

# 3M Heat Shrinkable Tubing



## KYNAR®, EPS-300, SFTW202 GYS, SFTW203, 8420 & 8440 Series

**KYNAR Series-Modified Polyvinylidene Fluoride** • Shrink Temperature: 175°C (347°F) • Color: Clear • Shrink Ratio: 2:1. Cross-linked, thin-walled tubing offers a high degree of mechanical strength and high temperature resistance. This has outstanding abrasion resistance and cut-through properties in combination with high dielectric strength. It is inherently flame retardant, semi-rigid and highly resistant to most industrial fuels, chemicals and solvents. KYNAR is a registered trademark of Elf Atochem North America, Inc. **EPS-300 Series-Adhesive-Lined Flexible Polyolefin** • Shrink Temperature: 121°C (250°F) • Color: Black • Shrink Ratio: 3:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. **SFTW202 GYS Series-Very Flexible Polyolefin** • Shrink Temperature: 100°C (212°F) • Color: Green and yellow striped • Shrink Ratio: 2:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted. **SFTW203 Series-Very Flexible Polyolefin** • Shrink Temperature: 100°C (212°F) • Color: Black • Shrink Ratio: 3:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted. **8420 Series-EPDM and 8440 Series-Silicone Rubber Tubes** • Color: Black (8420 Series) and Gray (8440 Series). Cold Shrink™ Insulators-Open-ended, tubular rubber sleeves that are factory expanded and assembled onto a removable plastic core. Provides a reliable seal without the use of heat, a torch or adhesive - simply position and unwind the core allowing the tube to shrink and form a water-resistant seal.

Tubing Size Diameter± Inches (mm)	Inside Diameter		Nominal Recovered Wall Thick. mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length				
	Minimum Expanded mm	Maximum Recovered mm			4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
<b>KYNAR Series - Modified Polyvinylidene Fluoride</b>									
3/64 (1.19)	1.17	0.58	0.25	KY364C-ND	5.49	9.52	21.06	43.96	73.26
1/16 (1.60)	1.60	0.79	0.25	KY116C-ND	5.64	9.77	21.62	45.11	75.18
3/32 (2.38)	2.36	1.17	0.25	KY332C-ND	6.03	10.45	23.12	48.25	80.42
1/8 (3.18)	3.18	1.57	0.25	KY018C-ND	6.52	11.31	25.01	52.20	86.99
3/16 (4.78)	4.75	2.36	0.25	KY316C-ND	9.19	16.26	35.35	67.87	—
1/4 (6.35)	6.35	3.18	0.30	KY014C-ND	11.34	20.06	43.61	83.73	—
3/8 (9.52)	9.53	4.75	0.30	KY038C-ND	13.65	24.16	52.12	100.83	—
1/2 (12.70)	12.70	6.35	0.30	KY012C-ND	18.12	31.51	63.02	—	—

Tubing Size Dia. ± Inch (mm)	Inside Diameter		Recovered Wall Thickness mm	Melttable mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length				
	Minimum Expanded mm	Maximum Recovered mm				4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
<b>EPS-300 Series - Adhesive-lined, Flexible, Polyolefin</b>										
1/8 (3.18)	3.18	1.02	1.02	0.51	EPS3018K-ND	9.98	17.30	38.26	79.84	120.60
3/16 (4.78)	4.75	1.57	1.02	0.51	EPS3316K-ND	9.48	16.77	36.47	67.83	—
1/4 (6.35)	6.35	2.03	1.02	0.51	EPS3014K-ND	11.74	20.77	45.15	83.98	—
3/8 (9.52)	9.53	3.05	1.40	0.62	EPS3038K-ND	13.28	23.50	51.08	95.01	—
1/2 (12.70)	12.70	4.06	1.78	0.76	EPS3012K-ND	15.52	27.46	59.70	111.04	—

Tubing Size Dia. ± Inch (mm)	Inside Diameter		Nominal Recovered Wall Thick. mm	(NOTE: "X" in Part No. Represents Number of Feet)					
	Minimum Expanded mm	Maximum Recovered mm		Digi-Key Part No.	5'	25'	50'	Reel Qty.	Price Per Full Reel
<b>SFTW202 GYS Series - Very Flexible Polyolefin</b>									
1/8 (3.18)	3.18	1.50	0.51	SFTW2018E-X-ND	6.34	25.37	36.36	500	262.53
3/16 (4.78)	4.76	2.50	0.55	SFTW2016E-X-ND	8.79	35.17	50.41	250	181.99
1/4 (6.35)	6.35	3.00	0.65	SFTW2014E-X-ND	9.71	38.84	55.66	200	160.78
3/8 (9.52)	9.53	4.50	0.76	SFTW2038E-X-ND	10.77	43.10	61.77	200	178.41
1/2 (12.70)	12.70	6.00	0.76	SFTW2012E-X-ND	12.10	48.41	69.39	200	200.43
<b>SFTW203 Series - Very Flexible Polyolefin</b>									
1/16 (1.59)	1.50	0.50	0.45	SFTW2016K-X-ND	2.28	9.11	13.06	1,000	188.63
1/8 (3.18)	3.00	1.00	0.55	SFTW2018K-X-ND	2.60	10.40	14.91	500	107.67
1/4 (6.35)	6.00	2.00	0.65	SFTW2014K-X-ND	3.95	15.78	22.62	200	65.33
3/8 (9.52)	9.00	3.00	0.75	SFTW2038K-X-ND	4.41	17.63	25.26	200	72.97
1/2 (12.70)	12.00	4.00	0.75	SFTW2012K-X-ND	4.97	19.89	28.51	200	82.34

‡ Indicates size BEFORE shrinking occurs.

Diameter Range Inches (mm)	Relaxed Tube Length Inches (mm)	Digi-Key Part No.	Pricing	
			1	10
<b>8420 - EPDM Cold Shrink Tubes</b>				
0.31 - 0.56 (7.87 - 14.22)	6.00 (152.40)	8423-6-ND	14.26	130.19
0.10 - 0.82 (2.54 - 20.83)	8.00 (203.20)	8424-8-ND	18.28	166.90
0.40 - 0.82 (10.16 - 20.83)	8.00 (203.20)	8425-8-ND	16.02	146.26
0.55 - 1.18 (13.97 - 29.97)	9.00 (228.60)	8426-9-ND	19.08	174.21
0.55 - 1.18 (13.97 - 29.97)	11.00 (279.40)	8426-11-ND	22.86	208.70
0.67 - 1.38 (17.02 - 35.05)	6.00 (152.40)	8427-6-ND	14.42	131.65
0.67 - 1.38 (17.02 - 35.05)	12.00 (304.80)	8427-12-ND	28.48	260.02
0.67 - 1.38 (17.02 - 35.05)	16.00 (406.40)	8427-16-ND	38.04	347.31
0.95 - 1.94 (24.13 - 49.28)	6.00 (152.40)	8428-6-ND	20.36	185.89
0.95 - 1.94 (24.13 - 49.28)	12.00 (304.80)	8428-12-ND	40.58	370.50
0.95 - 1.94 (24.13 - 49.28)	18.00 (457.20)	8428-18-ND	61.04	557.30
1.27 - 2.67 (32.26 - 67.82)	6.00 (152.40)	8429-6-ND	22.26	203.23
1.27 - 2.67 (32.26 - 67.82)	9.00 (228.60)	8429-9-ND	33.32	304.21
1.27 - 2.67 (32.26 - 67.82)	12.00 (304.80)	8429-12-ND	45.64	416.69
1.27 - 2.67 (32.26 - 67.82)	18.00 (457.20)	8429-18-ND	66.74	609.34
1.68 - 3.69 (42.67 - 93.73)	9.00 (228.60)	8430-9-ND	46.04	420.35
1.68 - 3.69 (42.67 - 93.73)	18.00 (457.20)	8430-18-ND	72.76	664.30
<b>8440 - Silicone Cold Shrink Tubes</b>				
0.27 - 0.56 (6.86 - 14.22)	2.00 (50.80)	8443-2-ND	8.70	79.43
0.27 - 0.56 (6.86 - 14.22)	6.50 (165.10)	8443-6-ND	12.08	110.29
0.35 - 0.72 (8.89 - 18.29)	2.50 (63.50)	8445-2.5-ND	9.04	82.54
0.35 - 0.72 (8.89 - 18.29)	7.50 (190.50)	8445-7.5-ND	13.22	120.70
0.48 - 0.95 (12.19 - 24.13)	3.20 (81.28)	8447-3.2-ND	11.08	101.16
0.48 - 0.95 (12.19 - 24.13)	8.00 (203.20)	8447-8-ND	15.92	145.35

## EPS-200 and VFP-876 Series

**EPS-200 Series** • Shrink Temperature: 121°C • Color: Black • Shrink Ratio: 2:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive lining to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. Rated for operation at -55°C - 110°C (-67°F - 230°F). **VFP-876 Series-Very Flexible Polyolefin** • Shrink Temperature: 100°C • Color: Black • Shrink Ratio: 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Diameter± Inch (mm)	Inside Diameter		Nominal Recovered Wall Thick. mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length				
	Expanded Minimum mm	Recovered Maximum mm			4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
<b>EPS-200 Series - Adhesive-lined, Flexible, Polyolefin</b>									
1/8 (3.18)	3.18	1.60	0.69	EPS2018-ND	5.60	9.70	21.45	44.76	72.28
3/16 (4.76)	4.75	2.36	0.69	EPS2316-ND	5.28	9.33	20.29	37.74	—

Tubing Size Diameter± Inches (mm)	Inside Diameter		Nominal Recovered Wall Thick. mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length			
	Minimum Expanded mm	Maximum Recovered mm			4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)
1/4 (6.35)	6.35	3.18	0.76	EPS2014-ND	6.60	11.68	25.40	47.24
3/8 (9.53)	9.52	4.75	0.79	EPS2038-ND	7.44	13.16	28.62	53.23
1/2 (12.70)	12.70	6.35	0.81	EPS2012-ND	8.55	15.12	32.88	61.15
3/4 (19.05)	19.05	9.52	0.94	EPS2034-ND	10.34	17.98	34.84	—
1 (25.40)	25.40	12.70	1.17	EPS2100-ND	15.20	26.44	51.23	—
1-1/2 (38.10)	38.10	19.05	1.24	EPS2112-ND	26.59	46.25	89.61	—
2 (50.80)	50.80	25.40	1.52	EPS2200-ND	37.01	57.37	—	—

Tubing Size Diameter± Inches (mm)	Inside Diameter		Nominal Recovered Wall Thick. mm	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet)				
	Minimum Expanded mm	Maximum Recovered mm			5'	25'	50'	100'	200'
<b>VFP-876 Series - Very Flexible Polyolefin, Self-extinguishing</b>									
3/64 (1.19)	1.17	0.58	0.41	VFP364-X-ND	2.14	9.56	17.12	30.81	—
1/16 (1.59)	1.60	0.79	0.43	VFP116-X-ND	2.18	9.75	17.46	31.43	—
3/32 (2.38)	2.36	1.17	0.51	VFP332-X-ND	2.31	10.30	16.61	26.45	—
1/8 (3.18)	3.18	1.57	0.51	VFP018-X-ND	2.49	11.11	17.91	28.53	—
3/16 (4.76)	4.75	2.36	0.51	VFP316-X-ND	3.03	12.12	17.37	30.70	—
1/4 (6.35)	6.35	3.18	0.64	VFP014-X-ND	3.78	15.13	21.68	38.32	62.63
3/8 (9.53)	9.52	4.75	0.64	VFP038-X-ND	4.22	16.89	24.21	42.79	69.92
1/2 (12.70)	12.70	6.35	0.64	VFP012-X-ND	4.76	19.05	27.31	48.26	78.87
3/4 (19.05)	19.05	9.52	0.76	VFP034-X-ND	6.35	25.00	36.41	64.35	105.17
1 (25.40)	25.40	12.70	0.89	VFP100-X-ND	9.50	38.00	54.46	78.65	—
1-1/2 (38.10)	38.10	19.05	1.02	VFP112-X-ND	17.70	70.81	101.49	146.57	—
2 (50.80)	50.80	25.40	1.14	VFP200-X-ND	24.46	97.85	140.24	202.54	—

‡ Indicates size BEFORE shrinking occurs.

## Colored Heat Shrinkable Tubing



### FP-301 Series

**Available in 7 Colors:** (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow)

**Shrink Temperature:** 121°C • **Shrink Ratio:** 2:1. Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

Tubing Size Diameter± Inches (mm)	Inside Diameter		Nominal Recovered Wall Thick. mm	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet)				
	Minimum Expanded mm	Maximum Recovered mm			5'	25'	50'	100'	200'
<b>FP-301 Series - Flexible Polyolefin, Self-extinguishing, Flame Retardant, Color</b>									
3/64 (1.19)	1.17	0.58	0.41	FP364□-X-ND†	1.81	8.11	14.54	26.17	—
1/16 (1.59)	1.60	0.79	0.43	FP116□-X-ND	1.81	8.10	14.51	26.11	—
3/32 (2.38)	2.36	1.17	0.51	FP332□-X-ND	1.92	8.59	13.83	22.03	—
1/8 (3.18)	3.18	1.57	0.51	FP018□-X-ND	2.03	9.07	14.61	23.27	—
3/16 (4.76)	4.75	2.36	0.51	FP316□-X-ND	2.36	9.46	13.56	23.96	—
1/4 (6.35)	6.35	3.18	0.64	FP014□-X-ND	2.95	11.83	16.94	29.94	53.10
3/8 (9.53)	9.52	4.75	0.64	FP038□-X-ND	3.30	13.19	18.91	33.42	59.27
1/2 (12.70)	12.70	6.35	0.64	FP012□-X-ND	3.97	15.86	22.72	40.16	66.84
3/4 (19.05)	19.05	9.52	0.76	FP034□-X-ND	5.28	21.13	30.27	53.51	89.13
1 (25.40)	25.40	12.70	0.89	FP100□-X-ND	7.90	31.59	45.27	66.59	—
1-1/2 (38.10)	38.10	19.05	1.02	FP112□-X-ND†	12.97	51.87	74.34	124.12	—
2 (50.80)	50.80	25.40	1.14	FP200□-X-ND†	17.92	71.69	102.76	171.54	—

‡ Indicates size BEFORE shrinking occurs. † Not available in green.

**Note:** For complete number, substitute □ with appropriate color (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow) and substitute "X" with length choice.

**FP-CIT-ND Digi-Key® FP-301 Series Kit** One 5 foot tubing of each color in the following series: FP364, FP116,