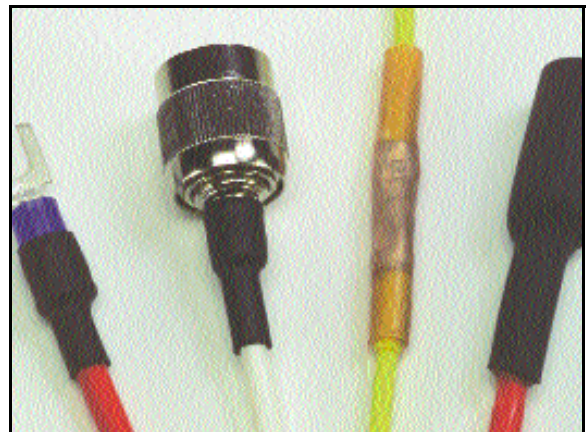


Tubing & Sleeving Catalog



Expandable Braided Sleeving

VOLTREX®

Expandable Braided Sleeving



Expandable sleeving is a lightweight, woven, polyester monofilament tubing designed to encapsulate and protect cable bundles and wire harnesses. Perfect for many aerospace, computer, automotive, electronics, and industrial applications. Self-fitting, adjusts to irregular surfaces and contours. Provides abrasion and fungus resistance in addition to being unaffected by most chemical environments and common solvents. (Use of "hot knife" is recommended for cutting.) Wall thickness: 0.025". Standard operating temperature: -75°C (-103°F) to 125°C (257°F).

Flame Retardant Braided Sleeving (meets UL VW-1)

Melt Temp: 250°C (482°F)

Color: Black w/White Tracer

Standard Braided Sleeving

Melt Temp: 230°C (446°F)

Color: Black

Size	Usable I.D. Range	Nominal I.D.	Expanded I.D.	SPC Type No.	Spool
1/8"	3/32" to 1/8"	.093"	.125"	8465-0220	100 FT
1/4"	1/8" to 3/8"	.125"	.375"	8465-0221	100 FT
1/2"	1/4" to 3/4"	.250"	.750"	8465-0222	100 FT
3/4"	1/2" to 1-1/4"	.500"	1.250"	8465-0223	50 FT
1 1/4"	3/4" to 1-1/2"	.750"	1.500"	8465-0224	50 FT
1 3/4"	1-1/4" to 2-1/2"	1.250"	2.500"	8465-0225	25 FT
2"	1-1/2" to 3"	1.500"	3.000"	8465-0226	25 FT
2 1/2"	1-3/4" to 3-1/2"	1.750"	3.500"	8465-0227	25 FT

Size	Usable I.D. Range	Nominal I.D.	Expanded I.D.	SPC Type No.	Spool
1/8"	3/32" to 1/8"	.093"	.125"	8465-0228	100 FT
1/4"	1/8" to 3/8"	.125"	.375"	8465-0229	100 FT
3/8"	3/16" to 1/2"	.187"	.625"	8465-0230	100 FT
1/2"	1/4" to 3/4"	.250"	.750"	8465-0231	100 FT
3/4"	1/2" to 1-1/4"	.500"	1.250"	8465-0232	50 FT
1 1/4"	3/4" to 1-1/2"	.750"	1.500"	8465-0233	50 FT
1 1/2"	1-3/4" to 2"	1.750"	2.000"	8465-0234	50 FT
1 3/4"	1-1/4" to 2-1/2"	1.250"	2.500"	8465-0235	25 FT
2"	1-1/2" to 3"	1.500"	3.000"	8465-0236	25 FT
2 1/2"	1-3/4" to 3-1/2"	1.750"	3.500"	8465-0237	25 FT

Fray Resistant Expandable Braided Sleeving

Possessing many of the same qualities as the standard expandable sleeving, our fray resistant sleeving provides an innovative covering for wire, cable and hose assemblies. Fray resistant sleeving offers easy field installation without the need for a hot knife. Wall thickness .036".

Flame Retardant Fray-Resistant Sleeving

Melt Temp: 250°C (482°F)

Color: Black w/White Tracer



Standard Fray-Resistant Sleeving

Melt Temp: 230°C (446°F)

Color: Black

Size	Expansion		Spool Length	SPC Type No.
	Min	Max		
1/8"	1/8"	1/4"	100 FT	SPC5154
1/4"	5/32"	7/16"	100 FT	SPC5155
3/8"	3/16"	5/8"	100 FT	SPC5156
1/2"	1/4"	3/4"	100 FT	SPC5157
3/4"	5/8"	1"	50 FT	SPC5158
1"	3/4"	1 3/16"	50 FT	SPC5159
1 1/4"	1"	1 1/2"	50 FT	SPC5160
1 1/2"	1 1/4"	2"	50 FT	SPC5161

Size	Expansion		Spool Length	SPC Type No.
	Min	Max		
1/8"	1/8"	1/4"	100 FT	SPC5146
1/4"	5/32"	7/16"	100 FT	SPC5147
3/8"	3/16"	5/8"	100 FT	SPC5148
1/2"	1/4"	3/4"	100 FT	SPC5149
3/4"	5/8"	1"	50 FT	SPC5150
1"	3/4"	1 3/16"	50 FT	SPC5151
1 1/4"	1"	1 1/2"	50 FT	SPC5152
1 1/2"	1 1/4"	2"	50 FT	SPC5153

Hook & Loop Wrap Braided Sleeving

Lightweight, expandable, braided monofilament sleeving with hook & loop fastening system is designed to allow easy bundling and protection for wires, cables, hoses and tubes. Monofilaments are constructed from durable P.E.T. providing continuous protection against abrasion, fungus, and rotting in addition to being unaffected by most chemical environments, and solvents. Meets UL VW-1 standard. Standard operating temperature: -75°C (-103°F) to 125°C (257°F). Color: black



Size	Nom. I.D.	SPC Type No.	Total Footage
1/2"	.50	8465-0238	25 FT
3/4"	.75	8465-0239	25 FT
1 1/4"	1.25	8465-0240	25 FT
2"	2	8465-0241	25 FT
1 1/4"	1.250	SPC5162	3 FT

SPC	3M	Alpha	Raychem	Insultab	Sumitomo	Mil Spec (SPC Only)
Thin Wall Tubing						
FPS FPA	FP-301	FIT 221	RNF-100	HS-101	F2, B2, A2	MIL-I-23053/5, CL1 & 2
FPF FPFA	FP-301-VW	FIT-221V	Versafit MIL-LT		F2, B2, F5	MIL-I-23053/5, CL3
LTP	VFP-876	FIT-221	RT-876	HS-876	F2, B2	Mil-R-46846, Type V
SRS	SR-350	FIT-295	CRN	HS-101-SR	B8, D	MIL-I-23053/6, CL 1& 2
FPHS	SFTW-203		RNF-3000		B2(3X)	MIL-I-23053/5 CL 1
FPG	SFTW-202 GYS	FIT-260	DCPT		B2(Y/G)	MIL-I-23053/5, CL 1
Adhesive Lined Tubing						
SRM	MW	FIT-300	SCL	HS-101-MW	W5DL	MIL-I-23053/4, CL 1
PHD	EPS-200	FIT-750	TAT-125	HS-101-MW 2:1	O2F2, O2B2	MIL-I-23053/4, CL 2
PHS	EPS-300	FIT-321	ATUM 3:1	HS-010-MW 3:1	W3F2	MIL-I-23053/4, CL 3
SHS	EPS-400		ATUM 4:1	HS-101-MW 4:1	W3B2(4X)	
Special Purpose Tubing						
KYS	KYNAR	FIT-350	KYNAR	HSK-600	K, K2	MIL-I-23053/8
NPS	NST	FIT-600	NT, NT-FR	HSN-100	R10	MIL-I-23053/1, CL 1 & 2
n/a	VTN-200	FIT-650	VPB, Viton*	HS-VTN		MIL-I-23053/1, CL 1 & 2
n/a	PSTH		DR 25		R120	MIL-I-23053/13
Head Wall Tubing						
n/a	MDT	FIT-700	SST, MWMT	CTV		MIL-I-23053/15, CL 2
n/a	HDT	FIT-700	FCSM	CTHV		MIL-I-23053/15, CL 1
n/a	CCT	FIT-650	TSC, SST			

SPC	Cole-Flex	ICO-Rally	Canusa	Panduit	UL	CSA	Mil Spec (SPC Only)
Thin Wall Tubing							
FPS FPA	ST221, STS221	HIX	CPX100	HSTT	Yes	Yes	MIL-I-23053/5, CL1 & 2
FPF FPFA	STV221, STSV221			HSTTV	Yes	Yes	MIL-I-23053/5, CL3
LTP	ST219	HXT	CPX876	HSTTM	Yes	Yes	Mil-R-46846, Type V
SRS	ST295	HRK		HSTTR	Yes		MIL-I-23053/6, CL 1& 2
FPHS					Yes	Yes	MIL-I-23053/5 CL 1
FPG	ST260				Yes	Yes	MIL-I-23053/5, CL 1
Adhesive Lined Tubing							
SRM	ST300	HIM	CFM	HSTTRA	Yes		MIL-I-23053/4, CL 1
PHD	ST302		CPA100	HSTTVA	Yes		MIL-I-23053/4, CL 2
PHS	ST303			HSTTA	Yes		MIL-I-23053/4, CL 3
SHS					Yes		
Special Purpose Tubing							
KYS	ST350	HKX		HSTTK	Yes	Yes	MIL-I-23053/8
NPS	ST700	HNT		HSTTN			MIL-I-23053/1, CL 1 & 2
n/a	ST650						MIL-I-23053/1, CL 1 & 2
n/a							MIL-I-23053/13
Head Wall Tubing							
n/a	SPCM						MIL-I-23053/15, CL 2
n/a	SPC		CPE/CTW				MIL-I-23053/15, CL 1
n/a			CFTV				

Recommendations contained in this competitive cross reference chart related to the Seller's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use.

*"Versafit" is a registered trade name of Raychem.

*"Kynar" is a registered trademark of ELF Atochem North America, Inc.

*"Viton" is a registered trademark of E.I. du Pont de Nemours & Co., Inc.

Chemical Resistance Chart

Chemical	PVC-105 PVC-125	Flexible Polyolefin	Semi-Rigid Polyolefin	KYNAR*	Neoprene	Teflon**
Acetates (esters)	T	T	T	T	T	R
Acetates (water sol. salts)	T	T	T	T	T	R
Acetone	T	T	T	N	T	R
Acids-Inorganic (dil.)	T	R	R	R	R	R
Acids-Inorganic (conc.)	T	T	T	R	R	R
Acids-Organic	T	T	T	T	T	R
Alcohols	T	R	R	R	R	R
Aldehydes	T	T	T	T	T	R
Aliphatic Hydrocarbons	T	T	T	R	T	R
Alkali Solutions (dil.)	T	R	R	R	R	R
Alkali Solutions (conc.)	T	T	T	R	T	R
Aromatic Hydrocarbons	T	T	T	T	N	R
Bromine	T	T	T	R	T	R
Carbon Tetrachloride	T	T	T	R	N	R
Chlorine-wet	T	T	T	R	T	R
Chlorine-dry	T	T	T	R	T	R
Esters	T	T	T	T	T	R
Ethylene Dichloride	T	T	T	T	T	R
Ethylene Glycol	T	T	T	T	R	R
Freon	T	T	T	R	T	R
Gasoline	T	R	R	R	R	R
Glucose	T	R	R	R	T	R
Glycerine	T	T	T	T	T	R
Hydrogen Peroxide-dil.	T	T	T	R	T	R
Hydrogen Peroxide-conc.	T	T	T	T	T	R
Hydrogen Sulfide	T	T	T	T	T	R
Kerosene	T	R	R	R	R	R
Lacquer Thinners	T	T	T	R	T	R
Linseed Oil	T	T	T	T	R	R
Mineral Spirits	T	R	R	T	T	R
Nitrogen	T	T	T	T	T	R
Oils	T	T	T	T	R	R
Soap Solutions	T	T	T	T	R	R
Sulfur Dioxide	T	T	T	T	T	R
Turpentine	T	T	T	T	R	R
Urea	T	T	T	T	T	R
Ketones	T	T	T	N	T	R
JP-4	T	R	R	R	T	R

Key: R = Recommended
T = Should be tested before use
N = Not Recommended

* Penwalt Reg. T.M.
** Du Pont Reg. T.M.