

3M Heat Shrinkable Tubing



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

MFP 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.) |
| MFP Series - Modified Polyvinylidene Fluoride | | | | | | | | | |
| 3/64 (1.19) | 1.17 | 0.58 | 0.25 | KY364C-ND | 5.77 | 10.00 | 22.12 | 46.16 | 76.93 |
| 1/16 (1.60) | 1.60 | 0.79 | 0.25 | KY116C-ND | 5.92 | 10.26 | 22.70 | 47.37 | 78.94 |
| 3/32 (2.38) | 2.36 | 1.17 | 0.25 | KY332C-ND | 6.33 | 10.98 | 24.27 | 50.66 | 84.43 |
| 1/8 (3.18) | 3.18 | 1.57 | 0.25 | KY018C-ND | 6.85 | 11.87 | 26.26 | 54.81 | 91.34 |
| 3/16 (4.78) | 4.75 | 2.36 | 0.25 | KY316C-ND | 9.65 | 17.07 | 37.12 | 71.26 | — |
| 1/4 (6.35) | 6.35 | 3.18 | 0.30 | KY014C-ND | 11.91 | 21.06 | 45.79 | 87.92 | — |
| 3/8 (9.52) | 9.53 | 4.75 | 0.30 | KY038C-ND | 14.34 | 25.37 | 55.15 | 105.89 | — |
| 1/2 (12.70) | 12.70 | 6.35 | 0.30 | KY012C-ND | 19.03 | 33.09 | 66.18 | — | — |

| 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.) |
| EPS-300 Series - Adhesive-lined, Flexible, Polyolefin | | | | | | | | | | |
| 1/8 (3.18) | 3.18 | 1.02 | 1.02 | 0.51 | EPSS018K-ND | 10.48 | 18.16 | 40.17 | 83.84 | 126.63 |
| 3/16 (4.78) | 4.75 | 1.57 | 1.02 | 0.51 | EPSS316K-ND | 9.96 | 17.61 | 38.29 | 71.22 | — |
| 1/4 (6.35) | 6.35 | 2.03 | 1.02 | 0.51 | EPSS014K-ND | 12.33 | 21.81 | 47.41 | 88.18 | — |
| 3/8 (9.52) | 9.53 | 3.05 | 1.40 | 0.62 | EPSS038K-ND | 13.95 | 24.68 | 53.64 | 99.77 | — |
| 1/2 (12.70) | 12.70 | 4.06 | 1.78 | 0.76 | EPSS012K-ND | 16.30 | 28.83 | 62.68 | 116.59 | — |

| 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 |
| SFTW202 GYS Series - Very Flexible Polyolefin | | | | | | | | | |
| 1/8 (3.18) | 3.18 | 1.50 | 0.51 | SFTW2018E-X-ND | 6.66 | 26.63 | 38.17 | 500 | 275.65 |
| 3/16 (4.78) | 4.76 | 2.50 | 0.55 | SFTW2016E-X-ND | 9.23 | 36.92 | 52.92 | 250 | 191.07 |
| 1/4 (6.35) | 6.35 | 3.00 | 0.65 | SFTW2014E-X-ND | 10.19 | 40.78 | 58.45 | 200 | 168.82 |
| 3/8 (9.52) | 9.53 | 4.50 | 0.76 | SFTW2038E-X-ND | 11.31 | 45.25 | 64.85 | 200 | 187.32 |
| 1/2 (12.70) | 12.70 | 6.00 | 0.76 | SFTW2012E-X-ND | 12.71 | 50.84 | 72.86 | 200 | 210.46 |
| SFTW203 Series - Very Flexible Polyolefin | | | | | | | | | |
| 1/16 (1.59) | 1.50 | 0.50 | 0.45 | SFTW2116K-X-ND | 2.39 | 9.57 | 13.72 | 1,000 | 198.10 |
| 1/8 (3.18) | 3.00 | 1.00 | 0.55 | SFTW2018K-X-ND | 2.73 | 10.92 | 15.65 | 500 | 113.02 |
| 1/4 (6.35) | 6.00 | 2.00 | 0.65 | SFTW2014K-X-ND | 4.14 | 16.57 | 23.75 | 200 | 68.59 |
| 3/8 (9.52) | 9.00 | 3.00 | 0.75 | SFTW2038K-X-ND | 4.63 | 18.51 | 26.53 | 200 | 76.63 |
| 1/2 (12.70) | 12.00 | 4.00 | 0.75 | SFTW2012K-X-ND | 5.22 | 20.89 | 29.94 | 200 | 86.47 |

‡ Indicates size BEFORE shrinking occurs.

| Diameter Range Inches (mm) | Relaxed Tube Length Inches (mm) | Digi-Key Part No. | Pricing | |
|--|---------------------------------|-------------------|---------|--------|
| | | | 1 | 10 |
| 8420 - EPDM Cold Shrink Tubes | | | | |
| 0.31 - 0.56 (7.87 - 14.22) | 6.00 (152.40) | 8423-6-ND | 14.68 | 134.03 |
| 0.10 - 0.82 (2.54 - 20.83) | 8.00 (203.20) | 8424-8-ND | 18.82 | 171.83 |
| 0.40 - 0.82 (10.16 - 20.83) | 8.00 (203.20) | 8425-8-ND | 16.50 | 150.65 |
| 0.55 - 1.18 (13.97 - 29.97) | 9.00 (228.60) | 8426-9-ND | 19.66 | 179.50 |
| 0.55 - 1.18 (13.97 - 29.97) | 11.00 (279.40) | 8426-11-ND | 23.54 | 212.92 |
| 0.67 - 1.38 (17.02 - 35.05) | 6.00 (152.40) | 8427-6-ND | 14.86 | 135.67 |
| 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 | 39.18 | 357.71 |
| 0.95 - 1.94 (24.13 - 49.28) | 6.00 (152.40) | 8428-6-ND | 20.98 | 191.55 |
| 0.95 - 1.94 (24.13 - 49.28) | 12.00 (304.80) | 8428-12-ND | 41.80 | 381.63 |
| 0.95 - 1.94 (24.13 - 49.28) | 18.00 (457.20) | 8428-18-ND | 62.88 | 574.09 |
| 1.27 - 2.67 (32.26 - 67.82) | 6.00 (152.40) | 8429-6-ND | 22.92 | 209.26 |
| 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 | 68.74 | 627.60 |
| 1.68 - 3.69 (42.67 - 93.73) | 9.00 (228.60) | 8430-9-ND | 47.42 | 432.94 |
| 1.68 - 3.69 (42.67 - 93.73) | 18.00 (457.20) | 8430-18-ND | 72.76 | 664.30 |
| 8440 - Silicone Cold Shrink Tubes | | | | |
| 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) | 8443-6-5-ND | 12.44 | 113.58 |
| 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 | 16.40 | 149.73 |

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.) |
| EPS-200 Series - Adhesive-lined, Flexible, Polyolefin | | | | | | | | | |
| 1/8 (3.18) | 3.18 | 1.60 | 0.69 | EPS2018-ND | 5.88 | 10.18 | 22.52 | 47.00 | 75.89 |
| 3/16 (4.76) | 4.75 | 2.36 | 0.69 | EPS2316-ND | 5.54 | 9.80 | 21.31 | 39.63 | — |

| 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 | 6.93 | 12.27 | 26.67 | 49.60 |
| 3/8 (9.53) | 9.52 | 4.75 | 0.79 | EPS2038-ND | 7.81 | 13.82 | 30.05 | 55.89 |
| 1/2 (12.70) | 12.70 | 6.35 | 0.81 | EPS2012-ND | 8.97 | 15.88 | 34.52 | 64.20 |
| 3/4 (19.05) | 19.05 | 9.52 | 0.94 | EPS2034-ND | 10.86 | 18.88 | 36.58 | — |
| 1 (25.40) | 25.40 | 12.70 | 1.17 | EPS2100-ND | 15.96 | 27.76 | 53.79 | — |
| 1-1/2 (38.10) | 38.10 | 19.05 | 1.24 | EPS2112-ND | 27.92 | 48.56 | 94.09 | — |
| 2 (50.80) | 50.80 | 25.40 | 1.52 | EPS2200-ND | 38.86 | 60.23 | — | — |

| 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' |
| VFP-876 Series - Very Flexible Polyolefin, Self-extinguishing | | | | | | | | | |
| 3/64 (1.19) | 1.17 | 0.58 | 0.41 | VFP364-X-ND | 2.25 | 10.03 | 17.97 | 32.35 | — |
| 1/16 (1.59) | 1.60 | 0.79 | 0.43 | VFP116-X-ND | 2.29 | 10.23 | 18.33 | 32.99 | — |
| 3/32 (2.38) | 2.36 | 1.17 | 0.51 | VFP332-X-ND | 2.42 | 10.82 | 17.44 | 27.78 | — |
| 1/8 (3.18) | 3.18 | 1.57 | 0.51 | VFP018-X-ND | 2.61 | 11.67 | 18.81 | 29.95 | — |
| 3/16 (4.76) | 4.75 | 2.36 | 0.51 | VFP316-X-ND | 3.18 | 12.73 | 18.24 | 32.24 | — |
| 1/4 (6.35) | 6.35 | 3.18 | 0.64 | VFP014-X-ND | 3.97 | 15.89 | 22.77 | 40.24 | 65.76 |
| 3/8 (9.53) | 9.52 | 4.75 | 0.64 | VFP038-X-ND | 4.43 | 17.74 | 25.42 | 44.94 | 73.43 |
| 1/2 (12.70) | 12.70 | 6.35 | 0.64 | VFP012-X-ND | 5.00 | 20.00 | 28.67 | 50.67 | 82.81 |
| 3/4 (19.05) | 19.05 | 9.52 | 0.76 | VFP034-X-ND | 6.67 | 26.67 | 38.23 | 67.56 | 110.41 |
| 1 (25.40) | 25.40 | 12.70 | 0.89 | VFP100-X-ND | 9.97 | 39.89 | 57.18 | 78.65 | — |
| 1-1/2 (38.10) | 38.10 | 19.05 | 1.02 | VFP112-X-ND | 18.59 | 74.35 | 106.56 | 146.57 | — |
| 2 (50.80) | 50.80 | 25.40 | 1.14 | VFP200-X-ND | 25.68 | 102.74 | 147.25 | 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' |
| FP-301 Series - Flexible Polyolefin, Self-extinguishing, Flame Retardant, Color | | | | | | | | | |
| 3/64 (1.19) | 1.17 | 0.58 | 0.41 | FP364□-X-ND† | 1.90 | 8.51 | 15.26 | 27.46 | — |
| 1/16 (1.59) | 1.60 | 0.79 | 0.43 | FP116□-X-ND | 1.90 | 8.51 | 15.23 | 27.41 | — |
| 3/32 (2.38) | 2.36 | 1.17 | 0.51 | FP332□-X-ND | 2.02 | 9.01 | 14.52 | 23.13 | — |
| 1/8 (3.18) | 3.18 | 1.57 | 0.51 | FP018□-X-ND | 2.13 | 9.52 | 15.33 | 24.43 | — |
| 3/16 (4.76) | 4.75 | 2.36 | 0.51 | FP316□-X-ND | 2.48 | 9.94 | 14.24 | 25.17 | — |
| 1/4 (6.35) | 6.35 | 3.18 | 0.64 | FP014□-X-ND | 3.10 | 12.42 | 17.79 | 31.44 | 55.77 |
| 3/8 (9.53) | 9.52 | 4.75 | 0.64 | FP038□-X-ND | 3.47 | 13.85 | 19.86 | 35.10 | 62.25 |
| 1/2 (12.70) | 12.70 | 6.35 | 0.64 | FP012□-X-ND | 4.17 | 16.65 | 23.86 | 42.17 | 70.18 |
| 3/4 (19.05) | 19.05 | 9.52 | 0.76 | FP034□-X-ND | 5.54 | 22.19 | 31.79 | 56.19 | 93.59 |
| 1 (25.40) | 25.40 | 12.70 | 0.89 | FP100□-X-ND | 8.29 | 33.17 | 47.53 | 66.59 | — |
| 1-1/2 (38.10) | 38.10 | 19.05 | 1.02 | FP112□-X-ND† | 13.61 | 54.46 | 78.06 | 124.12 | — |
| 2 (50.80) | 50.80 | 25.40 | 1.14 | FP200□-X-ND† | 18.82 | 75.28 | 107.89 | 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