy, long lasting, and inexpensive insulation solution. It is flexible and expandable, and can easily be installed over applications with irregular shapes and tight turns. Standard colors are Black and Natural, but other colors are available by special order. Contact your Account Representative for details.



Protect component wiring leads from heat and abrasion with Insultherm Tru-Fit for an attractive and permanent finish.



Nominal Size	Diameter	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors
				Min.	Max.	Bulk Spool	Shop Spool	
24	0.022"	FGLG.24	.006"	0.020"	0.027"	500'	250'	WH,NT,YL,RD,BL,BK
22	0.027"	FGLG.22	.006"	0.025"	0.032"	500'	250'	WH,NT,YL,RD,BL,BK
20	0.034"	FGLG.20	.006"	0.032"	0.039"	500'	250'	WH,NT,YL,RD,BL,BK
18	0.042"	FGLG.18	.006"	0.040"	0.049"	500'	250'	WH,NT,YL,RD,BL,BK
16	0.053"	FGLG.16	.006"	0.051"	0.061"	500'	250'	WH,NT,YL,RD,BL,BK
14	0.066"	FGLG.14	.006"	0.064"	0.072"	500'	250'	WH,NT,YL,RD,BL,BK
12	0.085"	FGLG.12	.006"	0.081"	0.089"	250'	100'	WH,NT,YL,RD,BL,BK
11	0.095"	FGLG.11	.008"	0.091"	0.101"	250'	100'	WH,NT,YL,RD,BL,BK
10	0.106"	FGLG.10	.008"	0.102"	0.112"	250'	100'	WH,NT,YL,RD,BL,BK
9	0.118"	FGLG.09	.008"	0.114"	0.124"	250'	100'	WH,NT,YL,RD,BL,BK
8	0.133"	FGLG.08	.008"	0.129"	0.141"	250'	100'	WH,NT,YL,RD,BL,BK
7	0.148"	FGLG.07	.008"	0.144"	0.158"	250'	100'	WH,NT,YL,RD,BL,BK
6	0.166"	FGLG.06	.010"	0.162"	0.178"	250'	100'	WH,NT,YL,RD,BL,BK
5	0.186"	FGLG.05	.010"	0.182"	0.198"	250'	100'	WH,NT,YL,RD,BL,BK
4	0.208"	FGLG.04	.010"	0.204"	0.224"	250'	100'	WH,NT,YL,RD,BL,BK
3	0.234"	FGLG.03	.010"	0.229"	0.249"	250'	100'	WH,NT,YL,RD,BL,BK
2	0.263"	FGLG.02	.010"	0.258"	0.278"	250'	100'	WH,NT,YL,RD,BL,BK
1	0.294"	FGLG.01	.010"	0.289"	0.311"	100'	50'	WH,NT,YL,RD,BL,BK
0	0.330"	FGLG.00	.016"	0.325"	0.347"	100'	50'	WH,NT,YL,RD,BL,BK
3/8"	0.375"	FGL0.38	.016"	0.375"	0.399"	100'	50'	WH,NT,YL,RD,BL,BK
7/16"	0.438"	FGL0.44	.016"	0.438"	0.462"	100'	50'	WH,NT,YL,RD,BL,BK
1/2"	0.500"	FGL0.50	.016"	0.500"	0.524"	100'	50'	WH,NT,YL,RD,BL,BK
5/8"	0.625"	FGL0.63	.016"	0.625"	0.655"	100'	50'	WH,NT,YL,RD,BL,BK
3/4"	0.750"	FGL0.75	.016"	0.750"	0.786"	100'	50'	WH,NT,YL,RD,BL,BK

Braided Fiberglass Protects up to 1,200°F

INSULTHERM ULTRAFLEX (FHN) fiberglass sleeving is ideal for the protection of wires and hoses exposed to the heat generated from high performance engine and exhaust components.

FHN can be used where space factor electrical insulation is sufficient, but high temperature protection is required. It is typically used for insulation on low voltage applications such as leads in toasters, range units, and other appliances. Ultraflex expands slightly, allowing it to slide easily over wires and follow curves and contours without binding.

Ultraflex undergoes a unique heat treatment process during manufacturing to remove impurities, improve handling, and allow for easy cutting with scissors. The absence of an acrylic binder results in an extremely flexible and versatile sleeve. Both long-lasting and sturdy, FHN is an economical choice for low voltage and high temperature protection.

- **Continuous Filament E-Type Glass**
- **Resists Abrasion, Vibration, and Mechanical Stress**
- **Easy to Install - Cuts With Scissors**
- **Stays Flexible in Low Temperatures**

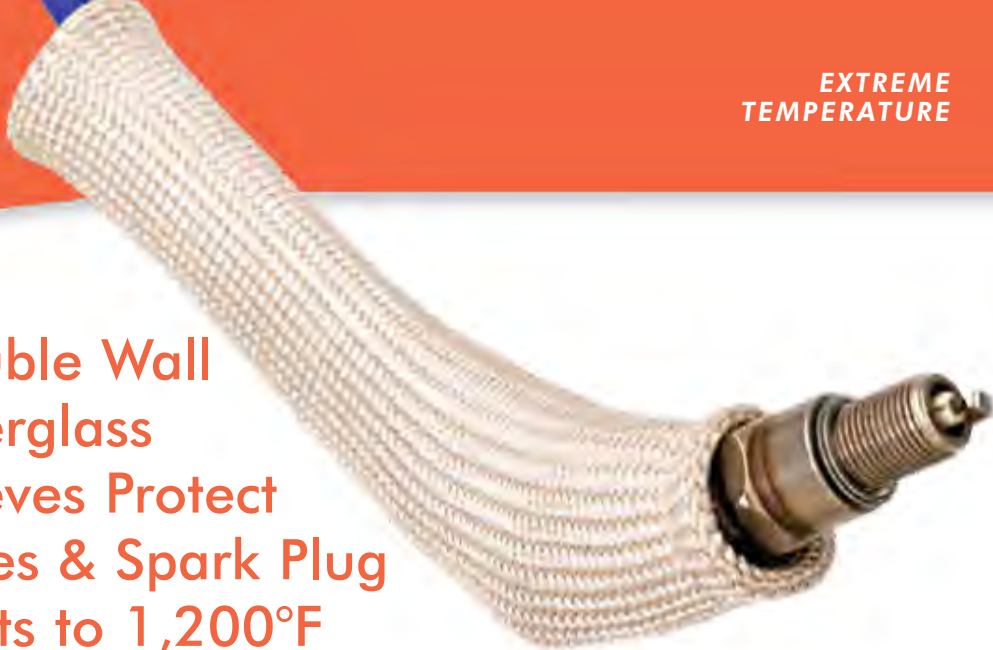
Nominal Size	Diameter	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors
				Min.	Max.	Bulk Spool	Shop Spool	
24	0.022"	FHNG.24NT	.005"	0.020"	0.027"	500'	250'	Natural (NT)
22	0.027"	FHNG.22NT	.005"	0.025"	0.032"	500'	250'	Natural (NT)
20	0.034"	FHNG.20NT	.009"	0.032"	0.039"	500'	250'	Natural (NT)
18	0.042"	FHNG.18NT	.011"	0.040"	0.049"	500'	250'	Natural (NT)
17	0.047"	FHNG.17NT	.011"	0.045"	0.054"	500'	250'	Natural (NT)
16	0.053"	FHNG.16NT	.011"	0.051"	0.061"	500'	250'	Natural (NT)
14	0.066"	FHNG.14NT	.011"	0.064"	0.074"	500'	250'	Natural (NT)
13	0.076"	FHNG.13NT	.011"	0.072"	0.082"	500'	250'	Natural (NT)
12	0.085"	FHNG.12NT	.011"	0.081"	0.091"	250'	100'	Natural (NT)
11	0.095"	FHNG.11NT	.011"	0.091"	0.101"	250'	100'	Natural (NT)
10	0.106"	FHNG.10NT	.011"	0.102"	0.112"	250'	100'	Natural (NT)
9	0.118"	FHNG.09NT	.011"	0.114"	0.124"	250'	100'	Natural (NT)
8	0.133"	FHNG.08NT	.011"	0.129"	0.141"	250'	100'	Natural (NT)
7	0.148"	FHNG.07NT	.013"	0.144"	0.158"	250'	100'	Natural (NT)
6	0.166"	FHNG.06NT	.013"	0.152"	0.178"	250'	100'	Natural (NT)
5	0.186"	FHNG.05NT	.013"	0.182"	0.198"	250'	100'	Natural (NT)
4	0.208"	FHNG.04NT	.016"	0.204"	0.224"	250'	100'	Natural (NT)
3	0.234"	FHNG.03NT	.016"	0.229"	0.249"	250'	100'	Natural (NT)
2	0.263"	FHNG.02NT	.016"	0.258"	0.278"	250'	100'	Natural (NT)
1	0.294"	FHNG.01NT	.016"	0.289"	0.311"	100'	50'	Natural (NT)
0	0.330"	FHNG.00NT	.016"	0.325"	0.347"	100'	50'	Natural (NT)
1/4"	0.250"	FHN0.25NT	.010"	0.250"	0.313"	100'	50'	Natural (NT)
5/16"	0.313"	FHN0.31NT	.016"	0.313"	0.333"	100'	50'	Natural (NT)
3/8"	0.375"	FHN0.38NT	.012"	0.375"	0.500"	100'	50'	Natural (NT)
7/16"	0.438"	FHN0.44NT	.018"	0.438"	0.462"	100'	50'	Natural (NT)
1/2"	0.500"	FHN0.50NT	.013"	0.500"	0.625"	100'	50'	Natural (NT)
5/8"	0.625"	FHN0.63NT	.024"	0.625"	0.750"	100'	50'	Natural (NT)
3/4"	0.750"	FHN0.75NT	.024"	0.750"	0.875"	100'	50'	Natural (NT)
1"	1.000"	FHN1.00NT	.024"	1.000"	1.250"	100'	50'	Natural (NT)



Insultherm Ultra-Flex is a highly flexible heat protection with no added coatings or binders

- **Economical, Long Lasting Protection**
- **Easy, Slip On Installation**
- **Protects up to 1,200°F**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**

Double Wall Fiberglass Sleeves Protect Wires & Spark Plug Boots to 1,200°F



For decades, Techflex's Insultherm braided fiberglass sleeving has been the first choice among automotive professionals and enthusiasts alike for many of their thermal protection applications.

These innovative sleeves offer the same high temperature protection in an easy slip on sleeve that will extend the life of expensive spark plug wires by protecting them where they need it most... at the boot. Just slip these 3/4" diameter double thickness (triple thick at the sewn end) sleeves over any spark plug cable and boot (even right angle boots) to protect them from engine temperatures up to 1,200°F. Once installed, the sleeves require no clearance from hot surfaces and can even rest directly on hot exhaust headers without affecting performance.

Insultherm Spark Plug Boot Sleeves are completely non-conductive, resist all engine chemicals, will not support combustion, and provide an easy, economical solution to the challenge of wire protection in the cramped, high temperature environment of any high performance engine compartment.



Available in three lengths: 4 1/2" , 7 1/2" , and 12".



Insultherm Spark Plug Boot Sleeves can rest directly on hot headers and other engine components without burning, melting, or becoming brittle.



See pg. 105 for the custom kits.



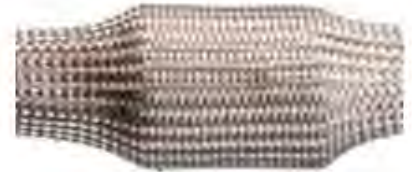
With ring



Nominal Size	Part #	Diameter	Wall Thickness	Bulk Box	Available Colors
No Ring-Easy Install					
4 1/2"	FBN0.75	3/4"	.085"	144	NT in-stock color; all other available by special order only NT, BL, BK, RD available by special order only
7 1/2"	FCN0.75	3/4"	.085"	144	
12"	FDN0.75	3/4"	.085"	144	
With Ring					
7 1/2"	FCU0.75	3/4"	.085"	144	NT, BL, BK, RD

Heavy Wall Fiberglass Protects up to 1,200°F

The heavy wall construction, large available diameters, and high expandability of ULTRAFLEX PRO (FHH) provides a high level of protection and ease of installation when used to insulate pipes and hoses subject to abrasion and vibration. Ultraflex Pro cuts easily with scissors, and special heat treated construction minimizes fraying and dusting during assembly. Increased wall thickness adds value to insulation.



Insultherm Ultraflex Pro expands up to 50% for easy installation

Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/2"	FHH0.50NT	.025"	3/8"	5/8"	100'	50'	Natural (NT)	3.50
3/4"	FHH0.75NT	.040"	5/8"	1 5/32"	100'	50'	Natural (NT)	8.00
1"	FHH1.00NT	.032"	7/8"	1 3/8"	50'	25'	Natural (NT)	7.00
1 1/4"	FHH1.25NT	.035"	1"	1 3/4"	50'	25'	Natural (NT)	10.50
1 1/2"	FHH1.50NT	.035"	1 1/8"	2 1/8"	50'	25'	Natural (NT)	10.00



Protects up to 1,800°F

Densely woven Silica Sleeve (SLN) is ideal for protection of delicate components and personnel from exposure to high temperature exhausts and pipes. Silica Sleeve is braided into a strong and flexible sleeve from silica yarns. The thick 60 mil walls of this sleeving provide enhanced thermal protection up to 1,800°F. This product cuts easily with scissors or shears and expands to allow easy installation over water cooling hoses, hydraulic hoses, and electrical cables.



Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/4"	SLN0.25NT	.060"	1/4"	1/2"	100	50	Natural (NT)	2.60
1/2"	SLN0.50NT	.060"	1/2"	5/8"	100	50	Natural (NT)	5.00
1"	SLN1.00NT	.060"	3/4"	1 5/32"	100	50	Natural (NT)	6.10
1 1/2"	SLN1.50NT	.060"	1"	1 1/2"	100	50	Natural (NT)	10.00
2"	SLN2.00NT	.060"	1 1/4"	2 3/16"	100	25	Natural (NT)	9.00
3"	SLN3.00NT	.060"	2 1/2"	3 1/2"	100	25	Natural (NT)	11.90
4"	SLN4.00NT	.060"	3 1/2"	4 1/2"	100	25	Natural (NT)	14.80
6"	SLN6.00NT	.060"	5 1/2"	6 1/2"	100	25	Natural (NT)	17.70

- **60 Mil Wall Thickness Provides Enhanced Thermal Insulation**
- **High Temperature Resistance**
- **Easy to Install**
- **Resists Gasoline and Engine Chemicals**
- **Cut and Abrasion Resistant**



**EXTREME
TEMPERATURE**

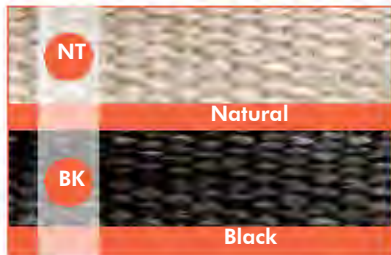
- High Temp. Resistant
- Easy to Install
- Resists Gasoline and Engine Chemicals
- Increases Horsepower & Improves Fuel Mileage
- Cut & Abrasion Resistant
- Halogen Free

Vermiculite Coated Fiberglass Wrap Withstands Heat up to 1,200°F



HEADER WRAP INSULTHERM™ (HFN) is extremely resistant to high temperatures. It is commonly used for automotive and high performance headers and exhausts.

HFN is manufactured from texturized fiberglass yarns and woven into a strong and flexible wrap with vermiculite coating.



Wall Thickness	Widths	Part #	Maximum Continuous Temperature	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/16"	1"	HFN1.00	1,000°F	100'	25'	NT & BK	1.50
1/16"	2"	HFN2.00		100'	25'	NT & BK	3.05

CUSTOM CONFIGURATIONS

Thickness Available: 1/16", 1/8" Widths Available: 1/2" – 6"

Contact us for custom product options.

HEADER WRAP and HEADER WRAP SI - Reduces under-hood temperatures up to 70%, increases horsepower and fuel efficiency. Techflex Header Wrap works by holding heat within the header, which creates a better exhaust flow. This allows easy removal of spent gasses and creates more airflow to the engine.



- High Temp. Resistant
- Repels Gasoline and Engine Chemicals
- Cut and Abrasion Resistant

Silica Wrap Withstands Continuous Heat up to 2,000°F



HEADER WRAP SI INSULTHERM™ (HSN) is made from texturized amorphous silica filament yarn woven into a strong and flexible form. Because the yarn is texturized into a bulky form, it provides excellent insulating values. Header Wrap SI is not made from leached fiberglass, resulting in a much more wear resistant finished product.

Wall Thickness	Widths	Part #	Maximum Continuous Temperature	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/16"	1"	HSN1.00NT	2,000°F	100'	25'	Natural (NT)	1.50
1/16"	2"	HSN2.00NT		100'	25'	Natural (NT)	3.05

CUSTOM CONFIGURATIONS

Thickness Available: 1/16", 1/8" Widths Available: 1" – 4"

Contact us for custom product options.

1-973-300-9242
www.techflex.com

Woven Volcanic Rock Tape Withstands Heat up to 1,300°F

VOLCANO WRAP (VWN) is made from continuous filament basalt fiber and is engineered for protection from temperatures up to 1,300°F. When wrapped around exhaust pipes, the unique construction creates an attractive and durable finished product.

Volcano Wrap is 25% stronger and provides a 300°F increase in temperature protection over fiberglass wrap. The product is very rugged, and will not exhibit any vibration damage over long periods of use.

The volcanic rock fiber wrap is easy to install and will provide years of protection and good looks.

- **High Temperature Resistance**
- **Easy to Install**
- **Resists Gasoline and Engine Chemicals**
- **Great Appearance**



Header wrap can be terminated with our new ClampTite tool found on pg. 100



Volcano Wrap helps redirect the heat every race or every day in production, keeping engine areas cooler and performance results better.



Wall Thickness	Widths	Part #	Standard Spool Put-Ups				Available Colors	Lbs/ 100'
			Bulk Spool 1	Bulk Spool 2	Bulk Spool 3	Bulk Spool 4		
1/16"	1"	VWN1.00BA	100'	50'	25'	15'	Basalt (BA)	1.70
1/16"	2"	VWN2.00BA	100'	50'	25'	15'	Basalt (BA)	3.20

CUSTOM CONFIGURATIONS

Thickness Available: 1/16", 1/8" Widths Available: 1" – 4"

Contact us for custom product options.

1-973-300-9242
www.techflex.com

Reflective Aluminized Surface Bonded to Insulating Fiberglass in 4 Styles



ThermaShield creates a thermal buffer between your wires, hoses and cables, and the high temperature environments surrounding them.

ThermaShield is engineered by laminating an aluminized metallic heat shield to a layer of strong, tightly braided fiberglass insulation. This system provides superior protection from radiant heat by reflecting it away from sensitive electronics, wiring, and hoses.

The four styles of ThermaShield; Tube, Convoluted, Wrap, and Flat provide a full range of solutions for virtually any application. The Wrap and Flat products use a very aggressive, high temperature adhesive that eliminates the need for high-temp mylar tape or other adhesive.

ThermaShield products will endure temperatures up to 1,200°F without delaminating, turning brittle, or suffering adhesive failure.

They are ideal in any situation where protection from radiant heat is a primary concern.

ThermaShield helps keep high performance engines running efficiently.



Nominal Size	Part #	Wall Thickness ±0.006"	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
3/8"	TTN0.38SV	.025"	300'	100'	Silver (SV)	1.86
1/2"	TTN0.50SV	.025"	250'	100'	Silver (SV)	2.55
5/8"	TTN0.63SV	.025"	250'	100'	Silver (SV)	3.00
3/4"	TTN0.75SV	.025"	250'	100'	Silver (SV)	3.45
7/8"	TTN0.88SV	.025"	250'	100'	Silver (SV)	4.10
1"	TTN1.00SV	.025"	250'	100'	Silver (SV)	4.50
1 1/4"	TTN1.25SV	.025"	250'	100'	Silver (SV)	5.40
1 1/2"	TTN1.50SV	.025"	250'	100'	Silver (SV)	6.20
1 3/4"	TTN1.75SV	.025"	100'	50'	Silver (SV)	7.40
2"	TTN2.00SV	.025"	100'	50'	Silver (SV)	8.70
2 1/2"	TTN2.50SV	.025"	100'	50'	Silver (SV)	10.10
3"	TTN3.00SV	.025"	100'	50'	Silver (SV)	19.00

EXTREME
TEMPERATURE

THERMA SHIELD

THERMA SHIELD

WRAP

THERMA SHIELD

FLAT

CONVOLUTED

Nominal Size	Part #	Wall Thickness ±0.005"	4' Pcs. Put-Ups				Available Colors	Lbs/10Pcs.
			Bulk Box	Box 8x8	Box 6x6	Box 4x4		
3/8"	TCN0.38SV	.045"	300	80	45	30	Silver (SV)	1.00
1/2"	TCN0.50SV	.045"	250	70	40	25	Silver (SV)	1.20
5/8"	TCN0.63SV	.045"	150	60	35	20	Silver (SV)	1.50
3/4"	TCN0.75SV	.045"	125	50	30	15	Silver (SV)	1.80
7/8"	TCN0.88SV	.045"	100	40	25	12	Silver (SV)	1.95
1"	TCN1.00SV	.045"	88	30	20	9	Silver (SV)	2.10
1 1/4"	TCN1.25SV	.045"	63	20	10	6	Silver (SV)	2.30

- Cuts Easily with Scissors
- Reflects Radiant Heat
- Insulates Delicate Wires & Components
- Resists Gasoline and Engine Chemicals

WRAP

Nominal Size	Part #	Sheet Width	Wall Thickness ±0.008"	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/2"	TWN0.50SV	1 13/16"	.025"	200'	100'	Silver (SV)	2.60
3/4"	TWN0.75SV	2 1/2"	.025"	200'	100'	Silver (SV)	4.00
1"	TWN1.00SV	3 3/8"	.025"	200'	100'	Silver (SV)	5.10
1 1/4"	TWN1.25SV	4 1/4"	.025"	200'	100'	Silver (SV)	5.70
1 1/2"	TWN1.50SV	5"	.025"	200'	100'	Silver (SV)	6.50
1 3/4"	TWN1.75SV	5 13/16"	.025"	100'	50'	Silver (SV)	7.40
2"	TWN2.00SV	6 11/16"	.025"	100'	50'	Silver (SV)	8.40
2 1/4"	TWN2.25SV	7 3/8"	.025"	100'	50'	Silver (SV)	9.50



Techflex ThermoShield and a competitor's similar product were placed in the same electrical test oven for one hour at 626°F (330°C). Note the burning and delamination of the fiberglass interior of the Brand "X" product. Even the metallic shroud suffered a degree of burning and brittleness that did not occur on the ThermoShield sample.

FLAT

Nominal Size	Part #	Wall Thickness ±0.006"	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
1"	TSN1.00SV	.025"	250'	100'	Silver (SV)	1.60
1 1/2"	TSN1.50SV	.025"	250'	100'	Silver (SV)	2.00
2"	TSN2.00SV	.025"	250'	100'	Silver (SV)	2.75
3"	TSN3.00SV	.025"	250'	100'	Silver (SV)	4.30
4"	TSN4.00SV	.025"	250'	100'	Silver (SV)	5.60
5"	TSN5.00SV	.025"	200'	100'	Silver (SV)	7.60
6"	TSN6.00SV	.025"	100'	50'	Silver (SV)	9.20
6 7/8"	TSN6.88SV	.025"	100'	50'	Silver (SV)	10.90



Therma-Shield Heat Reflecting products stop heat before it gets to your hose systems cutting internal temperatures drastically.



1-973-300-9242
www.techflex.com



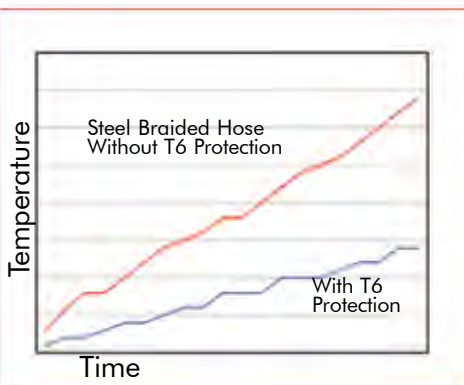
- **Heat Reflective Aluminum Laminated Fiberglass**
- **Self Wrap and Seal Overlap with High Temperature Adhesive Strip**
- **Reflects Radiant Heat**
- **Resists Gasoline and Engine Chemicals**
- **Cut and Abrasion Resistant**
- **Cuts Cleanly with Scissors**
- **Halogen Free**

Flexible Thermal Reflective Wrap Deflects Radiant Heat up to 1,400°F

One of the most popular items in the ThermaShield line of aluminized fiberglass products, T6, is designed for ease of installation when component disassembly isn't practical.

Just wrap the pre-formed, split flexible tube around any component, and seal the sides with the high temperature adhesive strip to provide protection from hot pipes and engine components.

The highly reflective aluminized exterior, combined with the insulating fiberglass interior, protects delicate wire bundles, cables, and lines from damage caused by nearby exhaust pipes, headers, or other heat generating components.



After long term exposure to extreme temp. (1,400°F) with the distance of 3/8" from the source of heat, T6 Thermashield remains flexible and resilient with no delaminating or breaking of the adhesive.



T6 can reduce the heat transmission from hot pipes or engine components into hoses or harnesses by up to 50% or more.



T6 is shipped in pre-cut 4' lengths



Nominal Size	Wall Thickness ±0.007"	Part #	4' Pcs. Put-Ups				Available Colors	Lbs/10Pcs.
			Bulk Box	Box 8x8	Box 6x6	Box 4x4		
1/4"	.042"	T6F0.25SV	250	140	100	50	Silver (SV)	1.00
3/8"	.042"	T6F0.38SV	250	90	50	30	Silver (SV)	1.50
1/2"	.042"	T6F0.50SV	250	70	40	25	Silver (SV)	2.00
5/8"	.042"	T6F0.63SV	150	60	35	20	Silver (SV)	2.50
3/4"	.042"	T6F0.75SV	125	50	30	15	Silver (SV)	3.00
1"	.042"	T6F1.00SV	70	30	20	9	Silver (SV)	3.50
1 1/4"	.042"	T6F1.25SV	63	20	10	6	Silver (SV)	4.50
1 1/2"	.042"	T6F1.50SV	40	15	8	4	Silver (SV)	5.00
2"	.042"	T6F2.00SV	24	8	4	2	Silver (SV)	6.00



The Ultimate Heat Protection

The new Techflex CONNECTOR SHIELD (CNS) is the ultimate heat protection for your connections.

Built to shield your delicate electronics from the extreme engine and exhaust temperatures of today's high performance engines. Our convenient shield slides easily over connections and can cut surface heat to a fraction of the unprotected temp.

The hybrid system in our heat shield combats the effects of radiant heat with the aluminum skin and convective heat with thick insulation layers. If you have connections in the line of fire, Techflex connector shields are for you.

- Reflects Radiant Heat
- Insulates Delicate Wires & Components
- Resists Gasoline & Engine Chemicals



Nominal Size (ID)	Part #	Length	Bulk Pack	Available Colors	Lbs/10 Pcs.
1 1/4"	CNS1.25SV	3"	10 Pcs.	Silver (SV)	0.40

Thermashield Tape

A high temperature and EMI/RDI shielding tape that exhibits outstanding heat reflectivity and thermal stability at extremely high temperatures for short periods of time. The tape is constructed of 1 mil aluminum foil, laminated on 2 mil glass cloth with silicone adhesive. Backing retains physical properties even after thermal degradation of the silicone adhesive into an insulating layer of silica. It can be used as a radiant heat shield for the protection of electrical control wiring, power cables, and other heat-sensitive devices.

Nominal Size	Part #	Wall Thickness	Bulk Spool	Available Colors	Lbs/Roll
1"	TST1.00SV	.068"	108'	Silver (SV)	0.50
1 1/2"	TST1.50SV	.068"	108'	Silver (SV)	0.75
2"	TST2.00SV	.068"	108'	Silver (SV)	1.06
3"	TST3.00SV	.068"	108'	Silver (SV)	1.59
4"	TST4.00SV	.068"	108'	Silver (SV)	2.12
6"	TST6.00SV	.068"	108'	Silver (SV)	3.18





**EXTREME
TEMPERATURE**

- **Soft, Pliable & Strong**
- **Cut and Abrasion Resistant**
- **Protects to 662°F**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**
- **Cut Easily with Scissors**

Soft, Pliable Flame Protection to 662°F

Braided ARAMID FLEXO NX (NXN) is made from the fibers of DuPont™ Nomex® that have been woven in protective clothing used by race car drivers, municipal fire fighters, and oil rig personnel to provide that extra level of comfort and protection from the dangers that come with working in and around intense flame and heat. Our Aramid Flexo NX sleeving will do the same for your wires, hoses, and cables. Aramid Flexo NX will protect your application in temperatures up to 662°F. It is unaffected by short term exposure to most acids, bases, solvents, and common engineering chemicals. Despite the soft touch and smooth appearance associated with woven aramid fibers, Aramid Flexo NX is incredibly strong, with a tensile strength of 90,000 psi.

The densely braided sleeving provides full coverage and protection on even the most exposed applications.

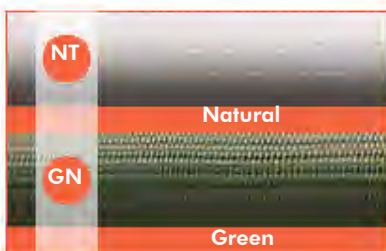
Aramid Flexo NX sleeving cuts easily with regular scissors and the smooth surface eases installation even over long wire runs.



*Proven in the air...
...Proven on the ground*



Nomex® is at work every day protecting our firefighters and first responders from injury.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	NXN0.13	1/16"	1/4"	100'	25'	NT & GN	0.12
1/4"	NXN0.25	1/8"	5/16"	100'	25'	NT & GN	0.50
5/16"	NXN0.31	7/32"	7/16"	100'	25'	NT & GN	0.60
3/8"	NXN0.38	1/4"	1/2"	100'	25'	NT & GN	0.67
1/2"	NXN0.50	5/16"	5/8"	100'	25'	NT & GN	0.91
5/8"	NXN0.63	7/16"	7/8"	100'	25'	NT & GN	1.10
3/4"	NXN0.75	9/16"	1"	100'	25'	NT & GN	1.34
1"	NXN1.00	3/4"	1 1/8"	100'	25'	NT & GN	2.42
1 1/4"	NXN1.25	1"	1 1/2"	100'	25'	NT & GN	3.49
1 1/2"	NXN1.50	1 1/4"	1 3/4"	100'	25'	NT & GN	4.03
1 3/4"	NXN1.75	1 1/2"	2"	100'	25'	NT & GN	4.76

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New & Improved - Protects Vulnerable Welding Hoses from Catastrophic Failure

Techflex WELD-WRAP (WWH) is braided from silica yarns with a high temperature coating and as well as hook and loop closure. Commonly used for protecting welding hoses from molten splatter and abrasion from moving and dragging. This product will withstand continuous exposure to temperatures of 400°F, and intermittent exposure to temperatures of 750°F.

The heavy duty hook and loop closure ensures a tight seal, and allows Weld-Wrap to be installed easily over existing assemblies. Weld-Wrap also provides a high level of abrasion and penetration protection to increase the useful life of any hoses exposed to rough or abrasive surfaces.

- **Resists Damage from UV, Gasoline, and Engine Chemicals**
- **Weld Splatter, Hot Slag, and Welding Spark Protection**



WeldWrap bundles and protects hoses on welding robots and static welding stations.

Nominal Size	Part #	Wall Thickness	Velcro Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1"	WWH1.00SV	.051"	5/8"	50'	25'	Silver (SV)	13.15
1 1/2"	WWH1.50SV	.051"	5/8"	50'	25'	Silver (SV)	16.94
2"	WWH2.00SV	.051"	5/8"	50'	25'	Silver (SV)	20.81
3"	WWH3.00SV	.051"	5/8"	50'	25'	Silver (SV)	28.53



**EXTREME
TEMPERATURE**

- **Stable to 500°F**
- **Cut and Abrasion Resistant**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**

Silicone Jacketed Fiberglass Resists Heat, Abrasion, & Moisture

Silicone jacketed fiberglass sleeving is the choice of professionals in racing and other industries where protection from constant temperatures approaching 500°F is mandatory.

FIREFLEX (FIN) fiberglass/silicone sleeving is engineered to protect hoses, cables, and wire harnesses from damage due to exposure to extreme heat, open flame, molten splash, and welding sparks. The thick, high temperature fiberglass sleeve is jacketed with a non-permeable, heavy silicone coating that is flexible enough to follow tight radius curves, resists all automotive chemicals and solvents, and provides a substantial level of abrasion and puncture protection.

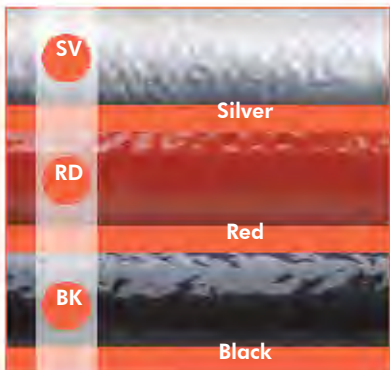
FireFlex firesleeve is completely non-conductive, will not melt, delaminate, become brittle, or support combustion under normal conditions. It provides a professional level solution to thermal protection needs in any application.



Techflex silicone jacketed fiberglass is tested under pressure to destruction to ensure reliable fire protection for your fuel and hydraulic lines.



FireFlex Seal Tape works perfectly in conjunction with FireFlex...it seals the ends of your application, providing a neat, insulated termination. For more info go to page 95.



Nominal Size	Part #	Dash No.	Wall Thickness ±0.010"	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/4"	FIN0.25	-04	.072"	100'	50'	SV, RD & BK	4.80
3/8"	FIN0.38	-06	.072"	100'	50'	SV, RD & BK	6.30
1/2"	FIN0.50	-08	.072"	100'	50'	SV, RD & BK	7.40
5/8"	FIN0.63	-10	.072"	100'	50'	SV, RD & BK	8.80
3/4"	FIN0.75	-12	.072"	50'	25'	SV, RD & BK	9.80
7/8"	FIN0.88	-14	.072"	50'	25'	SV, RD & BK	10.10
1"	FIN1.00	-16	.072"	50'	25'	SV, RD & BK	13.50
1 1/4"	FIN1.25	-20	.072"	50'	25'	SV, RD & BK	14.00
1 1/2"	FIN1.50	-24	.072"	50'	25'	SV, RD & BK	14.70
1 3/4"	FIN1.75	-28	.072"	50'	25'	SV, RD & BK	16.30
2"	FIN2.00	-32	.072"	50'	25'	SV, RD & BK	20.50
2 1/4"	FIN2.25	-36	.072"	50'	25'	SV, RD & BK	22.90
2 3/8"	FIN2.38	-38	.072"	50'	25'	SV, RD & BK	26.90
2 1/2"	FIN2.50	-40	.072"	50'	25'	SV, RD & BK	28.30
2 3/4"	FIN2.75	-44	.072"	50'	25'	SV, RD & BK	30.10
2 7/8"	FIN2.88	-46	.072"	50'	25'	SV, RD & BK	32.00
3"	FIN3.00	-48	.072"	50'	25'	SV, RD & BK	33.40
3 1/2"	FIN3.50	-56	.072"	25'	-	SV, RD & BK	37.20
4"	FIN4.00	-64	.072"	25'	-	SV, RD & BK	40.10

*Dash numbers refer to the inside diameter (ID) of the sleeve. Please measure the outside diameter (OD) of the hose you are protecting to ensure proper fit.

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High Temperature Sleeve AS1072 Aerospace Grade

- **Extra Thick Braid & Heavy Coating for Critical Aerospace Applications**

FIREFLEX AERO (FIA) is engineered from a dense fiberglass sleeve and a thick coating of self-extinguishing high temperature silicone rubber that withstands 500°F continuous exposure, and molten splash up to 2,000°F.

Almost every aviation engine - turbine, turboprop, or piston (civilian and military) - uses FireFlex Aero to protect critical hoses and wiring in the event of an engine compartment fire. FireFlex Aero meets the specification of AS1072, allowing qualified hose assemblies to pass the fire resistance testing specification of AS1055D.

FireFlex Aero is highly resistant to hydraulic fluids, lubricating oils, and fuels. The dense braided fiberglass interior insulates against energy loss in piping and hosing, while the high density silicone coating protects personnel from accidental injury.



Used on both military and commercial aircraft to defend hose systems from fire and thermal events.



Nominal Size	Part #	Dash No.	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/4"	FIA0.25	-04	.115"	100'	50'	BK & RD	8.04
3/8"	FIA0.38	-06	.115"	100'	50'	BK & RD	9.96
1/2"	FIA0.50	-08	.115"	100'	50'	BK & RD	14.04
5/8"	FIA0.63	-10	.115"	100'	50'	BK & RD	20.04
3/4"	FIA0.75	-12	.115"	50'	25'	BK & RD	21.96
7/8"	FIA0.88	-14	.115"	50'	25'	BK & RD	26.04
1"	FIA1.00	-16	.115"	50'	25'	BK & RD	33.00
1 1/8"	FIA1.13	-18	.115"	50'	25'	BK & RD	35.04
1 1/4"	FIA1.25	-20	.115"	50'	25'	BK & RD	36.96
1 3/8"	FIA1.38	-22	.115"	50'	25'	BK & RD	44.04
1 1/2"	FIA1.50	-24	.115"	50'	25'	BK & RD	48.00
1 5/8"	FIA1.63	-26	.115"	50'	25'	BK & RD	38.04
1 3/4"	FIA1.75	-28	.115"	50'	25'	BK & RD	42.00
1 7/8"	FIA1.88	-30	.115"	50'	25'	BK & RD	44.04
2"	FIA2.00	-32	.115"	50'	25'	BK & RD	48.00
2 1/4"	FIA2.25	-36	.115"	50'	25'	BK & RD	55.00
2 1/2"	FIA2.50	-40	.115"	50'	25'	BK & RD	65.04
2 3/4"	FIA2.75	-44	.115"	50'	25'	BK & RD	76.20
3"	FIA3.00	-48	.115"	50'	25'	BK & RD	87.00

*Dash numbers refer to the inside diameter (ID) of the sleeve. Please measure the outside diameter (OD) of the hose you are protecting to ensure proper fit.





Wrappable Hose Protection

- Resists Molten Splash up to 2200°F
- Strong Hook and Loop Closure
- Wrap Around Fire Protection

FIREFLEX WRAP (FIW) protects and shields important hoses and cables from extreme heat and catastrophic flame outbreaks. It protects continuously to 500°F and will withstand a molten splash at 2200°F. Its unique hook and loop closure system allows for installation without the need to remove and reconnect fittings and terminations. The reusable closure additionally allows for easy repair, minimizing labor and costly downtime.



Nominal Size (Width)	Part #	Wall Thickness	Velcro Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1"	FIW1.00RD	.045"	5/8"	50'	25'	Red (RD)	9.16
1 1/2"	FIW1.50RD	.045"	5/8"	50'	25'	Red (RD)	12.98
2"	FIW2.00RD	.045"	5/8"	50'	25'	Red (RD)	16.80
2 1/2"	FIW2.50RD	.045"	5/8"	50'	25'	Red (RD)	20.61
3"	FIW3.00RD	.045"	5/8"	50'	25'	Red (RD)	24.43
3 1/2"	FIW3.50RD	.045"	5/8"	50'	25'	Red (RD)	28.25
4"	FIW4.00RD	.045"	5/8"	50'	25'	Red (RD)	32.07



High Temp, Silicone Coated Fiberglass Hose Wrap

FIREFLEX FLAT (FIF) provides the same protection against exposure to extreme heat, open flame, and molten splash as the FireFlex sleeve, but in a versatile tape. It is specifically designed to protect components of irregular shape, such as hose splitter assemblies and cable splices. The heavy silicone coating maintains flexibility while resisting all automotive chemicals and solvents, and providing an increased level of abrasion protection. It is common for FireFlex Flat to be over-wrapped at 50%, providing a double-layer of protection. Once installed, it can be easily secured with tie-wraps, wire ties, and hose clamps.



Nominal Size (Width)	Part #	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
3 1/2"	FIF3.50	.094"	50'	25'	SV, RD, BK	16.53



Radiant Heat Protection Up To 1050°F

SILVER FOIL (SRF) is made from a lightweight aerospace material. This 14 mil thick foil has a fire resistant pressure sensitive adhesive which meets or exceeds the FAA 12-second vertical burn requirement. The reflective foil is easy to install and remove, and is extremely versatile in that it can be easily cut and formed.

The silver foil reflects at least 95% of radiant energy and provides continuous radiant heat protection up to 1050°F and higher for short durations. There is a minimum of 400°F gradient temperature drop across the film during normal operating temperatures. The film is supplied in 28" wide rolls and weighs approximately 12 oz/yd².

- 14 Mil Thick Foil
- Radiant Heat Protection
- Easy To Install
- Meets or Exceeds the FAA 12 sec. Vertical Burn Requirement



Silver Foil conforms and adheres to irregular shapes.

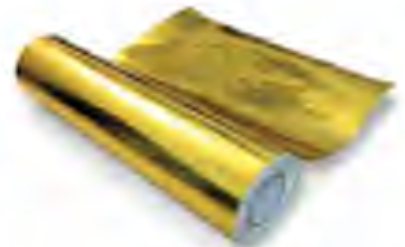
Nominal Size (Width)	Part #	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
28"	SRF28.0SV	.014"	120'	25'	Silver (SV)	19.44

Radiant Heat Protection Up To 750°F

The GOLD FOIL (GRF) is made from a lightweight aerospace material. This 6 mil thick foil has a fire resistant pressure sensitive adhesive that incorporates a fiberglass backing for strength and tear resistance. The adhesive meets or exceeds the FAA 12-second vertical burn requirement.

This gold reflective foil reflects up to 750°F of radiant heat and has a continuous operating temperature of 500°F. It will break down at 850°F of continuous radiant heat. There is up to a 70°F gradient temperature drop across the 6 mil thick foil during normal operating temperatures. Key benefits: can easily be cut and configured to each chassis style; easy to repair, install and remove since it adheres to itself.

- 6 Mil Thick Foil
- Reflects Radiant Heat
- Fiberglass Backing
- Distinct Checker Pattern Surface Texture
- Continuous Operating Temperature of 500°F



Applications include, but are not limited to: fire walls, engine covers, side pods, suspension, under trays/floors, bulk heads and many more.

Nominal Size (Width)	Part #	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
28"	GRF28.0GL	.006"	150'	25'	Gold (GL)	8.13





- **Water Repellent When Properly Sealed**
- **Will Not Support Growth of Bacteria**
- **Disinfects Easily**
- **Adhesive Resists Most Cleaners and Disinfectants**

Stylish Fluid Protection For Wires & Cables

Our new L6 LIQUID WRAP (L6N) semi-rigid wraparound sleeving is engineered from tough braided polyester, and laminated with a layer of strong Mylar sheeting. This combination provides a strong and lightweight solution for any application that requires protection from repeated exposure to the elements.

The wraparound construction makes installation easy over existing assemblies or harnesses, and the extra wide adhesive strip ensures a positive, aggressive seal against damage from exposure.

L6N is available in 8' pre-cut sticks in Black.



The fluid resistance of Liquid Wrap sleeve makes it ideal for cable management in medical applications.



L6N is ideal for marine and automotive wiring harnesses.



Nominal Size	Wall Thickness	Part #	8' Pcs. Put-Ups				Available Colors	Lbs/10Pcs.
			Bulk Box	Box 8x8	Box 6x6	Box 4x4		
3/8"	.046"	L6N0.38	250	90	50	30	Black (BK)	1.80
1/2"	.046"	L6N0.50	250	70	40	25	Black (BK)	2.00
3/4"	.046"	L6N0.75	125	50	30	15	Black (BK)	3.60
1"	.046"	L6N1.00	88	30	20	9	Black (BK)	4.40
1 1/4"	.046"	L6N1.25	63	20	10	6	Black (BK)	5.20





Self-Wrapping Flat Design

Built on the same design as our Flexo F6 and F6 Woven, FLEXO F6 FLAT (F6Z) is a self-wrappable sleeve used to bundle and protect wire harnesses and cable assemblies in areas where space constraints restrict the use of traditional sleeving. Lightweight and durable, it maintains its flexibility for conforming to irregular shapes and bends during installation.

Woven from monofilament and multifilament polyester yarn, Flexo F6 Flat provides noise suppression and a high level of mechanical abrasion protection making it the perfect choice for use in automotive applications.

The low-profile design is great for channeling and protecting wires that run under the carpet or in the headliner of automobiles.

- **Lightweight**
- **Self-Wrapping**
- **Durable Woven Design**
- **Maintains Wires in Flat Shape**
- **Abrasion Resistant**
- **Low Profile**



F6 Flat is created to form protected wire conduits in tight spaces such as automotive interiors. Running under carpeting and in headliners can be a challenge without the F6 Flat keeping wires organized.



F6 Flat versus Flexo F6



F6 see page 10

Nominal Size	Part #	Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
1"	F6Z1.00BK	1.2"	50'	25'	Black (BK)	3.26
1 1/2"	F6Z1.50BK	1.6"	50'	25'	Black (BK)	4.34
1 3/4"	F6Z1.75BK	2.0"	50'	25'	Black (BK)	5.42
2 1/4"	F6Z2.25BK	2.4"	50'	25'	Black (BK)	6.51



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- **Economical and Easy to Install**
- **Braided From 12 Mil Nylon 6-6 Polyamide Monofilament Yarns**
- **Cut and Abrasion Resistant**
- **Expands up to 150%**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**

Reliability Recognized Around the World

NYLON® MONO (NYN) is commonly used in the automotive industry to protect hoses and wire harnesses from excessive wear. NYN's tough characteristics can increase hose life up to 300%. This lengthened life span is recognized in terms of reduced maintenance, a professional, attractive and durable appearance, and greater customer satisfaction. With the additional protection that NYN provides, it pays for itself throughout the life of your product.

NYN is braided from 12 mil Nylon 6-6 Polyamide monofilament. The tight braid construction covers fully and provides excellent surface abrasion resistance for assemblies exposed to excessive wear. The smooth nylon fibers and tight construction also reduce abrasion damage caused by hoses and harnesses rubbing against the inside wall of the sleeving.

NYN resists all automotive chemicals and won't rot or retain moisture.



NYN's qualities of toughness and ease of installation make it the choice of auto manufacturers for protecting and managing cables and wire harnesses.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	NYN0.13BK	3/32"	1/4"	1,000'	225'	Black (BK)	0.22
1/4"	NYN0.25BK	1/8"	3/8"	1,000'	200'	Black (BK)	0.31
3/8"	NYN0.38BK	1/4"	7/16"	500'	125'	Black (BK)	0.72
1/2"	NYN0.50BK	3/8"	3/4"	500'	100'	Black (BK)	1.03
5/8"	NYN0.63BK	7/16"	1"	500'	100'	Black (BK)	1.12
3/4"	NYN0.75BK	1/2"	1 1/4"	250'	75'	Black (BK)	1.47
1"	NYN1.00BK	5/8"	1 3/8"	250'	50'	Black (BK)	1.60
1 1/4"	NYN1.25BK	3/4"	1 1/2"	250'	50'	Black (BK)	1.78
1 1/2"	NYN1.50BK	1"	2"	200'	40'	Black (BK)	2.55
2"	NYN2.00BK	1 1/2"	3"	200'	50'	Black (BK)	2.26

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Full Coverage, Soft, Supple, Strong, and Attractive

Under the hood or across the floor, NYLON® MULTI (NMN) is the perfect sleeving product for protecting and improving the appearance of wires and cables. Nylon Multi has been used in military wire harness applications for many years.

NMN's fabric-like softness and flexibility hide surprisingly tough specifications. The high coverage sleeving meets or exceeds military specifications A-A-59301. NMN is highly resistant to abrasion, cuts, common automotive and marine chemicals, UV damage, and vibration. It will not rot or retain moisture.

The wide operating temperature range allows NMN to protect delicate wiring in engine compartments and near exhaust systems.

NMN creates a unique and attractive retro look when installed on a/v cables. Nylon Multi can also be custom braided in a variety of colors to complement any application.



- **Dense, Full Coverage Construction**
- **Economical and Easy to Install**
- **Cut and Abrasion Resistant**
- **Soft, Pliable, & Quiet**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**
- **Wide Operating Temperature Range**



NMN's qualities make it a viable choice for defense and military applications that call for flexibility, strength, and full coverage protection.

Nominal Size	Part #	Wall Thickness ±0.015"	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
1/8"	NMN0.13BK	.030"	1,000'	225'	Black (BK)	0.33
3/16"	NMN0.19BK	.030"	1,000'	200'	Black (BK)	0.56
1/4"	NMN0.25BK	.030"	500'	200'	Black (BK)	0.79
5/16"	NMN0.31BK	.030"	500'	125'	Black (BK)	0.99
3/8"	NMN0.38BK	.030"	500'	125'	Black (BK)	1.09
1/2"	NMN0.50BK	.030"	250'	100'	Black (BK)	1.74
5/8"	NMN0.63BK	.040"	250'	75'	Black (BK)	2.85
3/4"	NMN0.75BK	.040"	250'	75'	Black (BK)	3.15
7/8"	NMN0.88BK	.040"	200'	50'	Black (BK)	4.35
1"	NMN1.00BK	.050"	200'	50'	Black (BK)	5.15
1 1/4"	NMN1.25BK	.050"	125'	50'	Black (BK)	5.50
1 1/2"	NMN1.50BK	.060"	100'	50'	Black (BK)	6.46
1 3/4"	NMN1.75BK	.060"	100'	50'	Black (BK)	7.73
2"	NMN2.00BK	.060"	100'	50'	Black (BK)	9.01
2 1/2"	NMN2.50BK	.060"	100'	50'	Black (BK)	10.32
3"	NMN3.00BK	.060"	100'	50'	Black (BK)	11.00
Tight Weave						
3/8"	NMT0.38BK	.030"	250'	75'	Black (BK)	1.47



Specialized cutting services available. Contact your Account Representative for more info.

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- **Highly Reflective**
- **Easy to Install**
- **Cut And Abrasion Resistant**
- **Resists Gasoline and Engine Chemicals**



No special tools or skills required for installation.



See pg. 105 for bike kits.

Reflective, Split Semi Rigid Sleeving For Easy Installation

Ease of installation makes F6 REFLEX (F6R) the most suitable reflective sleeving for applications where disassembly of the components is not a viable option. Just open the lateral split and slip the sleeving over wires or cables. The sleeving will snap back in place and provide an extra measure of safety under low light conditions.

F6 Reflex is available in clear. Patents pending.

Under low light conditions, the retroreflective strands in FLEXO Reflex sleeving reflect light up to 1,500 times more efficiently than bright white sleeving.

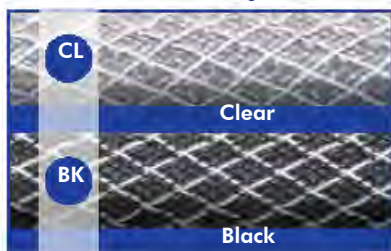


Nominal Size	Part #	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
3/16"	F6R0.19CL	0.025"	200'	100'	Clear (CL)	0.58



- **Highly Reflective**
- **Easy to Install**
- **Expands up to 150%**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**

Under low light conditions, the retroreflective strands in FLEXO Reflex sleeving reflect light up to 1,500 times more efficiently than bright white sleeving.



Reflects On-Axis Light 360° Up To 675'

FLEXO REFLEX (RFN) is our polyethylene terephthalate material braided together with highly reflective 3M Scotchlite retroreflective monofilament. This unique combination provides a high level of wire and cable protection with the added advantage of extraordinary 360 degree, on-axis reflectivity. RF is up to 1,500 times brighter than plain white under identical conditions and will provide high visibility safety on wires, hoses, cables, bicycle and motorcycle cables, stage wiring, and virtually anything else up to 675' away. Reflective even under low light conditions. Patent pending.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	RFN0.13CL	1/16"	1/4"	1,000'	100'	Clear (CL)	0.29
1/4"	RFN0.25	3/16"	3/8"	1,000'	100'	CL & BK	0.33
1/2"	RFN0.50	1/4"	1"	500'	100'	CL & BK	0.52
3/4"	RFN0.75	3/8"	1 3/8"	250'	75'	CL & BK	0.63

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Self-Fitting Protective Oversleeve

Flexo Noise Reduction (NRN) is a biaxially braided sleeving combining monofilament and multifilament PET yarns to create a full coverage expandable sleeve that substantially reduces noise on wires, tubes, and hoses. The lightweight, rugged construction also provides protection from abrasion and vibration that is far superior to foam harness sleeves. NRN expands for easy installation over splices and connectors and is flexible enough for tight radius applications. The braided construction will not hold moisture and drains quickly when immersed. NRN is used in body wiring harnesses, instrument panel and lighting wiring, cable & hose assemblies, and other limited access applications where noise reduction is desirable.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	NRN0.13BK	1/8"	3/16"	500'	100'	Black (BK)	0.3
1/4"	NRN0.25BK	1/4"	3/8"	500'	100'	Black (BK)	0.5
3/8"	NRN0.38BK	3/8"	1/2"	250'	100'	Black (BK)	0.9
1/2"	NRN0.50BK	1/2"	3/4"	250'	100'	Black (BK)	1.1
5/8"	NRN0.63BK	5/8"	1"	250'	100'	Black (BK)	1.5
3/4"	NRN0.75BK	3/4"	1 1/4"	250'	75'	Black (BK)	2.0
1"	NRN1.00BK	1"	1 5/8"	250'	50'	Black (BK)	2.4

- **Excellent Noise Suppression**
- **Abrasion Resistant**
- **Extremely Lightweight**
- **Attractive Appearance**
- **Does Not Trap Heat or Moisture**
- **Rated to 257°F**
- **Low Temperature Flexibility to -94°F**

Nostalgic Look and Feel With Modern Day Performance!

FLEXO F6 QUIET (F6Q) is specially engineered to reduce the noise associated with wire harnesses or cables installed in hard to reach areas such as door panels or dashboards.

The special construction suppresses noise from loose harnesses moving against body or dash panels. F6 Quiet also has a soft and flexible feel, reminiscent of an old style cotton loom, making it the perfect product for restoration projects.

Nominal Size	Part #	Wall Thickness ±0.005"	Bulk Spool	Box A	Box B	Available Colors	Lbs/100'
1/4"	F6Q0.25BK	.04"	2,000'	200'	100'	Black (BK)	1.00
3/8"	F6Q0.38BK	.04"	1,000'	150'	75'	Black (BK)	1.80
1/2"	F6Q0.50BK	.04"	800'	150'	75'	Black (BK)	2.00
3/4"	F6Q0.75BK	.04"	500'	100'	50'	Black (BK)	3.00
1 1/4"	F6Q1.25BK	.04"	250'	75'	25'	Black (BK)	4.00

- **Retro Look for Audio Cables**
- **Soft Classic Cotton Loom Feel**
- **Cut and Abrasion Resistant**
- **Cuts Cleanly with Hot Knife**



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- **Durable and Reusable Design**
- **Works Well in Both Film and Video Shoots**
- **Patent Pending**
- **Covers Wires and Set Pieces**

Keyable Wrap For Special Effects Professionals

Blue/green screen was originally invented as a film technique to separate the actors and composite them over another background. The reason both green and blue are used is because they are the least prominent colors in our skin tone. The goal in using a green or a blue screen is to isolate the subject.

Following the same concept, Techflex engineers have designed STUDIO KEY WRAP (SKN), a reversible, bright blue/green sleeving, which is perfect cover-up for wires on your set. During film editing, you can easily key-out the green and blue colors, so you will be left with just your subject, without any background or wires hanging around, and set pieces.

Studio Key Wrap is made of durable, two sided vinyl, with blue on one side and green on the other, and it has hook and loop for quick and easy installation. Our sleeving is thick enough not to let the light pass through it and also protects your cables against moisture.



Whether your studio is set up for green or blue, reversible Key Wrap has you covered.



Patent # US 8,205,314 B1

Nominal Size	Part #	Wall Thickness	Hook & Loop	Standard Spool Put-Ups	Available Colors	Lbs/ 10'
				Spool Length		
2"	SKN2.00BG	.048"	1"	10'	Blue/Green (BG)	2.25
2 1/2"	SKN2.50BG	.048"	1"	10'	Blue/Green (BG)	2.80

*Contact your account representative for additional sizes.



Studio Key Wrap works great for temporarily covering valuable light booms and stationary poles.

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The Ultimate Termination Solution For Flexo Sleeving

Our new patented Flexo Mounting System (FMS) has been created to attractively terminate applications with a secure mountable end. This new Mounting System is engineered to work great with Flexo PET 1 1/2" & 1 3/4", (pg. 6) and with Flexo Clean Cut 1 1/2" (pg. 13).

The installer friendly part clamps securely onto the sleeve without attaching to your wiring for ideal strain relief. The two piece construction removes any limitations in size created by large connectors and preserves the sleeving expandability.

Automotive grade glass filled nylon construction is suitable for a variety of applications.

At the heart of the FMS is the Snap Ring Collar. When used in conjunction with the pressure ring it permanently holds the sleeve in place.



When used in conjunction with the Techflex wall plate, the FMS creates a lasting terminated assembly.



Patent # US 8,157,820 B1

Easy Field Installation



Universal Screw Mount



Easy Clip, No Special Tool Required



Fits In Single Gang Wall Box



Super Strong Strain Relief For Your Wires



Part #	Description	Available Colors	Lbs/Pkg.
FMS1.50FL	Packaging of a Single Flange	Black (BK)	0.03
FMS1.50FL5	Packaging of 5 Pc. Flange	Black (BK)	0.15
FMP1.50PLATE	Wall Plate only (includes 2 screws)	Black (BK), Almond (BE) & White (WH)	0.09
FMS1.50FK	Finishing Pack: 1 Flange & 1 Wall Plate	Black (BK), *Almond (BE) & *White (WH) (*Plate only)	0.12



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- **Tightly Woven Ballistic Nylon Construction**
- **Heavy Duty Hook Closure for Carpet Installation**
- **Repels Liquids**
- **Resists and Prevents Damage from UV, Abrasion, & Chemicals**

Abrasion Protection for High-Traffic Carpeting with Easy On, Easy Off Hook Closure

Black (BK)



Best Applied to:



Loop Pile



Cut & Loop Pile



Patterned Loop Pile

Not Recommended for:



Cut Pile

DURA RACE (DRN) is the solution for hiding and protecting wires that are exposed on carpeted areas. Dura Race is braided from a tightly woven ballistic Nylon.

With industrial strength hook closure, this covering will adhere to most industrial and high traffic carpeting, making it easy to lay over wires, cables, or hoses keeping them protected from abrasion. Dura Race tightly holds the application close to the carpeting, avoiding trips or falls on free lying wires.

DRN provides greater abrasion resistance and water repellency compared to other Nylon® sleeves.



Dura Race Safety Stripe is a great safety enhancement for offices and other cabled environments.

Safety Stripe (SS)

Nominal Size	Part #	Wall Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
3"	DRN3.00BK	.012"	150'	25'	Black (BK) only	4.29
4"	DRN4.00	.012"	150'	25'	Black (BK) or Safety Stripe (SS)	5.26
5"	DRN5.00	.012"	150'	25'	Black (BK) or Safety Stripe (SS)	7.00





Increased Friction on Smooth Surfaces Minimizes Slipping & Accidents

FLEXO NON-SKID (NSN) is a unique combination of our standard PET material braided together with high-friction polymer filaments.

NSN is engineered primarily for wire and cable management on smooth floor, high traffic environments such as broadcast studios where someone might inadvertently step on a cable snake and slip.

As long as there's no excessive pressure on the cables protected with NSN, the entire snake glides easily and quietly along the floor. When local pressure is applied, such as when someone steps on the cable, the high friction material comes in contact with the floor and reduces the possibility of the cable sliding out from underfoot. NSN is substantially less "slippery" than our regular PET, yet provides the same level of flexibility and protection from cable wear and abrasion.

- **Manages & Protects Cable Bundles**
- **Increases Safety in Foot Traffic Areas**
- **Economical and Easy to Install**
- **Cut and Abrasion Resistant**
- **Expands up to 150%**



Non-Skid is ideal for smooth floor areas such as photo, film, and TV studios where cable snakes, high foot traffic, and low light combine to create a slipping hazard.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Up		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	NSN0.25	1/8"	7/16"	1,000'	200'	NY, SS & BK	0.44
3/8"	NSN0.38	3/16"	1/2"	500'	125'	NY, SS & BK	0.57
1/2"	NSN0.50	1/4"	3/4"	500'	100'	NY, SS & BK	0.89
5/8"	NSN0.63	3/8"	1"	500'	75'	NY, SS & BK	1.04
3/4"	NSN0.75	1/2"	1 1/4"	250'	70'	NY & BK	1.25
1 1/4"	NSN1.25	3/4"	1 3/4"	200'	50'	NY, SS & BK	1.96
1 1/2"	NSN1.50	1"	2"	200'	40'	NY, SS & BK	2.25
2"	NSN2.00	1 1/2"	3 1/2"	200'	50'	NY & BK	2.75





- **Economical and Easy to Install**
- **Expands up to 150%**
- **Halogen Free**
- **Conductive Mylar for Shielding Applications**

Lightweight, Economical Metallic Alternative

When your needs don't require the durability or toughness of our CH or CX sleeving, FLEXO MYLAR® (MYN) is an ideal, economical alternative. MYN is perfect for cosmetic applications, and a wide variety of installation methods create dramatic results.

Audiophile cable builders often use MY under other sleeving types to create a unique, custom visual effect. Applications that combine MY with a more robust sleeving will withstand abrasion and general use and still have the custom, "Wow!" effect cable fabricators are looking for.

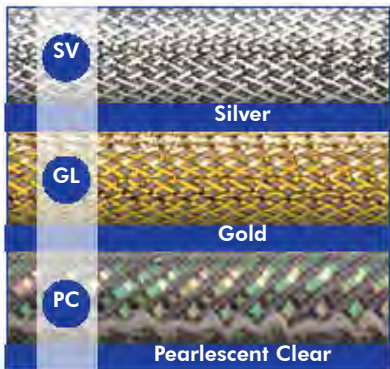
Braided from thin metallic Mylar® strips along with transparent PET monofilament, MYN creates a sparkling, highly reflective effect. MYN can be used instead of Mylar sheets to wrap and bundle cables.



Light weight and economical make MYN an ideal product for designing and tying fishing lures of all types and sizes. Several world records have been set with lures constructed with Techflex sleeving.



Spectacular highlights and unique visual effects are achieved when Mylar is combined with other sleeving types.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	MYN0.25	1/8"	7/16"	1,000'	200'	GL & SV	0.17
1/2"	MYN0.50	1/4"	1"	500'	100'	GL & SV	0.35
3/4"	MYN0.75	5/8"	1 3/4"	250'	75'	GL & SV	0.52

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	MYE0.13PC	1/16"	5/32"	1,000'	225'	PC	0.08
1/4"	MYE0.25PC	5/32"	5/16"	1,000'	200'	PC	0.10
3/8"	MYE0.38PC	5/16"	15/32"	500'	125'	PC	0.11
1/2"	MYE0.50PC	1/4"	3/4"	500'	100'	PC	0.42

Mylar® is a registered trademark of DuPont Corporation.





The Look of Stainless Steel Braid with an Upside

No installation hassles. No surface abrasion. No ridiculous expense. Just the look of polished braided steel.

These heavy duty metallized Mylar® sleeves are ideal for dressing up any application with the look of braided stainless steel. The standard CHROME (CHN) has a more open look, with transparent PET braided together with the metallic strands, to create a slight glimmer when light strikes it, and to allow the color of the application to come through for a special effect. Our X-tra coverage product, CHROME XC (CXN), provides fuller coverage with no transparent elements in the braided construction and results in a smooth, continuous metallic shine on any application.



- **Economical and Easy to Install**
- **Cut and Abrasion Resistant**
- **Halogen Free**
- **Resists Gasoline and Engine Chemicals**
- **Ideal for Exposed Applications**
- **Conductive Mylar for Shielding Applications**



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	CHN0.25SV	3/16"	1/2"	500'	125'	Silver (SV)	0.33
3/8"	CHN0.38SV	1/4"	5/8"	250'	100'	Silver (SV)	0.39
1/2"	CHN0.50SV	3/8"	3/4"	250'	80'	Silver (SV)	0.47



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	CXN0.25	1/4"	5/16"	500'	125'	SV & GL	0.25
5/16"	CXN0.31	5/16"	1/2"	250'	100'	SV & GL	0.36
1/2"	CXN0.50	1/2"	3/4"	250'	80'	SV & GL	0.52
3/4"	CXN0.75	3/4"	1 3/8"	200'	40'	SV & GL	0.83
1 1/4"	CXN1.25	1 1/4"	2"	100'	30'	SV & GL	1.25
1 1/2"	CXN1.50	1 1/2"	3"	100'	25'	SV & GL	1.50



Application possibilities include installing clear PVC Heatshrink Tubing (pg. 82) over wires or hoses covered with Chrome or Chrome XC, and also using the Chrome Cable Ties (pg. 97) for a unique installation.



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- **Easy to Engineer to Unique Specifications**
- **Economical, Long Lasting Filtration Solutions**
- **Wide Range of Available Materials**
- **Can Be Fabricated into Custom Configurations**
- **Reduced Wall Thickness**

High Density Fine Thread Sleeving

One of the most unique applications for expandable braided sleeving is the filtration of small particles from flowing liquids. Our standard FLEXO 6 MIL (FFN) is a great off the shelf solution.

Flexo 6 Mil uses chemical resistant PET fiber to create an ultra flexible sleeve. The small monofilaments bond easily when heated to create lasting shapes, or with one end sealed completely, a durable sock.

Also sold by the name Filter Flexo.



Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/8"	FFN0.13CL	1/16"	1/2"	1,000'	225'	Clear (CL)	0.18
1/4"	FFN0.25CL	3/16"	3/8"	1,000'	200'	Clear (CL)	0.33
5/16"	FFN0.31CL	5/16"	7/16"	500'	150'	Clear (CL)	0.43
3/8"	FFN0.38CL	5/16"	5/8"	500'	125'	Clear (CL)	0.53
1/2"	FFN0.50CL	1/2"	3/4"	500'	100'	Clear (CL)	0.82
5/8"	FFN0.63CL	1/2"	1"	250'	100'	Clear (CL)	1.00



Ultra Thin for Specialized Fiber Applications

Braided from ultra fine Nylon monofilament fibers, FLEXO THIN (FTN) was created for applications where weight and wall thickness play a critical role. This material is strong enough to bundle multiple cables and fibers while naturally conforming to these types of applications. Many of today's micro optics and precision electronic harnesses use Flexo Thin to flexibly and attractively manage and route tiny assemblies.

1/4" Flexo Thin's enormous expandability allows the management of large bundles of very fine wiring and optical cables.

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/16"	FTN0.06CL	1/16"	3/16"	1,000'	200'	Clear (CL)	0.013
1/4"	FTN0.25CL	1/8"	1"	500'	200'	Clear (CL)	0.043





Carbon Fiber Sleeve for High Strength Tubular Structures

Fabricators know that resin coated carbon fiber structures are stronger and lighter than virtually any other construction types. CARBON FIBER construction techniques are appearing in everything from state of the art military and aerospace airframes to hockey sticks, fishing rods, and model cars.

Our Carbon Fiber braided sleeving provides a strong, biaxial carbon fiber matrix for stiff, lightweight tubular structures up to 3" in diameter without seams or overlap. The tightly braided thick flexible sleeving will form itself to accommodate elliptical or asymmetrical profiles and provide the full coverage required for radial stability and torsional strength. Carbon Fiber constructions can be cut, drilled, sanded, and tooled with commonly available power or hand tools. They can be painted or left with the braid structure exposed.

- **Ideal for Strong, Lightweight Tubular Structures**
- **Variety of Diameters, Wall Thicknesses, and Braid Patterns**
- **Fast Turnaround on Custom Requirements**
- **Custom Lengths Available**



Strong, lightweight, and stable carbon fiber tubes are easy to machine and finish, and mate well with metal fittings.

	Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
				Min.	Max.	Bulk Spool	Shop Spool		
CARBON LIGHT	1/4"	CAL0.25BK	.013"	1/8"	5/16"	500'	100'	Black (BK)	0.38
	1/2"	CAL0.50BK	.013"	1/4"	5/8"	250'	50'	Black (BK)	0.75
	3/4"	CAL0.75BK	.013"	5/16"	7/8"	250'	50'	Black (BK)	1.21
	1"	CAL1.00BK	.013"	3/8"	1 1/16"	200'	50'	Black (BK)	1.51
	1 1/4"	CAL1.25BK	.013"	1/2"	1 1/2"	125'	25'	Black (BK)	1.81
	1 1/2"	CAL1.50BK	.013"	5/8"	1 3/4"	100'	25'	Black (BK)	2.26
	2"	CAL2.00BK	.013"	3/4"	2 3/16"	100'	25'	Black (BK)	2.72
CARBON MEDIUM	1/2"	CAN0.50BK	.020"	1/4"	5/8"	250'	50'	Black (BK)	1.21
	3/4"	CAN0.75BK	.020"	5/16"	7/8"	250'	50'	Black (BK)	1.81
	1"	CAN1.00BK	.020"	7/16"	1 1/16"	200'	50'	Black (BK)	2.42
	1 1/4"	CAN1.25BK	.020"	9/16"	1 1/2"	125'	25'	Black (BK)	3.02
	1 1/2"	CAN1.50BK	.020"	3/4"	1 3/4"	100'	25'	Black (BK)	3.62
	2"	CAN2.00BK	.020"	7/8"	2 3/16"	100'	25'	Black (BK)	4.52
	2 1/2"	CAN2.50BK	.020"	1 1/16"	3"	100'	25'	Black (BK)	5.43
CARBON HEAVY	3/4"	CAH0.75BK	.030"	3/8"	7/8"	250'	50'	Black (BK)	2.72
	1"	CAH1.00BK	.030"	1/2"	1 1/16"	200'	50'	Black (BK)	3.62
	1 1/4"	CAH1.25BK	.030"	11/16"	1 1/2"	125'	25'	Black (BK)	4.83
	1 1/2"	CAH1.50BK	.030"	13/16"	1 3/4"	100'	25'	Black (BK)	5.43
	2"	CAH2.00BK	.030"	1"	2 3/16"	100'	25'	Black (BK)	7.25
	2 1/2"	CAH2.50BK	.030"	1 1/4"	3"	100'	25'	Black (BK)	9.09
	3"	CAH3.00BK	.030"	1 1/2"	3 1/2"	50'	25'	Black (BK)	10.87





- **Rated to 311°F Class F (155°C)**
- **Grade A (7,000 V) Mil-I-3190/3**
- **Grade C (2,500 V)**
- **Cut and Abrasion Resistant**
- **Excellent Low Temp. Flexibility**
- **Resists Acids and Most Organic Solvents**

Acrylic Resin Coated Fiberglass Sleeving Grade A & C

ACRYLIC FLEX GLASS (AG) sleeving is a heat-treated, tightly braided fiberglass sleeving coated with a dielectric acrylic resin. This durable sleeving will withstand mechanical stress and holds its dielectric strength on all bends.

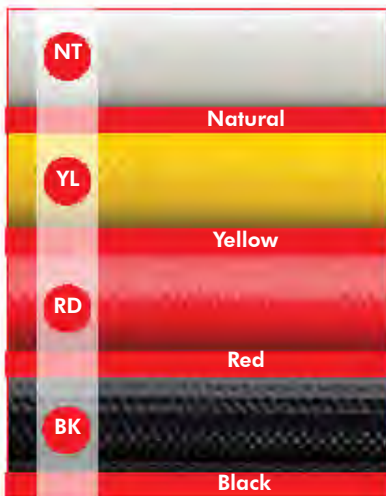
Acrylic Flex Glass is used in applications such as relays, radio circuits, transformers, and lead/crossover protection on motors. Highly resistant to acids and solvents, and able to withstand tough assembly handling.

AG sleeving is recommended for thermal requirements from -13°F to 311°F ranges.

The superior electrical properties of ACRYLIC FLEX GLASS enable it to provide its rated dielectric strength both during and after your application's demanding requirements.



High temperature fiberglass base material makes Flex Glass a great solution for demanding lighting applications.



Nominal Size	Diameter	Part #	Grade	Part #	Grade	Standard Spool Put-Ups		Available Colors
						Bulk Spool	Shop Spool	
24	0.022"	AGAG.24	A	AGCG.24	C	500'	250'	NT, YL, RD, BK
22	0.027"	AGAG.22	A	AGCG.22	C	500'	250'	NT, YL, RD, BK
20	0.034"	AGAG.20	A	AGCG.20	C	500'	250'	NT, YL, RD, BK
18	0.042"	AGAG.18	A	AGCG.18	C	500'	250'	NT, YL, RD, BK
16	0.053"	AGAG.16	A	AGCG.16	C	500'	250'	NT, YL, RD, BK
14	0.066"	AGAG.14	A	AGCG.14	C	500'	250'	NT, YL, RD, BK
12	0.085"	AGAG.12	A	AGCG.12	C	250'	100'	NT, YL, RD, BK
11	0.095"	AGAG.11	A	AGCG.11	C	250'	100'	NT, YL, RD, BK
10	0.106"	AGAG.10	A	AGCG.10	C	250'	100'	NT, YL, RD, BK
9	0.118"	AGAG.09	A	AGCG.09	C	250'	100'	NT, YL, RD, BK
8	0.133"	AGAG.08	A	AGCG.08	C	250'	100'	NT, YL, RD, BK
7	0.148"	AGAG.07	A	AGCG.07	C	250'	100'	NT, YL, RD, BK
6	0.166"	AGAG.06	A	AGCG.06	C	250'	100'	NT, YL, RD, BK
5	0.186"	AGAG.05	A	AGCG.05	C	250'	100'	NT, YL, RD, BK
4	0.208"	AGAG.04	A	AGCG.04	C	250'	100'	NT, YL, RD, BK
3	0.234"	AGAG.03	A	AGCG.03	C	250'	100'	NT, YL, RD, BK
2	0.263"	AGAG.02	A	AGCG.02	C	250'	100'	NT, YL, RD, BK
1	0.294"	AGAG.01	A	AGCG.01	C	100'	50'	NT, YL, RD, BK
0	0.330"	AGAG.00	A	AGCG.00	C	100'	50'	NT, YL, RD, BK
3/8"	0.375"	AGA0.38	A	AGC0.38	C	100'	50'	NT, YL, RD, BK
7/16"	0.438"	AGA0.44	A	AGC0.44	C	100'	50'	NT, YL, RD, BK
1/2"	0.500"	AGA0.50	A	AGC0.50	C	100'	50'	NT, YL, RD, BK
5/8"	0.625"	AGA0.63	A	AGC0.63	C	100'	50'	NT
3/4"	0.750"	AGA0.75	A	AGC0.75	C	100'	50'	NT
7/8"	0.875"	AGA0.88	A	AGC0.88	C	100'	50'	NT
1"	1.000"	AGA1.00	A	AGC1.00	C	100'	50'	NT



Vinyl Coated Fiberglass Sleeving Grade A & C

VINYL FLEX GLASS (VG) sleeving is a heat-treated, tightly braided fiberglass sleeving coated with a firmly bonded plasticized polyvinylchloride film.

This durable sleeving will withstand mechanical stress and holds its dielectric strength on all bends.

Vinyl Flex Glass is used for supplementary insulation on transformer, motor, generator, and resistor leads. Also other applications include television, radio, and other electronic circuits where it can be pushed back to permit soldering. Highly resistant to acids and solvents, and will withstand tough assembly handling.

The vinyl compound is designed for continuous operation at 130°C temperatures, while providing excellent abrasion and cut-through resistance.

- **Rated to 266°F Class H (130°C)**
- **Grade A (8,000 V) Mil-I-003190/2**
- **Cut-Through and Abrasion Resistant**
- **Excellent Low Temp. Flexibility**

Nominal Size	Part #	Diameter Minimum	Grade	Part #	Grade	Standard Spool Put-Ups		Available Colors
						Bulk Spool	Shop Spool	
24	VGAG.24	0.020"	A	VGCG.24	C	500'	250'	WH,YL,GN,BL,BK
22	VGAG.22	0.025"	A	VGCG.22	C	500'	250'	WH,YL,GN,BL,BK
20	VGAG.20	0.032"	A	VGCG.20	C	500'	250'	WH,YL,GN,BL,BK
18	VGAG.18	0.040"	A	VGCG.18	C	500'	250'	WH,YL,GN,BL,BK
17	VGAG.17	0.045"	A	VGCG.17	C	500'	250'	WH,YL,GN,BL,BK
16	VGAG.16	0.051"	A	VGCG.16	C	500'	250'	WH,YL,GN,BL,BK
15	VGAG.15	0.057"	A	VGCG.15	C	500'	250'	WH,YL,GN,BL,BK
14	VGAG.14	0.064"	A	VGCG.14	C	500'	250'	WH,YL,GN,BL,BK
13	VGAG.13	0.072"	A	VGCG.13	C	250'	100'	WH,YL,GN,BL,BK
12	VGAG.12	0.081"	A	VGCG.12	C	250'	100'	WH,YL,GN,BL,BK
11	VGAG.11	0.091"	A	VGCG.11	C	250'	100'	WH,YL,GN,BL,BK
10	VGAG.10	0.102"	A	VGCG.10	C	250'	100'	WH,YL,GN,BL,BK
9	VGAG.09	0.114"	A	VGCG.09	C	250'	100'	WH,YL,GN,BL,BK
8	VGAG.08	0.129"	A	VGCG.08	C	250'	100'	WH,YL,GN,BL,BK
7	VGAG.07	0.144"	A	VGCG.07	C	250'	100'	WH,YL,GN,BL,BK
6	VGAG.06	0.162"	A	VGCG.06	C	250'	100'	WH,YL,GN,BL,BK
5	VGAG.05	0.182"	A	VGCG.05	C	250'	100'	WH,YL,GN,BL,BK
4	VGAG.04	0.204"	A	VGCG.04	C	250'	100'	WH,YL,GN,BL,BK
3	VGAG.03	0.229"	A	VGCG.03	C	250'	100'	WH,YL,GN,BL,BK
2	VGAG.02	0.258"	A	VGCG.02	C	250'	100'	WH,YL,GN,BL,BK
1	VGAG.01	0.289"	A	VGCG.01	C	100'	50'	WH,YL,GN,BL,BK
0	VGAG.00	0.325"	A	VGCG.00	C	100'	50'	WH,YL,GN,BL,BK
3/8"	VGA0.38	0.375"	A	VGC0.38	C	100'	50'	WH,YL,GN,BL,BK
7/16"	VGA0.44	0.438"	A	VGC0.44	C	100'	50'	WH,YL,GN,BL,BK
1/2"	VGA0.50BK	0.500"	A	VGC0.50BK	C	100'	50'	BK
5/8"	VGA0.63BK	0.625"	A	VGC0.63BK	C	100'	50'	BK
3/4"	VGA0.75BK	0.750"	A	VGC0.75BK	C	100'	50'	BK
7/8"	VGA0.88BK	0.875"	A	VGC0.88BK	C	100'	50'	BK
1"	VGA1.00BK	1.000"	A	VGC1.00BK	C	100'	50'	BK





- **Rated to 392°F Class H (200°C)**
- **Flame Retardant**
- **Grade A (7,000 V) Mil-I-3190/6**
- **Grade C (2,500 V)**
- **Cut and Abrasion Resistant**
- **Excellent Low Temp. Flexibility**
- **Resists Acids, Alkalis, Organic Solvents, & Aliphatic Hydrocarbons**

FR Silicone Coated Fiberglass Sleeving Grade A & C

FLAME RETARDANT SILICONE FLEX GLASS (SF) sleeving is an extremely flexible braided fiberglass sleeve coated with a flame retardant elastomeric silicone rubber sheath.

The unique self-fitting construction allows SF sleeving to expand slightly for easy installation, and provides a snug fit for minimum movement and reduced internal abrasion.

SF sleeving is rated to 392°F. (Class H), is abrasion resistant, and maintains its flexibility in low temperature environments. SF is available in a very wide range of sizes, and is ideal for use in appliance assemblies, wire harnesses, transformer leads, power supplies, motor coil, and heater leads.



Tomorrow's electric vehicles are more compact with higher power. Flex Glass FR is designed to control up to 7,000 volts in tight spaces safely and efficiently.



Nominal Size	Diameter	Part #	Grade	Available Colors	Part #	Grade	Standard Spool Put-Ups		Available Colors
							Bulk Spool	Shop Spool	
24	0.022"	SFAG.24	A	WH,RD,BK	SFCG.24	C	500'	250'	WH,RD,BK
22	0.027"	SFAG.22	A	WH,RD,BK	SFCG.22	C	500'	250'	WH,RD,BK
20	0.034"	SFAG.20	A	WH,RD,BK	SFCG.20	C	500'	250'	WH,RD,BK
18	0.042"	SFAG.18	A	WH,RD,BK	SFCG.18	C	500'	250'	WH,RD,BK
16	0.053"	SFAG.16	A	WH,RD,BK	SFCG.16	C	500'	250'	WH,RD,BK
14	0.066"	SFAG.14	A	WH,RD,BK	SFCG.14	C	500'	250'	WH,RD,BK
12	0.085"	SFAG.12	A	WH,RD,BK	SFCG.12	C	250'	100'	WH,RD,BK
10	0.106"	SFAG.10	A	WH,RD,BK	SFCG.10	C	250'	100'	WH,RD,BK
9	0.118"	SFAG.09	A	WH,RD,BK	SFCG.09	C	250'	100'	WH,RD,BK
8	0.133"	SFAG.08	A	WH,RD,BK	SFCG.08	C	250'	100'	WH,RD,BK
7	0.148"	SFAG.07	A	WH,RD,BK	SFCG.07	C	250'	100'	WH,RD,BK
6	0.166"	SFAG.06	A	WH,RD,BK	SFCG.06	C	250'	100'	WH,RD,BK
5	0.186"	SFAG.05	A	WH,RD,BK	SFCG.05	C	250'	100'	WH,RD,BK
4	0.208"	SFAG.04	A	WH,RD,BK	SFCG.04	C	250'	100'	WH,RD,BK
3	0.234"	SFAG.03	A	WH,RD,BK	SFCG.03	C	250'	100'	WH,RD,BK
2	0.263"	SFAG.02	A	WH,RD,BK	SFCG.02	C	250'	100'	WH,RD,BK
1	0.294"	SFAG.01	A	WH,RD,BK	SFCG.01	C	100'	50'	WH,RD,BK
0	0.330"	SFAG.00	A	WH,RD,BK	SFCG.00	C	100'	50'	WH,RD,BK
3/8"	0.375"	SFA0.38	A	WH,RD,BK	SFC0.38	C	100'	50'	WH,RD,BK
7/16"	0.438"	SFA0.44	A	WH,RD,BK	SFC0.44	C	100'	50'	WH,RD,BK
1/2"	0.500"	SFA0.50	A	WH,RD,BK	SFC0.50	C	100'	50'	WH,RD,BK
5/8"	0.625"	SFA0.63	A	WH,RD,BK	SFC0.63	C	100'	50'	WH,RD,BK
3/4"	0.750"	SFA0.75	A	WH,RD,BK	SFC0.75	C	100'	50'	WH,RD,BK
7/8"	0.875"	SFA0.88	A	WH,RD,BK	SFC0.88	C	100'	50'	WH,RD,BK
1"	1.000"	SFA1.00	A	WH,RD,BK	SFC1.00	C	100'	50'	WH,RD,BK
1 1/4"	1.250"	SFA1.25	A	WH,RD,BK	N/A	N/A	100'	50'	N/A
1 1/2"	1.500"	SFA1.50	A	WH,RD,BK	N/A	N/A	100'	50'	N/A



Heavy Wall Silicone Coated Fiberglass Sleeving

HEAVY WALL FLEX GLASS (SG) is engineered from a high quality braided fiberglass sleeve surrounded by a heavy silicone rubber coating. SG expands slightly for easy installation, and is tough and flexible enough for use in tight radius applications. The silicone coating will expand and flex without cracks or fractures, and the treated fiberglass minimizes end fray and dusting during assembly and use. Heavy Wall Flex Glass resists dielectric breakdown caused by operational stresses.

SG is highly abrasion resistant and remains flexible in low temperature applications. It is also resistant to common chemicals, inorganic acids, alkalis, and aliphatic hydrocarbons. Rated to 392°F. (Class H), SG is in extensive use in dry-type transformer applications, and is ideal for terminal insulation and protection in a wide range of operating environments.

- **Rated to 392°F Class H (200°C)**
- **15,000 V**
- **Excellent Low Temp. Flexibility**
- **Low Temp. Brittle Point Below -121°F**
- **Resists Inorganic Acids, Alkalis, and Aliphatic Hydrocarbons**



Nominal Size	Diameter	Part #	Grade	Standard Spool Put-Ups		Available Colors
				Bulk Spool	Shop Spool	
14	0.066"	SGHG.14RD	15,000 V	500'	N/A	Red (RD)
12	0.085"	SGHG.12RD	15,000 V	250'	N/A	Red (RD)
10	0.106"	SGHG.10RD	15,000 V	250'	N/A	Red (RD)
9	0.118"	SGHG.09RD	15,000 V	250'	N/A	Red (RD)
8	0.133"	SGHG.08RD	15,000 V	250'	N/A	Red (RD)
7	0.148"	SGHG.07RD	15,000 V	250'	N/A	Red (RD)
6	0.166"	SGHG.06RD	15,000 V	250'	N/A	Red (RD)
5	0.186"	SGHG.05RD	15,000 V	250'	N/A	Red (RD)
4	0.208"	SGHG.04RD	15,000 V	250'	N/A	Red (RD)
3	0.234"	SGHG.03RD	15,000 V	250'	N/A	Red (RD)
2	0.263"	SGHG.02RD	15,000 V	250'	N/A	Red (RD)
1	0.294"	SGHG.01RD	15,000 V	250'	N/A	Red (RD)
0	0.330"	SGHG.00RD	15,000 V	100'	N/A	Red (RD)
3/8"	0.375"	SGH0.38RD	15,000 V	100'	N/A	Red (RD)
7/16"	0.438"	SGH0.44RD	15,000 V	100'	N/A	Red (RD)
1/2"	0.500"	SGH0.50RD	15,000 V	100'	N/A	Red (RD)
5/8"	0.625"	SGH0.63RD	15,000 V	100'	N/A	Red (RD)
3/4"	0.750"	SGH0.75RD	15,000 V	100'	N/A	Red (RD)
7/8"	0.875"	SGH0.88RD	15,000 V	50'	N/A	Red (RD)
1"	1.000"	SGH1.00RD	15,000 V	50'	N/A	Red (RD)





- **Shrink Temp. 194°F**
- **Flame Retardant**
- **Versatile & Economical Termination Solution**
- **Wide Selection of Sizes and Colors**
- **Resists Common Automotive Chemicals**
- **Mil-I-23053/5**

Shrinkflex heatshrink tubing is the ideal way to create a tight, professional finish on any wire, hose, or cable management project.

2:1 Polyolefin Heatshrink Tubing

When economy is priority, 2:1 Shrinkflex heatshrink tubing is the answer. Not as versatile as a high ratio shrink product, 2:1 will still slide easily over small inline splices and connectors and provide a tight seal in many applications.



Shrinkflex shop spools fit into our dispenser kit (pg. 101) for easy storage and organization.

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
3/64"	H2N0.05	1.3mm	0.6mm	500'	25'	11	0.16
1/16"	H2N0.06	1.8mm	0.8mm	500'	25'	11	0.22
1/8"	H2N0.13	3.4mm	1.6mm	500'	25'	11	0.43
3/16"	H2N0.19	5.0mm	2.4mm	500'	25'	BK & CL	0.60
1/4"	H2N0.25	6.4mm	3.2mm	250'	25'	11	1.04
3/8"	H2N0.38	9.5mm	4.8mm	200'	25'	11	1.31
1/2"	H2N0.50	12.7mm	6.4mm	200'	25'	11	1.52
5/8"	H2N0.63	16.7mm	8.0mm	100'	25'	11	2.12
3/4"	H2N0.75	19.1mm	9.4mm	100'	25'	11	2.58
1"	H2N1.00	25.7mm	12.7mm	100'	25'	11	3.74
1 1/2"	H2N1.50	38.1mm	19.1mm	100'	25'	11	5.53
2"	H2N2.00	51.0mm	25.4mm	100'	25'	11	8.25
3"	H2N3.00	76.2mm	38.1mm	100'	25'	BK,CL,GN,GY,RD,WH,YL	13.15
4"	H2N4.00BK	101.6mm	50.8mm	100'	25'	BK	23.50



3:1 Polyolefin Heatshrink Tubing

The high shrink ratio of 3:1 Shrinkflex heatshrink tubing ensures that the tubing will slip over large connectors or plugs and still provide a tight, professional seal.



Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/16"	H3N0.06	1.5mm	0.5mm	500'	25'	11	0.18
1/8"	H3N0.13	3.0mm	1.0mm	500'	25'	11 & YG	0.37
3/16"	H3N0.19	4.5mm	1.5mm	250'	25'	11 & YG	0.55
1/4"	H3N0.25	6.0mm	2.0mm	250'	25'	11 & YG	0.74
3/8"	H3N0.38	9.0mm	3.0mm	200'	25'	11 & YG	1.01
1/2"	H3N0.50	12.0mm	4.0mm	200'	25'	11 & YG	1.28
3/4"	H3N0.75	18.8mm	6.0mm	100'	25'	11 & YG	1.87
1"	H3N1.00	24.0mm	8.0mm	100'	25'	11 & YG	2.86
1 1/2"	H3N1.50	38.0mm	13.0mm	100'	25'	11	4.51
2"	H3N2.00	50.0mm	17.0mm	100'	25'	11	6.33
3"	H3N3.00	75.0mm	25.4mm	100'	20'	BK	10.33



*Contact your account representative for heatshrink cutting & printing services.



Shrinkflex - printed with your logo or part number for branding and identification.

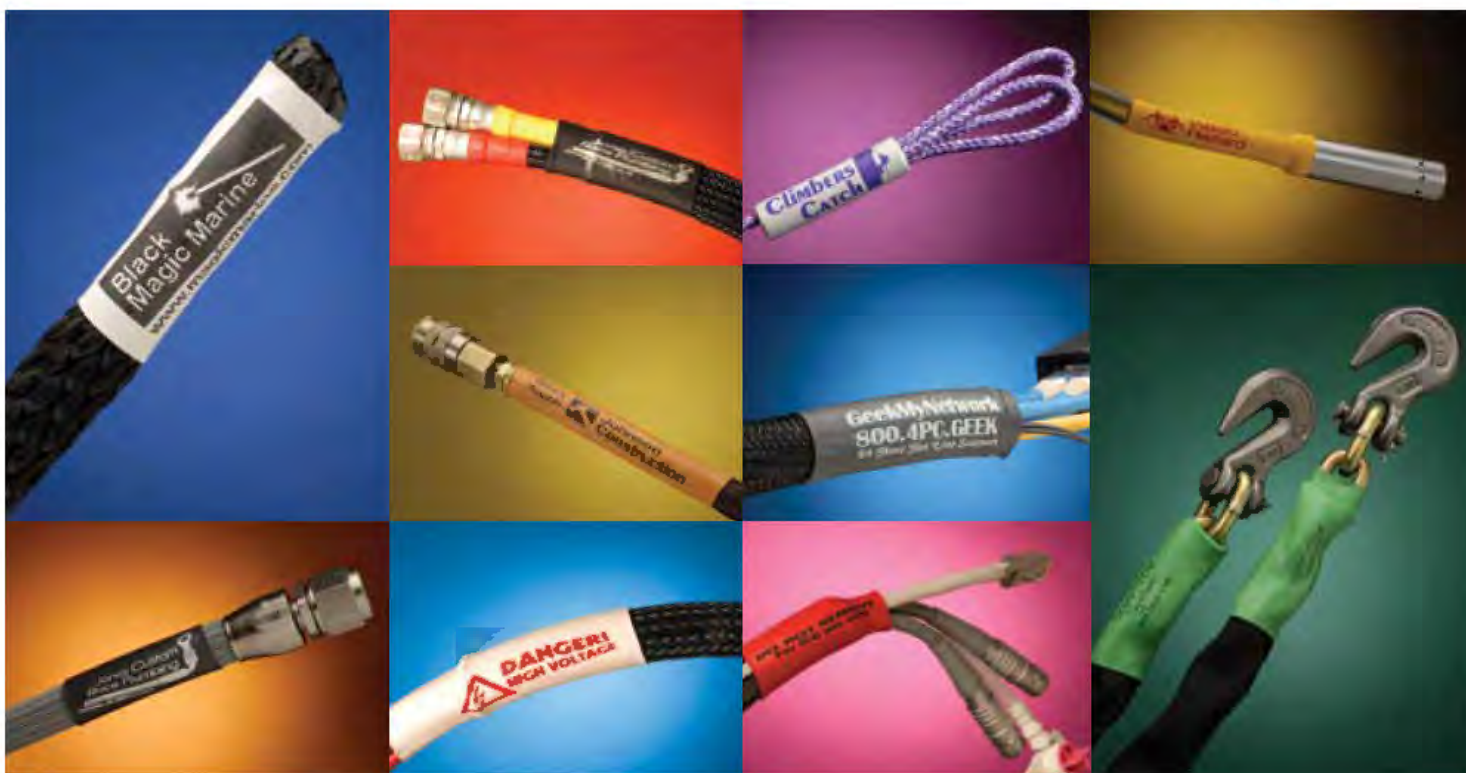
Techflex is happy to provide this unique service for our customers. Our proprietary heatshrink printing process allows you to select from our available combinations of heatshrink products and design your own customized heatshrink tubing.

You can chose from any of our 11 tubing colors (pg. 80), and 9 ink colors: Black, Blue, Gold, Green, Purple, Red, Silver, White, and Yellow.

Your finished art will be prepared by our Graphics Department and printed on our high resolution equipment. Please contact your Account Representative for more details.



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- Shrink Temp. 194°F
- Flame Retardant
- Versatile & Economical Termination Solution
- Resists Common Automotive Chemicals
- Easily Installs Over Connectors & Splices

4:1 Polyolefin Heatshrink Tubing

4:1 Shrinkflex heatshrink tubing is the most versatile of the heatshrink products. The high shrink ratio ensures that the tubing will slip over large connectors or plugs and still provide a tight, professional seal.

This high shrink ratio tubing shrinks 75% or more in the radial direction and 50% or less in the axial direction. Resistant to abrasion, chemicals, and oils, Shrinkflex tubing will ensure maximum protection while providing neat end terminations.



Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/2"	H4N0.50BK	12.0mm	3.0mm	200'	25'	Black (BK)	1.17
3/4"	H4N0.75BK	19.0mm	4.5mm	100'	25'	Black (BK)	2.75
1"	H4N1.00BK	25.4mm	7.0mm	100'	25'	Black (BK)	3.25
1 1/4"	H4N1.25BK	32.0mm	8.0mm	100'	25'	Black (BK)	4.00
1 1/2"	H4N1.50BK	38.0mm	9.5mm	100'	25'	Black (BK)	4.25



Ultra Clear 2:1 PVC Heatshrink Tubing

Shrinks to 1/2 its original diameter. Ultra clear PVC heatshrink tubing is ideal for applications where complete transparency is required.

PVC is perfect for protecting exposed wires and cables on motorcycles and custom automobiles. Resists gasoline, oil, and common chemicals; provides protection from abrasion and severe environments.



Stays clear when shrunk.

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/16"	H2P0.06CL	1.6mm	0.8mm	1,000'	100'	CL & BK	0.20
1/4"	H2P0.25CL	6.4mm	3.2mm	200'	25'	CL & BK	0.60
5/16"	H2P0.31CL	8.0mm	4.0mm	200'	25'	CL & BK	0.70
3/8"	H2P0.38CL	9.5mm	4.8mm	200'	25'	CL & BK	0.80
1/2"	H2P0.50CL	12.7mm	6.4mm	200'	25'	CL & BK	1.10
5/8"	H2P0.63CL	15.9mm	7.9mm	200'	25'	CL & BK	1.16
3/4"	H2P0.75CL	19.1mm	9.5mm	200'	25'	CL & BK	1.90
1"	H2P1.00CL	25.4mm	12.7mm	200'	25'	CL & BK	3.00
1 1/2"	H2P1.50CL	38.1mm	19.1mm	100'	25'	CL & BK	5.30
2"	H2P2.00CL	50.8mm	25.4mm	100'	25'	CL & BK	8.40

*Contact your Account Representative for heatshrink cutting & printing services.



2:1 Fabric Heatshrink Tubing

Shrinks to 1/2 its original diameter. Fabric heatshrink tubing, a unique mixture of Polyolefin and Polyester yarns, is the ideal way to form the only shrinkable fabric of its kind. The woven construction makes this product extremely flexible and resistant to trapping water, heat, and humidity. Provides outstanding abrasion, chafing, and cutting protection, even at high temperatures.

Shrinkflex fabric tubing is designed primarily to provide mechanical abrasion protection for components such as rubber hoses, plastic pipes, and harness wiring bundles. Also suitable for other applications, such as noise and rattle suppression.

- **Shrink Temp. 275°F**
- **Highly Flexible**
- **Resists Common Automotive Chemicals**
- **Easily Installs Over Connectors & Splices**
- **Halogen Free**

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/2"	H2F0.48BK	12mm	6mm	100'	25'	Black (BK)	1.15
3/4"	H2F0.79BK	20mm	10mm	100'	25'	Black (BK)	1.61
1 3/16"	H2F1.18BK	30mm	15mm	100'	25'	Black (BK)	2.13
1 1/2"	H2F1.58BK	40mm	20mm	100'	25'	Black (BK)	2.66
2"	H2F1.97BK	50mm	25mm	100'	25'	Black (BK)	3.44
2 3/8"	H2F2.36BK	60mm	30mm	100'	25'	Black (BK)	4.11
2 3/4"	H2F2.75BK	70mm	35mm	100'	25'	Black (BK)	4.69



2:1 Diesel Resistant Heatshrink Tubing

Diesel resistant heatshrink tubing is the ideal way to create a tight, professional finish on any wire, hose, or cable management project. Once shrunk, the tubing will hold its reduced state even in elevated temperatures. H2D is resistant to aviation and diesel fuels, hydraulic fluids, and lubrication oils. It will protect wires, solder joints, terminals, connections, and components from most industrial fuels and abrasion.



Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/8"	H2D0.13BK	3.2mm	1.6mm	500'	25'	Black (BK)	0.70
3/16"	H2D0.19BK	4.8mm	2.4mm	250'	25'	Black (BK)	1.00
1/4"	H2D0.25BK	6.4mm	3.2mm	250'	25'	Black (BK)	1.20
3/8"	H2D0.38BK	9.6mm	4.8mm	200'	25'	Black (BK)	1.75
1/2"	H2D0.50BK	12.8mm	6.4mm	100'	25'	Black (BK)	2.75
3/4"	H2D0.75BK	19.3mm	9.5mm	100'	25'	Black (BK)	4.75
1"	H2D1.00BK	25.4mm	12.7mm	100'	25'	Black (BK)	8.80
1 1/4"	H2D1.25BK	31.8mm	15.9mm	100'	25'	Black (BK)	12.60
1 1/2"	H2D1.50BK	38.2mm	19.1mm	100'	25'	Black (BK)	12.20

- **Shrink Temp. 302°F**
- **Heavy Wall, Flexible Elastomer Polyolefin Tubing**
- **High Resistance to Aviation Fuels, Diesel Fuels, and Oils**

*Contact your Account Representative for heatshrink cutting & printing services.

- Shrink Temp. 194°F
- Flame Retardant
- Resists Common Automotive Chemicals
- Easily Installs Over Connectors & Splices
- Excellent Electrical Properties
- Protects from Fluids, Moisture, & Corrosion

2:1, 3:1, and 4:1 Dual Wall Adhesive Heatshrink Tubing

Dual wall adhesive-lined polyolefin heatshrink tubing is ideal for producing strong, weather tight seals on any heatshrink installation. During the application of heat from a heat gun or other heat source, the inner adhesive wall melts and flows, creating an adhesion layer to ensure a snug fit to your harness or connector.

Adhesive lined heatshrink comes in 2:1, 3:1, and 4:1 shrink ratio, and it is available in 4' sticks.

Shrinks to 1/2 its original diameter

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Bulk Box Put Up/4' Pcs.	Shop Box Put Up/4' Pcs.	Available Colors	Lbs/10Pcs.
1/8"	H2A0.13	3.2mm	1.6mm	250	25	CL,BK	0.17
1/4"	H2A0.25	6.4mm	3.2mm	250	25	CL,BK	0.32
3/8"	H2A0.38	9.6mm	4.8mm	250	25	WH,RD,BK	0.55
1/2"	H2A0.50	12.7mm	6.4mm	200	25	CL,WH,RD,BK	0.73
3/4"	H2A0.75	19.1mm	9.6mm	80	25	WH,RD,BK	1.15
1"	H2A1.00	25.4mm	12.7mm	50	25	WH,RD,BK	1.53
1 1/2"	H2A1.50	38.1mm	19.1mm	15	5	BK	2.50

Shrinks to 1/3 its original diameter

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Bulk Box Put Up/4' Pcs.	Shop Box Put Up/4' Pcs.	Available Colors	Lbs/10Pcs.
1/8"	H3A0.13	3.0mm	1.0mm	250	25	CL,WH,RD,BK	0.26
3/16"	H3A0.19	4.8mm	1.5mm	250	25	CL,WH,RD,BK	0.31
1/4"	H3A0.25	6.0mm	2.0mm	250	25	CL,WH,RD,BK	0.35
3/8"	H3A0.38	9.0mm	3.0mm	250	25	CL,WH,RD,BK	0.55
1/2"	H3A0.50	12.0mm	4.0mm	200	25	CL,WH,RD,BK	0.75
3/4"	H3A0.75	19.0mm	6.0mm	80	25	CL,WH,RD,BK	1.65
1"	H3A1.00	24.0mm	8.0mm	50	25	CL,WH,RD,BK	2.15
1 1/2"	H3A1.50	38.0mm	13.0mm	25	-	CL,WH,RD,BK	4.40

Shrinks to 1/4 its original diameter

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Bulk Box Put Up/4' Pcs.	Shop Box Put Up/4' Pcs.	Available Colors	Lbs/10Pcs.
3/16"	H4A0.19	4.0mm	1.0mm	250	25	CL,BK	0.30
5/16"	H4A0.31	8.0mm	2.0mm	250	25	CL,BK	0.44
1/2"	H4A0.50	12.0mm	3.0mm	200	25	CL,BK	0.90
3/4"	H4A0.75	16.0mm	4.0mm	80	25	CL,BK	1.50
1"	H4A1.00	24.0mm	6.0mm	50	25	CL,BK	2.60
1 1/4"	H4A1.25	32.0mm	8.0mm	25	5	CL,BK	3.50
2"	H4A2.00	52.0mm	13.0mm	15	5	CL,BK	8.00

*Contact your Account Representative for heatshrink cutting & printing services.



Seals and protects a wide variety of electrical applications, including wire splices, breakouts, and connectors-to-cable transitions.





2:1 Viton® - Flexible Heatshrink Tubing

Viton is a rubber-like, highly fluid-resistant, flame retardant fluoro-elastomer heat-shrinkable tubing with high solvent resistance. The product is recommended for bundling, harnessing, and environmental protection within engine compartments.

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/8"	H2V0.13BK	3.2mm	1.6mm	200'	100'	Black (BK)	1.26
3/16"	H2V0.19BK	4.8mm	2.4mm	200'	100'	Black (BK)	1.45
1/4"	H2V0.25BK	6.4mm	3.2mm	200'	100'	Black (BK)	1.68
3/8"	H2V0.38BK	9.5mm	4.7mm	200'	100'	Black (BK)	2.27
1/2"	H2V0.50BK	12.7mm	6.4mm	100'	50'	Black (BK)	2.29
5/8"	H2V0.63BK	16.0mm	8.0mm	100'	50'	Black (BK)	2.50
3/4"	H2V0.75BK	19.1mm	9.5mm	100'	50'	Black (BK)	4.14
7/8"	H2V0.88BK	22.4mm	11.0mm	50'	25'	Black (BK)	4.83
1"	H2V1.00BK	25.4mm	12.7mm	50'	25'	Black (BK)	5.73
1 1/4"	H2V1.25BK	31.7mm	15.7mm	50'	25'	Black (BK)	8.20
1 1/2"	H2V1.50BK	38.1mm	19.1mm	50'	25'	Black (BK)	8.80
2"	H2V2.00BK	50.8mm	25.4mm	50'	25'	Black (BK)	13.40

- Shrink Temp. 248°F
- Mil-I-DTL-23053/13
- Flame Retardant
- Resistant to Highly Corrosive Acids, Fluids, Fuels, & Solvents
- High Operating Temp. 392°F for Extreme Working Conditions

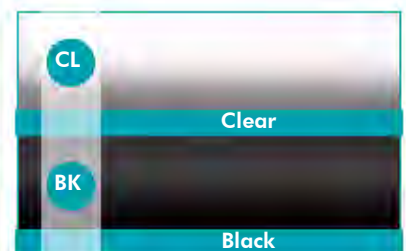
Viton® is a registered trademark of DuPont Performance Elastomers.

2:1 Kynar® - Semi-Rigid Heatshrink Tubing

Kynar is a highly flame-retardant tubing that is tough and abrasion resistant in mechanical environments. The product is recommended for applications for strain relieving components such as soldered connections and splices.

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Bulk Box Put Up/4'Pcs.	Shop Box Put Up/4'Pcs.	Available Colors	Lbs/10Pcs.
3/64"	H2K0.05	1.2mm	0.6mm	200	25	CL & BK	0.03
1/16"	H2K0.06	1.6mm	0.8mm	200	25	CL & BK	0.05
3/32"	H2K0.09	2.4mm	1.2mm	200	25	CL & BK	0.06
1/8"	H2K0.13	3.2mm	1.6mm	200	25	CL & BK	0.07
3/16"	H2K0.19	4.8mm	2.4mm	200	25	CL & BK	0.10
1/4"	H2K0.25	6.4mm	3.2mm	200	25	CL & BK	0.15
3/8"	H2K0.38	9.5mm	4.7mm	200	25	CL & BK	0.25
1/2"	H2K0.50	12.7mm	6.4mm	100	25	CL & BK	0.30
3/4"	H2K0.75	19.1mm	9.5mm	50	25	CL & BK	0.50
1"	H2K1.00	25.6mm	12.7mm	50	25	CL & BK	0.80

- Shrink Temp. 347°F
- Mil-I-DTL-23053/8
- Flame Retardant



Kynar® is a registered trademark of the Arkema Corporation.



- **Mil-I-DTL-23053/5**
- **Flame Retardant**
- **Excellent High Frequency EMI Shielding**
- **RoHS**
- **Easily Installs Over Connectors & Splices**

2:1 Shield Heatshrink Tubing

2:1 Shielding heatshrink tubing is a unique combination of Polyolefin and conductive cloth, with high frequency EMI shielding properties. This product, a flame retardant and fluid resistant tubing, is a perfect solution for protecting your wire & cable bundles.



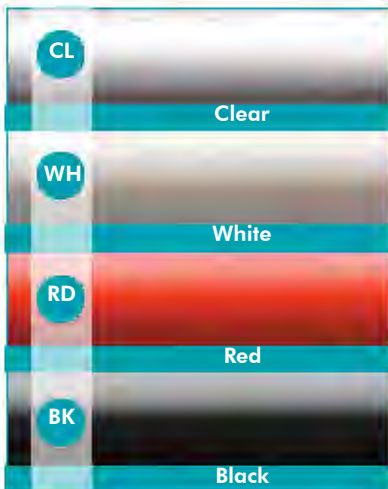
Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Bulk Box Put Up/4' Pcs.	Shop Box Put Up/4' Pcs.	Available Colors	Lbs/10Pcs.
3/16"	H2C0.19BK	4.8mm	2.4mm	12	2	Black (BK)	0.31
1/4"	H2C0.25BK	6.4mm	3.2mm	12	2	Black (BK)	0.50
3/8"	H2C0.38BK	9.5mm	4.8mm	12	2	Black (BK)	0.63
1/2"	H2C0.50BK	12.7mm	6.4mm	12	2	Black (BK)	0.75
3/4"	H2C0.75BK	19.1mm	9.5mm	12	2	Black (BK)	1.00
1"	H2C1.00BK	25.4mm	12.7mm	12	2	Black (BK)	1.50
1 1/2"	H2C1.50BK	38.1mm	19.1mm	12	2	Black (BK)	2.25



- **Shrink Temp. 239°F**
- **Excellent UV Resistance**
- **Good Electrical Properties & Chemical Resistance**

2:1 Glossy Polyolefin Heatshrink Tubing

2:1 Glossy Polyolefin heatshrink tubing is the ideal way to create a tight, professional finish on any wire, hose, or cable management project. Once shrunk, the tubing will hold its reduced state even in elevated temperatures. The wide range of diameters and the attractive glossy finish makes this heatshrink a perfect solution for any termination application.



Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/8"	H2G0.13	3.2mm	1.6mm	500'	25'	CL,WH,RD,BK	0.43
3/16"	H2G0.19	4.8mm	2.4mm	200'	25'	CL,WH,RD,BK	0.60
1/4"	H2G0.25	6.4mm	3.2mm	200'	25'	CL,WH,RD,BK	1.04
3/8"	H2G0.38	9.5mm	4.7mm	200'	25'	CL,WH,RD,BK	1.31
1/2"	H2G0.50	12.7mm	6.4mm	200'	25'	CL,WH,RD,BK	1.52
3/4"	H2G0.75	19.1mm	9.5mm	100'	25'	CL,WH,RD,BK	2.58
1"	H2G1.00	25.4mm	12.7mm	100'	25'	CL,WH,RD,BK	3.74
1 1/2"	H2G1.50	38.1mm	19.1mm	100'	25'	CL,WH,RD,BK	5.53
2"	H2G2.00	50.8mm	25.4mm	100'	25'	CL,WH,RD,BK	8.25



2:1 PTFE Heatshrink Tubing

2:1 Polytetrafluoroethylene heatshrink tubing has the lowest coefficient of friction of any polymer and possesses a broad temperature range, allowing it to excel equally in extreme cold and hot environments.

When ordering our 2:1 PTFE heatshrink, order as size after shrinking.

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Wall Thickness	Put Up/4' Pcs.	Available Colors
24 AWG	M23053-12-201-C	1.27mm	0.69mm	0.30mm	1	Clear (CL)
22 AWG	M23053-12-202-C	1.40mm	0.81mm	0.30mm	1	Clear (CL)
20 AWG	M23053-12-203-C	1.52mm	0.99mm	0.41mm	1	Clear (CL)
19 AWG	M23053-12-204-C	1.65mm	1.09mm	0.41mm	1	Clear (CL)
18 AWG	M23053-12-205-C	1.93mm	1.24mm	0.41mm	1	Clear (CL)
17 AWG	M23053-12-206-C	2.16mm	1.37mm	0.41mm	1	Clear (CL)
15 AWG	M23053-12-207-C	2.79mm	1.70mm	0.41mm	1	Clear (CL)
14 AWG	M23053-12-208-C	3.05mm	1.83mm	0.41mm	1	Clear (CL)
13 AWG	M23053-12-210-C	3.56mm	2.03mm	0.41mm	1	Clear (CL)
12 AWG	M23053-12-211-C	3.81mm	2.26mm	0.41mm	1	Clear (CL)
11 AWG	M23053-12-212-C	4.32mm	2.57mm	0.41mm	1	Clear (CL)
10 AWG	M23053-12-213-C	4.85mm	2.84mm	0.41mm	1	Clear (CL)
9 AWG	M23053-12-214-C	5.21mm	3.15mm	0.51mm	1	Clear (CL)
1/8"	M23053-12-215-C	5.46mm	3.30mm	0.51mm	1	Clear (CL)
8 AWG	M23053-12-216-C	6.10mm	3.58mm	0.51mm	1	Clear (CL)
7 AWG	M23053-12-217-C	6.86mm	4.01mm	0.51mm	1	Clear (CL)
6 AWG	M23053-12-218-C	7.67mm	4.52mm	0.51mm	1	Clear (CL)
5 AWG	M23053-12-219-C	8.13mm	5.03mm	0.51mm	1	Clear (CL)
4 AWG	M23053-12-220-C	9.40mm	5.69mm	0.51mm	1	Clear (CL)
3 AWG	M23053-12-221-C	9.91mm	6.32mm	0.51mm	1	Clear (CL)
1/4"	M23053-12-222-C	10.41mm	6.60mm	0.51mm	1	Clear (CL)
2 AWG	M23053-12-223-C	10.92mm	7.06mm	0.51mm	1	Clear (CL)
1 AWG	M23053-12-224-C	11.43mm	7.90mm	0.51mm	1	Clear (CL)
5/16"	M23053-12-225-C	11.94mm	8.36mm	0.51mm	1	Clear (CL)
0 AWG	M23053-12-226-C	11.94mm	8.81mm	0.51mm	1	Clear (CL)
3/8"	M23053-12-228-C	14.22mm	10.13mm	0.64mm	1	Clear (CL)
7/16"	M23053-12-229-C	16.64mm	11.73mm	0.64mm	1	Clear (CL)
1/2"	M23053-12-230-C	19.05mm	13.31mm	0.64mm	1	Clear (CL)
5/8"	M23053-12-231-C	23.62mm	16.64mm	0.76mm	1	Clear (CL)
3/4"	M23053-12-232-C	28.58mm	19.96mm	0.89mm	1	Clear (CL)
7/8"	M23053-12-233-C	33.27mm	23.14mm	0.89mm	1	Clear (CL)
1"	M23053-12-234-C	38.10mm	26.31mm	0.89mm	1	Clear (CL)

- Shrink Temperature 654°F (346°C)
- Mil-I-DTL-23053/12
- Excellent Dielectric Strength
- Resistant to All Common Solvents, Acids, and Bases
- High Operating Temp. Range -454°F (-253°C) to 500°F (260°C)



Splice sleeving



Adhesive lining



Added waterproofing

Hot Fusion Tape

Techflex hot-melt adhesive tape works great in conjunction with our sleeving and heatshrink products. HFA has good adhesion to polyolefin, PET, PVC, copper, and nylon. Hot Fusion Tape is very flexible and can be field cut to fit your application. Use when extra adhesive may be needed, in areas between wire bundles for weatherproofing, or under heatshrink products not available with pre-coated dual wall adhesive. Tape activates easily when shrinking your tubing.

Nominal Size	Part #	Width	Thickness	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
2"	HFA2.00CL	1.97"	0.012"	100'	25'	Clear (CL)	1.16



1-973-300-9242
www.techflex.com

Heatshrink Kits

At Techflex, we anticipate customers' needs to determine which product is best for your project. Nothing can be more frustrating than to during the middle of a job, that the shrink tubing you have is the wrong size. To help solve this, we created a new series of multi-size Shrinkflex kits. Our 2-1 and 3-1 kits have 6 sizes to work with and give you a perfect selection. These kits are also available in a variety of colors or even a mixed color kit making a really great addition to your shop. Don't be stuck with the wrong shrink tubing, Techflex has you covered.



Metal Rack for Kits - **SSR0.00GY**

2:1 Polyolefin

Part #	1/8"	1/4"	3/8"	1/2"	3/4"	1"	Colors
HSK2-BK-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Black
HSK2-RD-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Red
HSK2-YL-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Yellow
HSK2-WH-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	White
HSK2-BL-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Blue
HSK2-CL-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Clear
HSK2-GN-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Green
HSK2-BR-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Brown
HSK2-GY-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Gray
HSK2-OR-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Orange
HSK2-PP-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Purple
HSK2-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Mixed

3:1 Polyolefin

Part #	1/8"	1/4"	3/8"	1/2"	3/4"	1"	Colors
HSK3-BK-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Black
HSK3-RD-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Red
HSK3-YL-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Yellow
HSK3-WH-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	White
HSK3-CL-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Clear
HSK3-K	30 pieces 6"	20 pieces 6"	20 pieces 6"	20 pieces 6"	10 pieces 6"	10 pieces 6"	Mixed

3:1 Dual Wall Adhesive - Small Sizes

Part #	1/4"	1/4"	3/8"	3/8"	1/2"	1/2"	Colors
HSA3-KS	12 pieces 6" RD	12 pieces 6" BK	9 pieces 6" RD	9 pieces 6" BK	6 pieces 6" RD	10 pieces 6" BK	BK & RD

3:1 Dual Wall Adhesive - Large Sizes

Part #	1/2"	1/2"	3/4"	3/4"	1"	1"	Colors
HSA3-KL	12 pieces 6" RD	12 pieces 6" BK	6 pieces 6" RD	6 pieces 6" BK	3 pieces 6" RD	3 pieces 6" BK	BK & RD

How to work with heatshrink tubing



Measure the heatshrink tubing to length and cut with a scissor. The thickness of your bundle, as well as the desired final appearance, will determine the length of the tubing you cut. Generally, a piece 1 1/2" - 2" long will accommodate almost any need (such as this bundle of network cables). Single wires, or smaller bundles, require shorter pieces.



Slip the tubing over the bundle and position it so that both the sleeved and unsleeved portions are sufficiently covered. Notice the small pieces of tubing installed on single wires as part of a color coding system. If your project requires multiple operations, always work up from the smallest to the largest bundle.



Gently apply heat from a heat gun, hair dryer, or torch with an appropriate attachment. Keep the heat source far enough away so that hot metal or direct flame don't come in contact with the tubing, wires, or sleeving. Move the heat around the bundle to prevent damaging the sleeving and to ensure that all areas of the tubing have been shrunk. Once cooled, your installation is complete.



Steinel High Quality Heat Guns & Accessories



Production quality heat guns from one of the finest names in tools. These high quality guns will provide years of dependable service under the most intensive conditions. High strength, impact resistant cases with heavy duty motors and heating elements.

- Heat Blower Kit - SHB-1750KIT
- Industrial Heat Gun - SHG-2300EM
- Programmable Intellitemp Heat Gun - SHG-2310LCD

Techflex helps your projects fly with Shrinkflex and Flexo Sleeving!



For more info go to
techflex.com/projects



- **Used Extensively Throughout the Aerospace, Electronics, Medical & Many Smaller Specialized Manufacturing Industries**
- **Increased Knot Retention**
- **Ideal for Applications Requiring Reductions in Size and Weight**
- **Good Vibration Performance with Long Term Integrity and Reliability**

Long Life Method of Wire Dressing

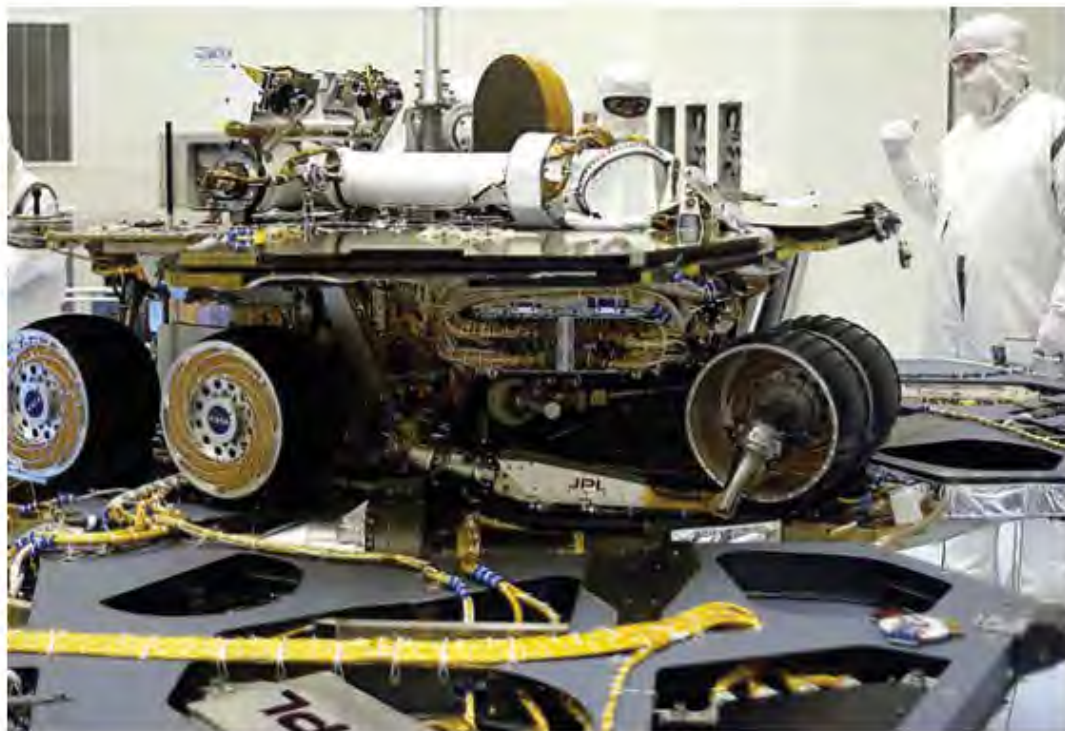
Lasts longer than cable ties! Cable ties turn brittle and degrade over time due to environmental exposure and loss of plasticizers. A roll of lacing tape can manage any size cable bundle, from a couple of 22AWG wires to a fistful of heavy power cables.

Cable ties leave a sharp edge where the tail was cut off that can snag or get hung up. Some applications such as aerospace and aviation may specify laced harnesses as a design requirement. Lacing tape is ideal for lashing wires or cables to ladder bars, conduit and other wire management solutions.

Unlike cable ties, the insulation on wires bundled with lacing tape has less chance of cold flowing and shorting. No sharp edges to cut installer's hands when reaching into a tightly packed wiring cavity. Lacing tape is available in a wide range of materials, sizes, and finishes to accommodate any engineering requirement.



TechLace lacing tape is packaged in a convenient re-sealable bag to protect against dust and other contaminants. A 1/4" vent hole enables the material to be quickly and neatly dispensed without hassle.



1-973-300-9242
www.techflex.com

Polyamide (Nylon) Lacing Tape

Part #	Mil Spec Size	Mil Spec Finish	Width		Thickness		Available Colors	Bulk Spool	Lbs/ Spool
			Min	Max	Min	Max			
LT1-S1-FA-*	1	A	.180"	.220"	.013"	.019"	NT & BK	750'	0.80
LT1-S2-FA-*	2	A	.099"	.121"	.012"	.018"	NT & BK	750'	0.45
LT1-S3-FA-*	3	A	.077"	.094"	.011"	.017"	NT & BK	1,500'	0.50
LT1-S4-FA-*	4	A	.054"	.066"	.009"	.015"	NT & BK	1,500'	0.40
LT1-S5-FA-*	5	A	.045"	.055"	.006"	.014"	NT & BK	1,500'	0.30
LT1-S1-FB-*	1	B	.180"	.220"	.013"	.019"	NT & BK	750'	0.95
LT1-S2-FB-*	2	B	.099"	.121"	.012"	.018"	NT & BK	750'	0.50
LT1-S3-FB-*	3	B	.077"	.094"	.011"	.017"	NT & BK	1,500'	0.55
LT1-S4-FB-*	4	B	.054"	.066"	.009"	.015"	NT & BK	1,500'	0.45
LT1-S5-FB-*	5	B	.045"	.055"	.006"	.014"	NT & BK	1,500'	0.30
LT1-S1-FC-*	1	C	.180"	.220"	.013"	.019"	NT & BK	750'	0.95
LT1-S2-FC-*	2	C	.099"	.121"	.012"	.018"	NT & BK	750'	0.50
LT1-S3-FC-*	3	C	.077"	.094"	.011"	.017"	NT & BK	1,500'	0.55
LT1-S4-FC-*	4	C	.054"	.066"	.009"	.015"	NT & BK	1,500'	0.45
LT1-S5-FC-*	5	C	.045"	.055"	.006"	.014"	NT & BK	1,500'	0.30

** Replace the asterisks with color code NT for Natural or BK for Black.

A-A-52080 TYPE I

- General purpose lacing tape • Available colors: Natural (NT) and Black (BK)
- Thermal endurance: -67°F to 250°F • Melting point: 478°F • Finishes: A-No Finish, B-Wax or C-Synthetic Rubber



Polyester (Dacron) Lacing Tape

Part #	Mil Spec Size	Mil Spec Finish	Width		Thickness		Available Colors	Bulk Spool	Lbs/ Spool
			Min	Max	Min	Max			
LT2-S1-FA-*	1	A	.180"	.220"	.013"	.019"	NT & BK	750'	0.80
LT2-S2-FA-*	2	A	.099"	.121"	.012"	.018"	NT & BK	750'	0.45
LT2-S3-FA-*	3	A	.077"	.094"	.011"	.017"	NT & BK	1,500'	0.50
LT2-S4-FA-*	4	A	.054"	.066"	.009"	.015"	NT & BK	1,500'	0.40
LT2-S5-FA-*	5	A	.045"	.055"	.006"	.014"	NT & BK	1,500'	0.30
LT2-S1-FB-*	1	B	.180"	.220"	.013"	.019"	NT,BK,RD	750'	1.00
LT2-S2-FB-*	2	B	.099"	.121"	.012"	.018"	NT,BK,RD	750'	0.55
LT2-S3-FB-*	3	B	.077"	.094"	.011"	.017"	NT,BK,RD	1,500'	0.60
LT2-S4-FB-*	4	B	.054"	.066"	.009"	.015"	NT,BK,RD	1,500'	0.45
LT2-S5-FB-*	5	B	.045"	.055"	.006"	.014"	NT,BK,RD	1,500'	0.30
LT2-S1-FC-*	1	C	.180"	.220"	.013"	.019"	NT,BK,RD	750'	1.00
LT2-S2-FC-*	2	C	.099"	.121"	.012"	.018"	NT,BK,RD	750'	0.55
LT2-S3-FC-*	3	C	.077"	.094"	.011"	.017"	NT,BK,RD	1,500'	0.60
LT2-S4-FC-*	4	C	.054"	.066"	.009"	.015"	NT,BK,RD	1,500'	0.45
LT2-S5-FC-*	5	C	.045"	.055"	.006"	.014"	NT,BK,RD	1,500'	0.30

** Replace the asterisks with color code NT for Natural, BK for Black or RD for Red.

A-A-52081 TYPE II

- Superior knot tying properties to Nylon • Suitable for aerospace/NASA applications
- High temperature performance • Available colors: Natural (NT), Black (BK), and Red (RD)
- Thermal endurance: -99°F to 350°F • Melting point: 482°F
- Finishes: A-No Finish, B-Wax or C-Synthetic Rubber



PTFE-Fluorocarbon (Teflon) Lacing Tape

Part #	Mil Spec Size	Mil Spec Finish	Width		Thickness		Available Colors	Bulk Spool	Lbs/ Spool
			Min	Max	Min	Max			
LT3-S2-FA-BR	2	A	.108"	.132"	.009"	.014"	BR	750'	0.70
LT3-S4-FA-BR	4	A	.059"	.072"	.009"	.014"	BR	1,500'	0.65

A-A-52082 TYPE III

- High heat resistance • Good resistance to fluids and solvents • Suitable for aircraft engine applications • Available colors: Brown (BR) • Thermal endurance: -99°F to 450°F • Melting point: 620°F • Finishes: A-No Finish

Fiberglass (Glass) Lacing Tape

Part #	Mil Spec Size	Mil Spec Finish	Width		Thickness		Available Colors	Bulk Spool	Lbs/ Spool
			Min	Max	Min	Max			
LT4-S1-FD-NT	1	D	.203"	.248"	.013"	.019"	NT	750'	1.40
LT4-S2-FD-NT	2	D	.099"	.121"	.013"	.019"	NT	750'	1.10
LT4-S3-FD-NT	3	D	.077"	.094"	.013"	.019"	NT	1,500'	1.70
LT4-S4-FD-NT	4	D	.054"	.066"	.013"	.019"	NT	1,500'	1.20

A-A-52083 TYPE IV

- Extremely high temperature performance • Very low elongation • Minimal fiber to fiber abrasion • Produced from continuous filament electrical grade glass (E-glass) • Available colors: Natural (NT) • Thermal endurance: -67°F to 800°F • Melting point: 2,102°F • Finishes: D-TFE-Fluorocarbon

Meta Aramid (Nomex) Lacing Tape

Part #	Mil Spec Size	Mil Spec Finish	Width		Thickness		Available Colors	Bulk Spool	Lbs/ Spool
			Min	Max	Min	Max			
LT5-S1-FA-NT	1	A	.180"	.220"	.013"	.019"	NT	750'	0.75
LT5-S2-FA-NT	2	A	.099"	.121"	.011"	.017"	NT	750'	0.40
LT5-S3-FA-NT	3	A	.068"	.083"	.009"	.015"	NT	1,500'	0.45
LT5-S4-FA-NT	4	A	.050"	.061"	.007"	.013"	NT	1,500'	0.35
LT5-S1-FC-NT	1	C	.180"	.220"	.013"	.019"	NT	750'	0.85
LT5-S2-FC-NT	2	C	.099"	.121"	.011"	.017"	NT	750'	0.45
LT5-S3-FC-NT	3	C	.068"	.083"	.009"	.015"	NT	1,500'	0.50
LT5-S4-FC-NT	4	C	.050"	.061"	.007"	.013"	NT	1,500'	0.40

A-A-52084 TYPE V

- Extremely high temperature performance • Non-flammable • Highly resistant to fluids and lubricants • Suitable for critical aircraft harness applications
- Available colors: Natural (NT) • Thermal endurance: -67°F to 500°F • Melting point: 700°F • Finishes: A-No Finish or C-Synthetic Rubber



Protective Plastic Netting

Part Guard (PT) is a high quality industrial polyethylene netting that is ideal for protection and separation of products in all process, handling, shipping, and storage applications. The open mesh design eliminates trapping of moisture and protects against rust or corrosion.

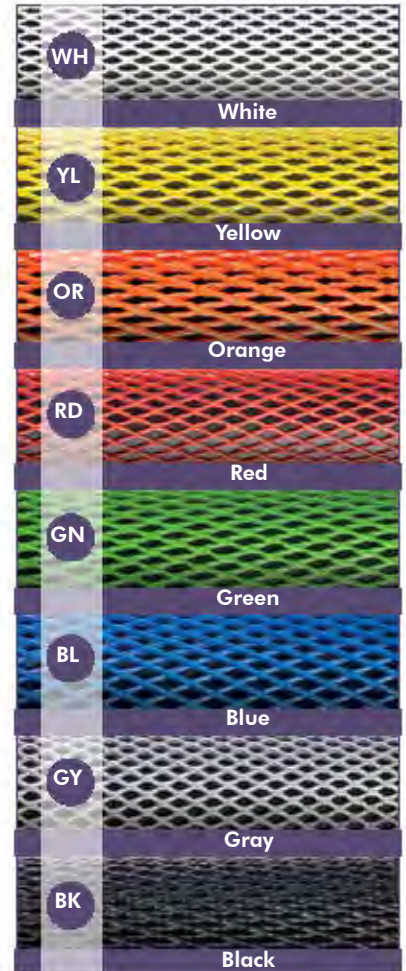
Part Guard can be easily cut down to precise lengths, and accommodate a variety of application diameters.

Part Guard is available in an expandable, medium duty type (PGE) or a thicker, non-expandable product (PGN). Each size is defined by a discrete color, allowing quick and easy visual identification of the diameter, and simplifying inventory management of various products.

- **Lightweight**
- **Non-Corrosive**
- **Color Coded Sizes for Easy Identification**
- **Allows Air Circulation**
- **Economical Protection During Shipping or Storage**



Part Guard protects precision surfaces from damage.



Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Up		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/4"	PGE0.25YL	.06"	1/4"	1/2"	3,000'	25'	Yellow (YL)	0.6
1/2"	PGE0.50BL	.06"	1/2"	1"	2,750'	25'	Blue (BL)	0.8
1"	PGE1.00RD	.06"	1"	1 1/2"	1,700'	25'	Red (RD)	1.7
1 1/2"	PGE1.50BK	.06"	1 1/2"	2"	900'	25'	Black (BK)	4.6
2"	PGE2.00WH	.06"	2"	2 1/2"	800'	25'	White (WH)	5.0
1/2"	PGN0.50WH	.08"	1/2"	1 1/4"	500'	100'	White (WH)	1.5
3/4"	PGN0.75OR	.08"	3/4"	1 1/2"	285'	100'	Orange (OR)	3.0
1"	PGN1.00BK	.08"	1"	2"	235'	100'	Black (BK)	3.5
1 1/4"	PGN1.25GN	.08"	1 1/4"	2 1/2"	165'	100'	Green (GN)	5.0
1 1/2"	PGN1.50YL	.08"	1 1/2"	3"	165'	100'	Yellow (YL)	5.2
1 3/4"	PGN1.75GY	.08"	1 3/4"	3 1/2"	135'	100'	Gray (GY)	5.4
2"	PGN2.00BL	.08"	2"	4 1/4"	110'	100'	Blue (BL)	6.4

*Contact your account representative for automation cutting (free service).

Working Effectively With Tape

Sure, you could just wrap some tape around the ends of your sleeving and call it a day. It won't look great, but it'll work just fine. However, with just a few more minutes work, you can achieve a clean, invisible termination solution with a unique visual effect. This is ideal when the other end of the installation will be hidden under a plug or inside a cabinet.



Measure the sleeving and mark the measurement with a pen or marker. Add an additional 1 1/2 - 2 inches and cut the extended length of sleeving.



Slip the additional length of sleeving over the end of your application so that the mark is at the spot on the installation where you want the sleeving to end. On this low pressure air hose, it's just below the connector.



Starting at the line, take a few tight turns of tape down the application so that it covers the sleeving and extends about 1 1/2" on the application. Make sure the tape is smooth and tight. Cut the end and press down for a smooth finish.

Push the sleeving down over itself and the tape and keep pushing until the other end of the sleeving falls into place at the far end of the application. If there are any sharp edges or loose wires on the ends, temporarily wrap them with tape to avoid snags.



This system creates a clean termination with a slight flare at the end. This installation process only works at one end of your application. To finish the other end, you'll have to use another termination procedure.



3M 2242 Self Bonding Tape

Linerless rubber splicing tape. Waterproof and flame retardant. Ideal for moisture sealing and insulating.

3M 2242 Tape - **3M20.75BK**



3M Vinyl Electrical Tape

Standard, general purpose vinyl tape for use in applications not subject to extreme heat, cold, abrasion, or chemical/UV exposure. Ideal for interior applications in the home, office, or shop. 3/4" x 66'. Available in Blue (BL), Green (GN), Orange (OR), Red (RD), Yellow (YL), White (WH), Black (BK), Gray (GY), Purple (PP), and Brown (BR).

3M Vinyl Tape - **MMN0.75**



Other Tapes

ThermaShield Tape



TST1.00SV
TST1.50SV
TST2.00SV
TST3.00SV
TST4.00SV
TST6.00SV

For more info go to pg. 55

Hot Fusion Tape



HFA2.00CL
For more info
go to pg. 87

Wrap & Seal Tape



High strength tape works on dirty or wet surfaces. Ideal for automotive and marine hoses. Self-sealing and waterproof.

Wrap & Seal Tape - **WNS1.00BK**



Military Spec Silicone Tape

FireFlex self-fusing silicone tape is a unique adhesive free product that quickly fuses to itself to create a moisture and corrosion resistant continuous seal for electrical insulation, pipe and hose repair, or anywhere a quick and residue free wrap is needed.

FireFlex Silicone Tape creates an airtight/watertight seal around even irregularly shaped applications, and the high insulation values make it useful in repairing cracked or damaged insulation in Class A and B applications.

Resistant to engine fluids, solvents, high-heat, and molten metal splashes, seal silicone tape can withstand the harshest of environments. A wide operating temperature of -85°F to 500°F makes it excellent for automotive, industrial, and marine applications, as well as a perfect end termination for our FireFlex Silicone Sleeving.

Ideal to keep in a toolbox for emergency repairs on wires or hoses, as a residue free solution to coil extension cords, ropes, and cables, and for a waterproof, heat, and chemical resistant wrap for wiring harnesses and splices.



- **A-A-59163**
- **Mil-I-46852**
- **Self-Fusing**
- **Air & Moisture Tight Seal**
- **Prevents Corrosion**
- **No Adhesive, Bonds Only to Itself**
- **Resists Weathering**
- **Conforms to Irregular Shapes**
- **Elastic Memory Seal**
- **Cures in 24 Hours at Room Temperature**



AUDIO/VIDEO



COMPUTERS



AUTOMOTIVE



HOME



Colored guide line only on TGL (Triangular Guide Line) tapes.

GARDEN



CONSTRUCTION



PLUMBING



ELECTRICAL



INSULATION CLASS

May be used in many Class A & Class B applications.

CLASS*	20,000 HR LIFE TEMP.
A	221°F (105°C)
B	266°F (130°C)

*The temperature classification indicates the maximum (hot-spot) temp. at which the insulation system can be operated for normal expected service life.

Width	Part #	Wall Thickness	Type	Class	Available Colors	Roll	Lbs/Roll
1"	STA1.00BK36	0.020"	Triangular	A	BK	36'	0.29
1"	STA1.00RD36	0.020"	Triangular	A	RD	36'	0.33
1"	STB1.00BK36	0.040"	Triangular	B	BK	36'	0.57
1"	SRA1.00BK36	0.020"	Rectangle	A	BK	36'	0.45
1"	SRA1.00RD36	0.020"	Rectangle	A	RD	36'	0.50
1"	SRB1.00BK36	0.040"	Rectangle	B	BK	36'	0.75



VELCRO® Brand One-Wrap Straps

VELCRO® Brand Straps are economical and easy to field install. They provide termination solutions that produce a neat appearance on any cable management application. Reusable and flexible One-Wrap brand straps are perfect for temporary management of cords, cables, and wires. Can be reused hundreds of times! Available in a wide range of colors and sizes (width=3/4").

- Ideal for cord and cable control
- Great for network installations
- Can be cycled (opened and closed) hundreds of times
- Ideal for electrical & network color-coding



VELCRO® Brand One-Wrap Straps

Length	Part #	Width	Available Colors	Standard Spool Put-Up		
				Bulk Spool	Shop Spool	Retail Spool
5"	VST5.00	3/4"	BK,GY,BE,PP,BL,GN,YL,OR,RD,WH	1440 Pcs.	250 Pcs.	100 Pcs.
6"	VST6.00	3/4"	BK,GY,BE,PP,BL,GN,YL,OR,RD,WH	1200 Pcs.	250 Pcs.	100 Pcs.
8"	VST8.00	3/4"	BK,GY,BE,PP,BL,GN,YL,OR,RD,WH	900 Pcs.	250 Pcs.	100 Pcs.
12"	VST12.0	3/4"	BK,GY,BE,PP,BL,GN,YL,OR,RD,WH	600 Pcs.	100 Pcs.	50 Pcs.
18"	VST18.0	3/4"	BK,GY,BE,PP,BL,GN,YL,OR,RD,WH	400 Pcs.	100 Pcs.	50 Pcs.

VELCRO® Brand Roll



Width	Part #	Rated Load	Available Colors	Yards/Roll
3/8"	VRW0.38	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR	25
1/2"	VRW0.50	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR	25
5/8"	VRW0.63	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR	25
3/4"	VRW0.75	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR	25
1"	VRW1.00	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR	25
1 1/2"	VRW1.50	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR,OR	25
2"	VRW2.00	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR,OR	25
3"	VRW3.00	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR	25
4"	VRW4.00	18 lbs.	BK,GY,BE,PP,BL,GN,YL,RD,WH,BR	25

FR VELCRO® Brand One-Wrap Straps

Flame Retardant VELCRO® brand straps are suitable for plenum applications and are UL flame rated (width=3/4"). Black (BK) and Cranberry (CR).



Length	Part #	Width	Available Colors	Standard Spool Put-Up		
				Bulk Spool	Shop Spool	Retail Spool
8"	VSF8.00	3/4"	Black BK & Cranberry CR	900 Pcs.	250 Pcs.	100 Pcs.
12"	VSF12.0	3/4"	Black BK & Cranberry CR	600 Pcs.	100 Pcs.	50 Pcs.
18"	VSF18.0	3/4"	Black BK & Cranberry CR	400 Pcs.	100 Pcs.	50 Pcs.

VELCRO® is a registered trademark of of Velcro Industries B. V.



Stainless Steel Cable Ties

High temperature stainless steel cable ties are great for harsh environments. Perfect for installing heavy duty and high temp sleeving.

5"	- 100lb	SSS5.00SV	250lb	SSH5.00SV	20"	- 100lb	SSS20.0SV	250lb	SSH20.0SV
7½"	- 100lb	SSS7.50SV	250lb	SSH7.50SV	27"	- 100lb	SSS27.0SV	250lb	SSH27.0SV
14½"	- 100lb	SSS14.5SV	250lb	SSH14.5SV					



Stainless Steel Cable Tie Tool

Cable Tie Gun for steel ties cuts off excess strap when the selected tension setting is achieved. Produces consistent tension from tie to tie and saves installation time with one easy action.

Cable Tie Gun - **SSTG**



Chrome Ties

Finish your custom application with genuine chrome cable ties from Techflex. Perfect for finishing wire or hose projects with Chrome or Metallic Mylar sleeving. The highly polished finish matches any metallic installation and provides a strong and attractive finish that resists wear, abrasion, and damage.

3¾"	-	CBC3.75SV
7½"	-	CBC7.50SV



Low Profile Cable Ties

These cable ties are safer, smoother, and stronger than traditional cable ties. You can apply them to their bundle with side cutters or any industry installation tool. Manufactured from dependable 6/6 Nylon®, these unique cable ties are available in 7" and 14" lengths in either Clear (CL) or UV stabilized Black (BK).

7"	-	LPR7.00
14"	-	LPR14.0



Automatic Tension/Cutoff Cable Tie Tool

Single trigger tool tightens cable ties to a tension that the user presets with the tensioning wheel in the grip. Easy, one-handed operation and low profile design for installations in tight or hard to reach areas. For plastic cable ties up to 50 lb.

Cable Tie Gun - **AP-200**

High Strength Nylon Cable Ties

Easy to use nylon cable ties are perfect for virtually any bundling or management application! Economical, yet strong ties resist heat and abrasion.

7½"	-	TYR7.50	Metal Barb
3¾"	-	TYR3.75	Metal Barb
7½"	-	CBR7.50	Plastic Barb*
3¾"	-	CBR3.75	Plastic Barb*





Bench Mount Hot Knife

Heavy duty components and heavy gauge 2 1/2" blade make this tool ideal for use in production environments. Lighted power switch. Heats to 1,112°F/600°C in 30 seconds. Replaceable blades. 110 volt operation.

Bench Mount Hot Knife - **HKB0.00WH**



Replacement Knife Blade - **RBBO.00SV**



Hot Knife Accessory Kit - **HKA-KIT**



Handheld Hot Knife

Perfect for individual projects or small volume production. The large knife blade heats quickly and easily cuts and seals most grades of braided sleeving. Handle can also be used as a soldering gun with the appropriate tips. 110 volt operation.

Hand Held Hot Knife - **HKH0.00BK**



Replacement Knife Blade - **RBH0.00SV**



Heavy Duty Handheld Hot Knife

German engineered, heavy duty handheld hot knife. Long life trigger switch. Heats quickly to 1,112°F/600°C. Interchangeable blades. 110 or 220 volt models available.

HD Handheld Knife 110 volt - **GK10.00GN**

HD Handheld Knife 220 volt - **GK20.00GN**



Solder-It Hot Knife Kit

When AC power isn't available, this refillable butane powered torch fits the bill for cutting and sealing braided sleeving. Push-button ignition, adjustable to 932°F/500°C, up to 3 hour capacity and **BONUS** cutting blade attachment.

Butane Hot Knife Kit - **HKP0.00SV**

Replacement Blade - **RBPO.00SV**



Compact Hot Knife

25mm blade heats to 1,112°F/600°C in less than 10 seconds. 6" long. Weighs under 4 lbs. Replaceable carbide steel blade. Made in Germany. Available in 110 and 220 volt models.

Compact Hot Knife 110 volt - **GK30.00BE**

Compact Hot Knife 220 volt - **GK40.00BE**



Heavy Duty Hot Knife

Thermostatically controlled electronics heat the 3" carbide blade to 1,112°F/600°C in less than ten seconds and maintain preset temperature indefinitely. Heavy duty, German engineered tool will slice through advanced chemistry polymer sleeving without dragging. Available in 110 or 220 volt models.

Heavy Duty Hot Knife 110 volt - **GK50.00BE**

Heavy Duty Hot Knife 220 volt - **GK60.00BE**



Measure the sleeving to length. Keep the sleeving relaxed and don't pull it as you measure. The most accurate method is to measure the sleeving on the actual application. There will be some foreshortening of the sleeving as it expands over large bundles or connectors. Mark the cut line with a pen or marker.



When the knife is hot, slide the sleeving over the cutting blade. Practice on a piece of scrap to get a feel for the procedure. Always cut in a well ventilated area and avoid inhaling the fumes. Both the blade and the cut ends will be **HOT**. Be careful.

While the ends are still hot, use an inverted funnel (needle nose pliers or scissors also work well) to form the end into a soft flare. This will allow the sleeving to easily slide over your application and accommodate plugs or connectors without binding.



To install the sleeving over your application, just push the flared end over the ends of the wires and "walk" the sleeve down the length of the bundle from behind. Once the sleeving is in place, just run your hand over the applied sleeving to smooth it out.



Heavy Duty Bench Mount Hot Knife

Extra large, extra strong and extra heavy duty bench mount 1,000 watt hot knife features a 7" blade that heats to 1,500°F/815°C for quickly cutting through even the heaviest and largest sleeving quickly and cleanly. Lighted on-off rocker switch. Replaceable blades. 110 volt operation.

Heavy Duty Bench Mount Hot Knife - [HKB3.00BL](#)



Replacement Knife Blade - [RBB3.00SV](#)



8" Tuff-Cut Tubing Shears

Heavy duty, serrated stainless steel blade, red handles with custom Techflex logo. Adjustable switch allows different jaw opening for easy cut, snip and clip.

Techflex Tuff-Cut Tubing Shears - [SHR-REDHD](#)



Heavy Duty Serrated Edge Scissors

Serrated, angled shears are ideal for cutting Clean Cut, Flexo Stainless, and other sleeving types. Comfortable, high impact grips and stainless steel blades ensure years of use.

Heavy Duty Serrated Edge Scissors - [SHR0.00SV](#)



Premium Flexo Aramid Shears

The properties that make Flexo Aramid so tough in use also make the material a challenge to cut to length. These special shears make short work of trimming Flexo Aramid sleeving to the proper length.

Premium Flexo Aramid Shears - [KVS0.00SV](#)



Economy Flexo Aramid Shears

For non-production volumes, these lightweight economical shears easily cut through aramid materials. Handle color may vary.

Economy Flexo Aramid Shears - [SHR0228-AS](#)

Flexo Sleeving Rapid Install Tool

This completely modular system allows production level installation of braided sleeving over wire and cable bundles of virtually unlimited length. The system is simple to set up and interchangeable components accommodate diameters up to 2". For more information about this product contact your Account Representative.

1. Gather Sleeving on Fixture



2. Feed Wires



3. Set-Up Pulleys



4. Pull Wires & Sleeving



Rapid Install System-Base Unit **IN-EXP**

Rapid Install System-6' Complete Kit-Base Unit with 3 - 6' Tubes **IN-EXPCL**

Rapid Install System-3' Complete Kit-Base Unit with 3' Tubes **IN-EXPCS**

Rapid Install System-Support Bench for 6' and 3' Systems **IN-EXPSL**

Rapid Install System-Support Bench for 3' Systems **IN-EXPSS**

Rapid Install System-3' x 1/2" Tube Assembly **IN-EXPT063**

Rapid Install System-6' x 1/2" Tube Assembly **IN-EXPT066**

ClampTite Tool

ClampTite tool is designed to tighten safety wire - any size, any shape, anywhere, thus utilizing its strength and versatility. The tool provides a way of tightening wires wrapped around an object and then locking it in place. It can be used with various sizes of wires.

ClampTite - 5/4" Stainless Steel Tool with Aluminum Bronze T-Bar Nut & Lanyard Extension - **CLT01L**

Safety Wire Light, 304 Stainless Steel (.025); 1 lb. Can (600') - **SFW.025SV**

Safety Wire Standard, 304 Stainless Steel (.032); 1 lb. Can (360') - **SFW.032SV**

Safety Wire Heavy, 304 Stainless Steel (.041); 1 lb. Can (220') - **SFW.041SV**

F6 Installation Tool

This simple tool makes installing long lengths of F6 sleeving a breeze. Just insert your bundle of wires into the shank of the tool and slide it along the split in the sleeving. As the tool travels along the sleeving, it deposits the wires and allows the split to close correctly.

For Installing 1/4" F6 Sleeving - **INN0.25OR**

For Installing 1/2" F6 Sleeving - **INN0.50OR**

For Installing 3/4" F6 Sleeving - **INN0.75OR**

For Installing 1" F6 Sleeving - **INN1.00OR**

For Installing 1 1/2" F6 Sleeving - **INN1.50OR**

Flexo Flange

Techflex's Flexo Flange is a quick and effective way of creating permanent wiring installations attractively and affordably. Flexo Flange is used in a variety of applications where a secure, finished end is desirable. The processed ends add hundreds of pounds of strain relief. This innovation opens a whole new world of management possibilities that are production ready.

Patent # US 8,002,781 B1

FEN1.75BK3

FEN1.75BK5

FEN1.75BK7

FEN1.75BK10

FEN1.75BK12

FEN1.75BK15

FEN1.75BK20

FEN1.75BK25

FEN1.75BK30

FEN1.75BK40

FEN1.75BK50

FEN1.75BK75

FEN1.75BK100



For By-The-Foot Sales and Easy Access

Display Rack - DSN0.00BK



The display rack can be installed on:



*Slot Wall



*Grid Wall



Counter



Wall

*Mounting hardware included.

Spool and product management is now simpler and more efficient than ever. Our new display/dispenser rack allows easy control of sleeving inventories and provides a controlled system of neatly dispensing directly from the spools. The rack is constructed from tough ABS plastic, with plenty of room for a wide range of products. The spools simply drop into the preformed slots and turn freely for dispensing. Full visibility and access ensures easy management of remaining inventory and simple drop-in replacement of empty spools.



The display rack holds up to 6 shop spools.

Space saving, easy access design



Engineered for easy and secure wall mounting

PRECISION CUTTING

The Techflex Cutting Department is equipped to save our customers time and money. Our custom cutting services are ready to create accurate parts for your production line which are ready to use. Our skilled workers and precision equipment can cut any sleeving to any length. Your precision cut pieces can be coiled or wrapped in counted bundles, bagged, labeled, and shipped. Just ask your account representative for details to find out how easy and affordable it is to order your Techflex cut parts!



- Automated Hot Cutting
- Custom Heat Seal
- High Speed Cold Cut
- Ultrasonic Weld/Cut

ENGINEERED MATERIALS

Techflex goes above and beyond to push the boundaries for our customers. Every day our team is working to help create the products that make your projects work. We can make custom colors and blends of many products to work with your designs. Techflex over-braiding can be a time saving process for some applications and the Techflex Team is well equipped for your project. Custom braid constructions and size variations of our standard braid are regularly reengineered to better meet customer specific requirements. We even offer a specialty ultrasonic cleaning service to remove manufacturing oils and residue for sensitive applications.



- Over Braiding
- Construction Customization
- Specialty Sizes
- Ultrasonically Cleaned
- Custom Colors/Blends



CUSTOM PRINTING

Techflex continues to develop our capabilities for custom product imprinting. Customer logos, part numbers, company information, and warning labels are commonly applied to Techflex sleeveings by way of our printing services. The Techflex art department will help insure that customer expectations are well met. Let our printing specialists help you put the message you want on your next project.

- Silk Screening
- Pad Printing
- Heat Shrink Printing



DESIGN & TECHNICAL SUPPORT

We can assist you with everything from custom product development and design assistance to final assembly services in our facility. We are equipped and staffed to provide a wide range of fabrication services and custom assembly solutions. When it comes to innovation with expandable sleeving, nobody can push the envelope further than Techflex. That's companies around the world count on us with their plans for non-traditional applications of our braided products. Once products are finished we help with keep you on schedule with our JIT shipping for seamlessly filling you inventory programs such as Kanban.



- Engineering Assistance
- Prototype Development
- Packaging Design Assistance
- Product Design Assistance
- Kanban Replenishment
- JIT Inventory



SPECIALTY PACKAGING

Techflex has been packaging braided sleeving products for customers since our beginnings over 50 years ago. We've done everything from simple plastic bags with header cards to blister packs to custom revisions of our existing clamshell templates to fully customized packaging solutions. Private label spools, boxes, headers, and more can make your branding message seamless. Splice Free spools are often desirable for long length applications and can easily be made for you.

- Coiling
- Bundling
- Splice Free
- Private Labeling
- Custom Packaging
- Custom Kitting
- Standard Kitting



BRAID SHAPING

Our precision shaping technology sets us apart from all other braiding companies. Early on the founders of Techflex recognized that we can create a significantly better customer experience if we pre shape the material to fit their application. This technology is a standard part of many of our products and can be added to many others. Our proprietary systems create easy to install sleeving that holds its form for the lifetime of the product. Ask your sales person for information today.

- Heat Treating
- Rounding
- Contractible
- Flattening

PACKAGED KITS

For Do It Yourself Projects & Retail Sales

Vibrant graphics, eye-catching packaging, and vandal proof seals, are just a few of the standard features Techflex provides in our prepackaged kits. Retail size kits make it easy for end users to get industry trusted Techflex products in a manageable quantity. Specialty distributors will find that Techflex "Packaged Kits" make an easy to manage SKU for helping customers solve problems. Techflex braided sleeving kits are an ideal way to have project ready product at your fingertips.



High Performance Products

Techflex High Performance products are engineered to provide wire and cable management, and thermal protection in automotive and marine applications. The extensive selection of High Performance products ensures a product that will fill any customization or renovation needs.



F6 Reflex® Bike Kits

Enhance nighttime bicycling safety by installing these highly reflective F6 Reflex sleeves on your bicycle cables. Thousands of miniature retroreflective lenses reflect light back to the source from up to 675 ft. away. The wrap-around design easily slips on over existing cables with no tools or disassembly required. A profitable value added service bicycle sales repair and rental shops.

Case Mod® Computer Cable Customization Kits

After the lights and the supercharged components, the final touch for computer case customization is "modding" the cables. Our Case Mod line provides computer enthusiasts with over 200 products to choose from, including UV reactive colors, to manage and customize the wires, cables and hoses in their supercharged custom cases.



Flexo® Scuba Hose Covers

Underwater safety is a primary concern. FLEXPLO adds an important and comforting level of protection and visibility. Commercial and recreational divers protect and identify their hoses with FLEXPLO expandable braided sleeving. The tough braided sleeving provides a layer of protection from abrasion, degradation and wear, and the bright colors increase visibility underwater.



Flyflex® Fly Tying Body Material

Flyflex is one of the most unusual and effective fly and lure

body materials to come around in a long time. It integrates easily into time tested construction and presentation techniques, yet allows for new and exciting configurations. The flexible, expandable material is tough enough to resist repeated uses, salt water and UV damage, and provides an "al-luring" new facet to the sport.

We also manufacture Cordmate® Dockside Power Cable Sleeves, Flexo Mounting System and Small Office/Home Office Cable Management kits. For detailed information about any of these product lines, please contact an Account Representative.

1-973-300-9242
www.techflex.com

**PRODUCT
COMPARISON**

GENERAL PURPOSE



Grade	PTN	PTO	PTT	PTM	PTD	F6N	F6W	CCP	FWN	GWN
Page Number	6-7	8	8	9	9	10-11	12	13	14	15
PHYSICAL PROPERTIES										
Monofilament Diameter ASTM D-204	.010	.010	.010	.010	.010	.008-.015	.009	.008	.010	.010
Flammability Rating*	UL94	UL94	UL94	UL94	UL94	UL94	—	UL94	—	—
Recommended Cutting	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Scissor/HK	Hot Knife	Hot Knife
Colors	30	7	5	5	2	4	2	2	4	1
Wall Thickness	.025	.025	.025	.025	.025	.024-.038	.027	.024	.025	.025
Tensile Strength (Yarn) ASTM D-2256 Lbs	7.5	7.5	7.5	7.5	7.5	6-10	6-10	6	7.5	7.5
Abrasion Resistance	Med	Low	Med	Med	Med	Med	Med	Med	Med	Med
Specific Gravity ASTM D-792	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
Moisture Absorption % ASTM D-570	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2
Hard Vacuum Data ASTM E-595 at 10-5 torr										
TML	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19
CVCM	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WVR	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16
Smoke D-Max ASTM E-662	56	56	56	56	56	56	56	56	56	56
Outgassing	Med	Med	Med	Med	Med	Med	Med	Med	Med	Med
Oxygen Index ASTM D-2863	21	21	21	21	21	21	21	21	21	21
OPERATING TEMPERATURES										
Minimum Continuous	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C
Maximum Continuous MIL-23053	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	†257°F/125°C	†257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C
Melt ASTM D-2117	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C
CHEMICAL RESISTANCE 1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected										
Aromatic Solvents	2	2	2	2	2	2	2	2	2	2
Aliphatic Solvents	1	1	1	1	1	1	1	1	1	1
Chlorinated Solvents	3	3	3	3	3	3	3	3	3	3
Weak Bases	1	1	1	1	1	1	1	1	1	1
Salts	1	1	1	1	1	1	1	1	1	1
Strong Bases	2	2	2	2	2	2	2	2	2	2
Salt Water O-S-1926	1	1	1	1	1	1	1	1	1	1
Hydraulic Fluid MIL-H-5606	1	1	1	1	1	1	1	1	1	1
Lube Oil MIL-L-7808	1	1	1	1	1	1	1	1	1	1
De-Icing Fluid MIL-A-8243	1	1	1	1	1	1	1	1	1	1
Strong Acids	3	3	3	3	3	3	3	3	3	3
Strong Oxidants	2	2	2	2	2	2	2	2	2	2
Esters/Keytones	1	1	1	1	1	1	1	1	1	1
UV Light	1	1	1	1	1	1	1	1	1	1
Petroleum	1	1	1	1	1	1	1	1	1	1
Fungus ASTM G-21	1	1	1	1	1	1	1	1	1	1
Halogen Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SVHC	None	None	None	None	None	None	None	None	None	None
UL/CSA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

†Techflex recommends that F6 Self-Wrapping products be tied at intervals if they are going to be continually exposed to temperatures near the high end of the continuous operating temperature.

*UL94 V-0 RAW MATERIAL

HEAVY DUTY

METAL



HWN	SDN	NHN	RRN	DFN	DWN	DBN	DPN	DWT	DWG	MBN	MFN
16	17	18	19	20	21	22	23	24	25	26	27
.015	.020	FLAT FILAMENT .020	.010	NA	NA	NA	NA	NA	NA	.005-.010	.005-.010
UL94	—	—	—	—	—	—	—	—	—	Non Flammable	Non Flammable
Hot Knife	Hot Knife	Hot Knife	Hot Knife	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Shears	Shears
3	1	1	1	1	1	1	1	1	1	1	1
.038	.05	.05	.025	.045	.026	.064	.08	.02	.05	.013-.025	NA
10	19	19	7.5	—	—	—	—	—	—	—	—
High	High	Extremely High	Med	High	Extremely High	Extremely High	Extremely High	Extremely High	Extremely High	Med	Med
1.38	1.14	1.12	1.38	1.14	1.13	1.38	1.14	1.3	1.3	8.9	8.9
.1-2	2.5	2.5	.1-2	2.7	2.7	.1-2	2.7			NA	NA
.19	1.10	1.10	.19	1.10	1.10	.19	1.10	—	—	—	—
.00	.01	.01	.00	.01	.01	.00	.01	—	—	—	—
.16	.69	.69	.16	.69	.69	.16	.69	—	—	—	—
56			56			56		—	—	—	—
Med	High	High	Med	High	High	Med	High	—	—	—	—
21	22	22	21	22	22	21	22	—	—	—	—
-94°F/-70°C	-49°F/-45°C	-76°F/-60°C	-94°F/-70°C	-49°F/-45°C	-60°F/-51°C	-94°F/-70°C	-49°F/-45°C	-40°F/-40°C	-60°F/-51°C	—	—
257°F/125°C	302°F/150°C	302°F/150°C	257°F/125°C	248°F/120°C	200°F/93°C	257°F/125°C	248°F/120°C	250°F/140°C	250°F/140°C	—	—
482°F/250°C	493°F/256°C	509°F/265°C	482°F/250°C	410°F/210°C	410°F/210°C	482°F/250°C	410°F/210°C	800°F/427°C		449°F/232°C	449°F/232°C
2	1	1	2	1	1	2	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	3	1	1	3	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	1	2	2
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
3	5	5	3	5	4	3	5	4	4	5	5
2	5	5	2	5	4	2	5	4	4	5	5
1	1	1	1	1	1	1	1	1	1	1	1
1	2	1	1	2	1	1	2	1	1	2	2
1	3	2	1	3	2	1	3	2	1	2	2
1	2	2	1	2	1	1	2	1	1	2	2
Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	—	—	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
None	None	None	None	None	—	None	None	—	—	None	None
Yes	No	No	No	No	No	No	No			No	No

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**PRODUCT
COMPARISON**

METAL/SHIELDING

ADVANCED ENGINEERING



Grade	MBC	SSN	MBB	SSL	FSN	CNN	CCF	FRN	F6V	F6F
Page Number	27	28	28	29	30	31	32	33	34	35

PHYSICAL PROPERTIES

Monofilament Diameter ASTM D-204	.005	.010-.016	.005	.005-.010	.010	.011	.008	.010	.010	.008-.015
Flammability Rating*	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	—	VW-1	VW-1	VW-1	VW-1
Recommended Cutting	Shears	Shears	Shears	Shears	Shears	Hot Knife	Scissor/HK	Hot Knife	Hot Knife	Hot Knife
Colors	1	1	1	1	1	1	2	4	1	1
Wall Thickness	.013	.025-.04	.013	.013-.025	.025	.028	.024	.025	.027	.024-.038
Tensile Strength (Yarn) ASTM D-2256 Lbs	—	—	—	—	—	—	4	5	4-6.5	4-6.5
Abrasion Resistance	Med	High	Med	High	Low	Med	Med	Med	Med	High
Specific Gravity ASTM D-792	8.9	NA	8.5	NA	NA	1.13	1.38	1.38	1.38	1.38
Moisture Absorption % ASTM D-570	NA	NA	NA	NA	NA	2.5	.1-.2	.1-.2	.1-.2	.1-.2

Hard Vacuum Data ASTM E-595 at 10-5 torr

TML	—	.00	—	.00	—	.19	.19	.19	.19	.19
CVCM	—	.00	—	.00	—	.04	.04	.04	.04	.04
WVR	—	.00	—	.00	—	.06	.06	.06	.06	.06
Smoke D-Max ASTM E-662	—	—	—	—	—	—	275	275	275	275
Outgassing	—	Very Low	—	Very Low	—	—	Med	Med	Med	Med
Oxygen Index ASTM D-2863	—	—	—	—	—	—	31	31	31	31

OPERATING TEMPERATURES

Minimum Continuous	—	—	—	—	-40°F/-40°C	-49°F/-45°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C
Maximum Continuous MIL-23053	—	—	—	—	302°F/150°C	302°F/150°C	257°F/125°C	257°F/125°C	†257°F/125°C	†257°F/125°C
Melt ASTM D-2117	449°F/232°C	2,650°F/1,454°C	1,700°F/927°C	2,650°F/1,454°C	449°F/232°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	446°F/230°C

CHEMICAL RESISTANCE 1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected

Aromatic Solvents	1	1	1	1	2	1	2	2	2	2
Aliphatic Solvents	1	1	1	1	1	1	1	1	1	1
Chlorinated Solvents	1	1	2	1	3	1	3	3	3	3
Weak Bases	1	1	1	1	1	1	1	1	1	1
Salts	1	2	1	2	1	1	1	1	1	1
Strong Bases	2	2	5	2	2	2	2	2	2	2
Salt Water OS-1926	1	2	1	2	1	1	1	1	1	1
Hydraulic Fluid MIL-H-5606	1	1	1	1	1	1	1	1	1	1
Lube Oil MIL-L-7808	1	1	1	1	1	1	1	1	1	1
De-Icing Fluid MIL-A-8243	1	1	1	1	1	1	1	1	1	1
Strong Acids	5	2	5	2	3	4	3	3	3	3
Strong Oxidants	5	2	5	2	2	4	2	2	2	2
Esters/Keytones	1	1	1	1	1	1	2	2	2	1
UV Light	2	1	2	1	1	2	1	1	1	1
Petroleum	2	1	2	1	1	3	1	1	1	1
Fungus ASTM G-21	2	1	2	1	1	2	1	1	1	1
Halogen Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SVHC	None	None	None	None	None	None	None	None	None	None
UL/CSA	No	No	No	No	Yes	No	Yes	Yes	Yes	Yes

†Techflex recommends that F6 Self-Wrapping products be tied at intervals if they are going to be continually exposed to temperatures near the high end of the continuous operating temperature.

*UL94 V-O RAW MATERIAL

**PRODUCT
COMPARISON**

EXTREME TEMPERATURE



Grade	Spark Plug	FHH	SLN	HFN	HSN	VWN	THERMASHIELD	T6F	CNS	TST
Page Number	48	49	49	50	50	51	52-53	54	55	55

PHYSICAL PROPERTIES

Monofilament Diameter ASTM D-204	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability Rating*	VW-1	VW-1	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable
Recommended Cutting	NA	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor
Colors	4	1	1	2	1	1	1	1	1	1
Wall Thickness	.085	.025-.035	.06	.0625-.125	.0625-.125	.0625	See Pg. 52-53	.042	.025	.068
Tensile Strength (Yarn) ASTM D-2256 Lbs										
Abrasion Resistance	High	Med	Med	NA	NA	NA	NA	NA	NA	NA
Specific Gravity ASTM D-792	1.0-1.8	1.0-1.8		2.6	2.2	3.2				
Moisture Absorption % ASTM D-570	.01	.01								

Hard Vacuum Data ASTM E-595 at 10-5 torr

TML	.02	.01								
CVCM	.01	.00								
WVR	.00	.00								
Smoke D-Max ASTM E-662										
Outgassing	Low	Low								
Oxygen Index ASTM D-2863										

OPERATING TEMPERATURES

Minimum Continuous	-94°F/-70°C	-94°F/-70°C	—	-70°F/-57°C	—	-436°F/-260°C	-76°F/-60°C	-76°F/-60°C	-76°F/-60°C	-76°F/-60°C
Maximum Continuous MIL-H-23053	1,202°F/650°C	1,202°F/650°C	1,800°F/982°C	1,200°F/649°C	2,000°F/1,093°C	1,292°F/700°C	491°F/255°C	392°F/200°C	392°F/200°C	392°F/200°C
Melt ASTM D-2117	2,048°F/1,120°C	2,048°F/1,120°C	3,000°F/1,649°C	2,048°F/1,120°C	3,000°F/1,649°C	2,642°F/1,450°C	2,048°F/1,120°C	2,048°F/1,120°C	2,048°F/1,120°C	2,048°F/1,120°C

CHEMICAL RESISTANCE 1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected

Aromatic Solvents	1	1	1	1	1	1	1	1	1	1
Aliphatic Solvents	1	1	1	1	1	1	1	1	1	1
Chlorinated Solvents	1	1	1	1	1	1	1	1	1	1
Weak Bases	1	1	1	1	1	1	1	1	1	1
Salts	1	1	1	1	1	1	1	1	1	1
Strong Bases	1	1	1	1	1	1	1	1	1	1
Salt Water O-S-1926	1	1	1	1	1	1	1	1	1	1
Hydraulic Fluid MIL-H-5606	1	1	1	1	1	1	1	1	1	1
Lube Oil MIL-L-7808	1	1	1	1	1	1	1	1	1	1
De-Icing Fluid MIL-A-8243	1	1	1	1	1	1	1	1	1	1
Strong Acids	2	2	2	2	2	2	2	2	2	2
Strong Oxidants	2	2	2	2	2	2	2	2	2	2
Esters/Keytones	1	1	1	1	1	1	1	1	1	1
UV Light	2	2	2	2	2	2	1	1	1	1
Petroleum	1	1	1	1	1	1	1	1	1	1
Fungus ASTM G-21	1	1	1	1	1	1	1	1	1	1
Halogen Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SVHC	None	None	None	None	None	None	—	—	—	—
UL/CSA	Yes	Yes	No	No	No	No	No	No	No	No

*Techflex recommends that F6 Self-Wrapping products be tied at intervals if they are going to be continually exposed to temperatures near the high end of the continuous operating temperature.

*UL94 V-0 RAW MATERIAL

**PRODUCT
COMPARISON**

SPECIALTY



Grade	F6R	RFN	NRN	F6Q	DRN	NSN	MYN/MYE	CHN	CXN	FFN	CAL/CAN/CAH
Page Number	66	66	67	67	70	71	72	73	73	74	75
PHYSICAL PROPERTIES											
Monofilament Diameter ASTM D-204	.008-.015	.010	.010	.008-.015	NA	.028	.010	.010	.005	.006	NA
Flammability Rating*	—	—	UL94	UL94	—	—	—	—	—	UL94	Non Flammable
Recommended Cutting	Hot Knife	Hot Knife	Scissor /HK	Scissor /HK	Scissor	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Scissor
Colors	1	2	1	1	1	3	2	1	2	1	1
Wall Thickness	.024-.025	.026	.025	.04	.012	.07	.025	.025	.013	.015	.013-.030
Tensile Strength (Yarn) ASTM D-2256 Lbs			7.5	7.5						4.5	
Abrasion Resistance	Low	Low	Med	Med	Extremely High	Med	Very Low	Med	Med	Low	Med
Specific Gravity ASTM D-792	1.38	1.38	1.38	1.38	1.13	1.38	1.3	1.3	1.3	1.38	1.75-1.85
Moisture Absorption % ASTM D-570	.1-2	.1-2	.1-2	.1-2	2.7	.1-2	.1-2		.1-2	.1-2	
Hard Vacuum Data ASTM E-595 at 10-5 torr											
TML			.19	.19			.19	.19	.19	.19	
CVCM			.00	.00			.00	.00	.00	.00	
WVR			.16	.16			.16	.16	.14	.16	
Smoke D-Max ASTM E-662											
Outgassing			Med	Med			Med	Med	Med	Med	
Oxygen Index ASTM D-2863			21	21			21	21	21	21	
OPERATING TEMPERATURES											
Minimum Continuous	-22°F/-30°C	-22°F/-30°C	-94°F/-70°C	-94°F/-70°C	-60°F/-51°C	-40°F/-40°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	—
Maximum Continuous MIL-23053	‡257°F/125°C	257°F/125°C	257°F/125°C	‡257°F/125°C	200°F/93°C	175°F/79°C	257°F/125°C	257°F/125°C	302°F/150°C	257°F/125°C	—
Melt ASTM D-2117	446°F/230°C	446°F/230°C	446°F/230°C	446°F/230°C	410°F/374°C	260°F/126°C	482°F/250°C	482°F/250°C	500°F/260°C	482°F/250°C	NA
CHEMICAL RESISTANCE 1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected											
Aromatic Solvents	2	2	2		1	2	2	2	2	2	
Aliphatic Solvents	1	1	1		1	1	1	1	1	1	
Chlorinated Solvents	3	3	3		1	3	3	3	3	3	
Weak Bases	1	1	1		1	1	1	1	1	1	
Salts	1	1	1		1	1	1	1	1	1	
Strong Bases	2	2	2		2	2	3	3	3	2	
Salt Water O-S-1926	1	1	1		1	1	1	1	1	1	
Hydraulic Fluid MIL-H-5606	1	1	1		1	1	1	1	1	1	
Lube Oil MIL-L-7808	1	1	1		1	1	1	1	1	1	
De-Icing Fluid MIL-A-8243	1	1	1		1	1	1	1	1	1	
Strong Acids	3	3	3		3	3	3	3	3	3	
Strong Oxidants	2	2	2		4	2	2	2	2	2	
Esters/Keytones	1	1	1		1	1	1	1	1	1	1
UV Light	1	1	1		1	1	1	1	1	1	2
Petroleum	1	1	1		2	1	1	1	1	1	
Fungus ASTM G-21	1	1	1		1	1	1	1	1	1	
Halogen Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
SVHC			None	None			None	None	None	None	
UL/CSA	No	No	No	No	No	No	No	No	No	No	No

‡Techflex recommends that F6 Self-Wrapping products be tied at intervals if they are going to be continually exposed to temperatures near the high end of the continuous operating temperature.

*UL94 V-0 RAW MATERIAL



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