

alpha FIT® Heat Shrink Fabric

Characteristics:

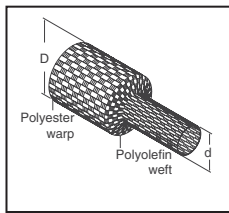
• Operating Temperature: -40°C – 125°C • Shrink Ratio: Approximately 2 to 1 at 135°C • Color Description: All standard packages: Black

Physical Properties:

• Longitudinal Shrinkage: Up to 20% at 2:1 shrink ratio • Flammability: Meets MVSS 302 horizontal burn test

Chemical Properties:

• Corrosive Effect: non-corrosive • Fungus Resistance: No growth • Chemical Resistance: Antifreeze (50% ethylene glycol), Engine Oil, Mineral Hydraulic Fluid, Detergent (1% teepol), Brake Fluid (DOT 4), Unleaded Gasoline, Diesel Fuel, Battery Acid



| Minimum Supplied I.D. Inch (mm) (D) | Maximum Recovered I.D. Inch (mm) (d) | Nom. Recovered Wall Thickness Inch (mm) | Digi-Key Part No. | Spool Size (Feet) | Price Per Spool | Alpha Part No. |
|-------------------------------------|--------------------------------------|---|-------------------|-------------------|-----------------|----------------|
| 0.47 (12.0) | 0.24 (6.0) | 0.039 (0.99) | A04718-50-ND◆ | 50 | 92.86 | FITFAB-1 BK007 |
| 0.47 (12.0) | 0.24 (6.0) | 0.039 (0.99) | A04718-200-ND◆ | 200 | 224.01 | FITFAB-1 BK004 |
| 0.79 (20.0) | 0.39 (10.0) | 0.039 (0.99) | A07928-50-ND◆ | 50 | 110.92 | FITFAB-2 BK007 |
| 0.79 (20.0) | 0.39 (10.0) | 0.039 (0.99) | A07928-200-ND◆ | 200 | 265.88 | FITFAB-2 BK004 |
| 1.18 (30.0) | 0.59 (15.0) | 0.039 (0.99) | A11838-50-ND◆ | 50 | 135.09 | FITFAB-3 BK007 |
| 1.18 (30.0) | 0.59 (15.0) | 0.039 (0.99) | A11838-200-ND◆ | 200 | 324.02 | FITFAB-3 BK004 |
| 1.57 (40.0) | 0.79 (20.0) | 0.039 (0.99) | A15748-50-ND◆ | 50 | 162.86 | FITFAB-4 BK007 |
| 1.57 (40.0) | 0.79 (20.0) | 0.039 (0.99) | A15748-200-ND | 200 | 328.97 | FITFAB-4 BK004 |
| 1.97 (50.0) | 0.98 (25.0) | 0.039 (0.99) | A19758-25-ND | 25 | 100.05 | FITFAB-5 BK008 |
| 1.97 (50.0) | 0.98 (25.0) | 0.039 (0.99) | A19758-100-ND | 100 | 239.95 | FITFAB-5 BK005 |
| 2.36 (60.0) | 1.18 (30.0) | 0.039 (0.99) | A23668-25-ND | 25 | 108.79 | FITFAB-6 BK008 |
| 2.36 (60.0) | 1.18 (30.0) | 0.039 (0.99) | A23668-100-ND | 100 | 261.47 | FITFAB-6 BK005 |
| 2.76 (70.0) | 1.38 (35.0) | 0.039 (0.99) | A27678-25-ND◆ | 25 | 148.73 | FITFAB-7 BK008 |
| 2.76 (70.0) | 1.38 (35.0) | 0.039 (0.99) | A27678-100-ND◆ | 100 | 300.22 | FITFAB-7 BK005 |

◆ RoHS Compliant

MASTER APPLIANCE MASTERMITE® Heat Gun

Quiet running. Comes standard with bench stand, heat shrink attachment, and interchangeable heating element. High impact plastic housing, lightweight, draws only 4.5 amps maximum, continuous duty brushless motor, 120V, 60Hz, 4.5A.

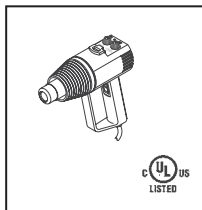
| | | |
|-----------|------------------------------|--------|
| MA1017-ND | Heat Gun, ESD, 800°F (427°C) | 102.37 |
| MA1006-ND | Heat Gun, 650°F (343°C) | 63.89 |
| MA1007-ND | Replacement Heat Element | 20.04 |



ProHeat® Heat Guns

Features:

- Compact, light-weight, easy-to-use design, professional-quality heat guns
- 120V
- Variable temperature (some models)
- Variable airflow (some models)
- Special electronic closed loop temperature control system maintains constant temperature when varying airflow or using specialty attachments (some models)
- Use to heat temperature sensitive materials
- Base provides built-in stand for hands free use
- Made in the USA



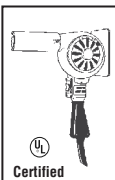
| Description | Digi-Key Part No. | Price Each | Master Part No. |
|---|-------------------|------------|-----------------|
| Proheat | | | |
| Gun, 430° – 840°F (221°C – 449°C), 15 CFM | MA1009-ND | 64.61 | PH-1100 |
| VariTemp™ | | | |
| Gun System, 130° – 840°F (54°C – 449°C), 15 CFM | MA1012-ND‡ | 115.43 | PH-1200-1 |
| Gun Kit, 130° – 840°F (54°C – 449°C), 15 CFM | MA1013-ND‡ | 148.10 | PH-1200-K |
| VariAir™ | | | |
| Gun System, 130° – 900°F (54°C – 482°C), 6 – 15 CFM | MA1015-ND‡ | 140.84 | PH-1300-1 |
| Gun Kit, 130° – 900°F (54°C – 482°C), 6 – 15 CFM | MA1016-ND‡ | 173.51 | PH-1300-K |

† Kit includes: Heat gun, attachments and storage case ‡ System includes: Heat gun, stand and attachment

Heat Gun

Features universal motor, high air velocity, volume and temperatures. Rugged die-cast aluminum housing with externally replaceable carbon brushes, 3 wire oil resistant cord set, and reinforced ceramic heating element, temperature: 200° – 1000°F (93.3° – 538°C), 120VAC.

| Description | Digi-Key Part No. | Price Each |
|---|-------------------|------------|
| Heat Gun, 200° – 300°F (93.3° – 149°C), 600W | MA1019-ND | 86.39 |
| Heat Gun, 300° – 500°F (149° – 260°C), 1440W | MA1018-ND | 86.39 |
| Heat Gun, 500° – 750°F (260° – 399°C), 1680W | MA1001-ND | 86.39 |
| Heat Gun, 750° – 1000°F (399° – 538°C), 1740W | MA1020-ND | 86.39 |
| Heat Shrink Attachment - Shrink Tubing from 3/4" to 2" (19 - 51mm) O.D. | MA1002-ND | 9.40 |
| Heat Reducer Attachment - 3/4" (19mm) | MA1004-ND | 9.40 |
| Replacement Heat Element | MA1005-ND | 16.28 |



ECOHEAT™ Heat Gun and Kit

Features:

- Two fan speeds • Two heat settings: 500°F and 1,000°F
 - Resettable thermostat • Thermoplastic housing • Built-in stand
- Kit Contains:**
7/8" air reducer attachment, shrink tubing attachment, 1-15/16" and 3-1/8" spreader attachments, storage and carrying case.

MA1008-ND 42.83



Cordless Soldering Irons

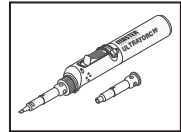
UT-40

Ultratorch UT-40SI: Ultratorch soldering tips feature Ultratip™ Technology, the long lasting, oxygen-free, copper based, iron and chrome plated tip with a built-in catalyst, pre-tinned with lead-free solder. UT-40SI is a soldering iron and flameless heat tool. Convenient slide switch ignition system for quick ignition. Adjustable temperature lever for temperatures up to 1200°F, equivalent to a 20 – 80 watt soldering iron.

MA1021-ND 38.94

Ultratorch UT-40SI Kit: Kit contains unit, solder tip, heat tip, hot knife tip, shrink attachment, cap, sponge, and stand packed in a rugged plastic case.

MA1023-ND 63.56



UT-100

Ultratorch UT-100SI: Standard with soldering tip, heat tip, spanner wrench, open end wrench, shrink attachment and protective cap. Built in fuel filter for constant fuel ignition. Adjustable temperature up to 1200°F. Built in window indicates fuel level. Dual function soldering iron and heat tool.

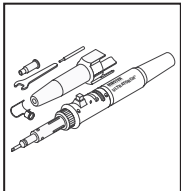
MA1024-ND 79.13

Ultratorch UT-100SIKIT Kit: Kit contains unit, solder tip, heat tip, shrink attachment, spanner and open end wrench, sponge and stand packed in a metal storage/carrying case.

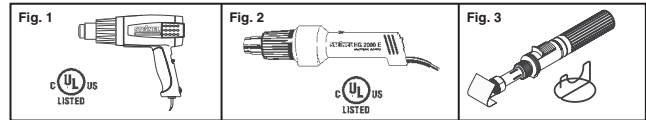
MA1022-ND 87.12

Ultratorch UT-100SI-TC Kit: Kit contains UT-100SI Ultratorch®, three Ultratip® soldering tips, a hot air tip, heat shrink reflector, hot knife, wire cutter, needle nose pliers, coil of 60/40 solder, sponge and cap packed in a rugged plastic carrying case.

MA1025-ND 129.95



STEINEL® Heat Guns



SDL1700-ND: • Dual Temperature: Low 600°F, High 950°F • Rapid cool down • 1300W • 120VAC
SDL1450-ND: • Variable Temperature up to 1050°F • 3-Stage Airflow • 1400W • 120VAC
SDL1500-ND, SDL1550-ND: • Temp.: 120°F – 1200°F • Airflow 3.6 – 17.6 CFM • Programmable • 1600W • 120VAC
SDL1600-ND: • Temperature: 120°F – 1100°F • Airflow 3.6/10.6/17.6 CFM • 1500W • 120VAC
SDL1650-ND: • Temperature: 120°F/750°F/1100°F • Airflow 3.6/10/15.9 CFM • 1200W • 120VAC
SDL1250-ND: • Temperature: 212°F – 1100°F • Airflow 14.3 CFM • 1500W • 120VAC
SDL1950-ND: • Temperature: 1400°F – 750°C • Rapid heat-up • Up to 120 minute continuous use • Removable deflector for shrink tube installation

| Fig. | Description | Digi-Key Part No. | Price Each | Steinel Part No. |
|--------------------------------------|---|-------------------|------------|------------------|
| 1 | Heat Gun Dual Temperature, UltraHEAT™ | SDL1700-ND | 31.09 | SV800 |
| | Heat Gun Variable Temperature, UltraHEAT™ II | SDL1750-ND | 43.96 | SV803 |
| | Heat Gun Kit with Case and Two Nozzles | SDL1450-ND | 56.09 | SV803K |
| | Heat Gun Programmable with LCD Display, ESD Safe | SDL1500-ND | 204.76 | HG2510ESD |
| | Heat Gun Programmable with LCD Display | SDL1550-ND | 196.86 | HG2310LCD |
| | Heat Gun Variable Temperature | SDL1600-ND | 165.24 | HL1910E |
| Heat Gun 3-Stage Air and Temperature | SDL1650-ND | 98.04 | HL1810S | |
| 2 | Variable Ergonomic Heat Gun | SDL1250-ND | 149.43 | HG2000E |
| — | Reducer-Reflector Nozzle 3/8" (9mm) | SDL1303-ND | 18.13 | SDL1303 |
| | Reducer Nozzle Attachment 3/8" (9mm) | SDL1301-ND | 10.72 | SDL1301 |
| | Reducer Nozzle Attachment 5/8" (14mm) | SDL1302-ND | 10.72 | SDL1302 |
| | Reflector Nozzle 3" (75mm) | SDL1304-ND | 15.09 | SDL1304 |
| | Reflector Nozzle 5/8" (14mm) (does not fit SDL1100) | SDL1305-ND | 12.32 | SDL1305 |
| 3 | Flameless Heat Tool with Reflector Nozzle | SDL1950-ND | 38.45 | TS 310 |

Cordless Soldering Irons

These are the ultimate cordless heat tools for professionals seeking to combine performance, versatility and great value.

Features: • Multi-function tools may be used as soldering irons • Convenient portable torches • Safe and simple to use under most conditions

600 Series

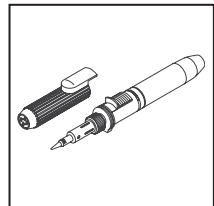
Specifications: • Soldering Iron Tip: 480°F – 1000°F/250°C – 550°C • Torch: 2500°F/1300°C • Accessories included: Soldering Tip and Protective Cap

ThermaSolder™ 600: TS 600, High capacity soldering iron with auto ignition and powerful 30W – 125W output. Refillable 38ml tank for 200 minutes of continuous use.

SDL1800-ND 46.42

ThermaSolder 600 Kit Includes: TS 600K Soldering Iron, Heat Blower Tip, Reflector Tip, Hot Knife Tip, Chisel Tip, Soldering Tip, Spare Orifice, Solder with Dispenser, Tip Cleaning Sponge, Protective Cap and Case.

SDL1850-ND 71.82

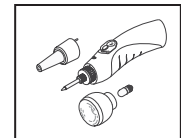


350 Series

Specifications: • Soldering Iron Tip: 930°F/500°C maximum • 6W maximum • Power Source: 3, 1.5V Alkaline AA Batteries • Accessories included: Flashlight Attachment

ThermaSolder 350: TS 350, Anodized steel windproof mini torch with waterproof automatic ignition system. Adjustable flame, protective auto-flip cover and self standing base for highly versatile use. Includes convenient key chain.

SDL1900-ND 21.02



Free shipping on orders over £50! All prices are in British pound sterling and include duties.

2134 (UK091)

uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783

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 | 4.19 | 7.26 | 16.06 | 33.51 | 55.85 |
| 1/16 (1.60) | 1.60 | 0.79 | 0.25 | KY116C-ND | 4.30 | 7.45 | 16.48 | 34.39 | 57.31 |
| 3/32 (2.38) | 2.36 | 1.17 | 0.25 | KY332C-ND | 4.60 | 7.97 | 17.62 | 36.78 | 61.30 |
| 1/8 (3.18) | 3.18 | 1.57 | 0.25 | KY018C-ND | 4.97 | 8.62 | 19.06 | 39.79 | 66.31 |
| 3/16 (4.78) | 4.75 | 2.36 | 0.25 | KY316C-ND | 7.01 | 12.39 | 26.95 | 51.73 | — |
| 1/4 (6.35) | 6.35 | 3.18 | 0.30 | KY014C-ND | 8.65 | 15.29 | 33.24 | 63.83 | — |
| 3/8 (9.52) | 9.53 | 4.75 | 0.30 | KY038C-ND | 10.41 | 18.42 | 40.04 | 76.88 | — |
| 1/2 (12.70) | 12.70 | 6.35 | 0.30 | KY012C-ND | 13.82 | 24.02 | 48.05 | — | — |

| 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 | EPS3018K-ND | 7.61 | 13.18 | 29.16 | 60.87 | 91.93 |
| 3/16 (4.78) | 4.75 | 1.57 | 1.02 | 0.51 | EPS3316K-ND | 7.23 | 12.78 | 27.80 | 51.71 | — |
| 1/4 (6.35) | 6.35 | 2.03 | 1.02 | 0.51 | EPS3014K-ND | 8.95 | 15.83 | 34.42 | 64.02 | — |
| 3/8 (9.52) | 9.53 | 3.05 | 1.40 | 0.62 | EPS3038K-ND | 10.13 | 17.92 | 38.94 | 72.43 | — |
| 1/2 (12.70) | 12.70 | 4.06 | 1.78 | 0.76 | EPS3012K-ND | 11.83 | 20.93 | 45.51 | 84.64 | — |

| 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 | 4.84 | 19.33 | 27.71 | 500 | 200.12 |
| 1/4 (6.35) | 6.35 | 3.00 | 0.65 | SFTW2014E-X-ND | 7.40 | 29.61 | 42.43 | 200 | 122.56 |
| 3/8 (9.52) | 9.53 | 4.50 | 0.76 | SFTW2038E-X-ND | 8.21 | 32.85 | 47.08 | 200 | 135.99 |
| 1/2 (12.70) | 12.70 | 6.00 | 0.76 | SFTW2012E-X-ND | 9.23 | 36.91 | 52.90 | 200 | 152.79 |
| SFTW203 Series - Very Flexible Polyolefin | | | | | | | | | |
| 1/16 (1.59) | 1.50 | 0.50 | 0.45 | SFTW2116K-X-ND | 1.74 | 6.95 | 9.96 | 1,000 | 143.82 |
| 1/8 (3.18) | 3.00 | 1.00 | 0.55 | SFTW2018K-X-ND | 1.98 | 7.93 | 11.36 | 500 | 82.05 |
| 1/4 (6.35) | 6.00 | 2.00 | 0.65 | SFTW2014K-X-ND | 3.01 | 12.03 | 17.24 | 200 | 49.80 |
| 3/8 (9.52) | 9.00 | 3.00 | 0.75 | SFTW2038K-X-ND | 3.36 | 13.44 | 19.26 | 200 | 55.63 |
| 1/2 (12.70) | 12.00 | 4.00 | 0.75 | SFTW2012K-X-ND | 3.79 | 15.17 | 21.74 | 200 | 62.78 |

‡ Indicates size BEFORE shrinking occurs.

| Diameter Range Inches (mm) | Relaxed Tube Length Inches (mm) | Digi-Key Part No. | Pricing |
|--|---------------------------------|-------------------|--------------|
| 8420 - EPDM Cold Shrink Tubes | | | |
| 0.31 - 0.56 (7.87 - 14.22) | 6.00 (152.40) | 8423-6-ND | 10.66 97.31 |
| 0.10 - 0.82 (2.54 - 20.83) | 8.00 (203.20) | 8424-8-ND | 13.66 124.75 |
| 0.40 - 0.82 (10.16 - 20.83) | 8.00 (203.20) | 8425-8-ND | 11.98 109.37 |
| 0.55 - 1.18 (13.97 - 29.97) | 9.00 (228.60) | 8426-9-ND | 14.27 130.32 |
| 0.55 - 1.18 (13.97 - 29.97) | 11.00 (279.40) | 8426-11-ND | 17.09 156.03 |
| 0.67 - 1.38 (17.02 - 35.05) | 6.00 (152.40) | 8427-6-ND | 10.79 98.50 |
| 0.67 - 1.38 (17.02 - 35.05) | 12.00 (304.80) | 8427-12-ND | 20.68 188.77 |
| 0.67 - 1.38 (17.02 - 35.05) | 16.00 (406.40) | 8427-16-ND | 28.44 259.70 |
| 0.95 - 1.94 (24.13 - 49.28) | 6.00 (152.40) | 8428-6-ND | 15.23 139.07 |
| 0.95 - 1.94 (24.13 - 49.28) | 12.00 (304.80) | 8428-12-ND | 30.35 277.06 |
| 0.95 - 1.94 (24.13 - 49.28) | 18.00 (457.20) | 8428-18-ND | 45.65 416.79 |
| 1.27 - 2.67 (32.26 - 67.82) | 6.00 (152.40) | 8429-6-ND | 16.64 151.92 |
| 1.27 - 2.67 (32.26 - 67.82) | 9.00 (228.60) | 8429-9-ND | 24.19 220.86 |
| 1.27 - 2.67 (32.26 - 67.82) | 12.00 (304.80) | 8429-12-ND | 33.13 302.52 |
| 1.27 - 2.67 (32.26 - 67.82) | 18.00 (457.20) | 8429-18-ND | 49.91 455.64 |
| 1.68 - 3.69 (42.67 - 93.73) | 9.00 (228.60) | 8430-9-ND | 34.43 314.31 |
| 1.68 - 3.69 (42.67 - 93.73) | 18.00 (457.20) | 8430-18-ND | 52.82 482.28 |
| 8440 - Silicone Cold Shrink Tubes | | | |
| 0.27 - 0.56 (6.86 - 14.22) | 2.00 (50.80) | 8443-2-ND | 6.32 57.67 |
| 0.27 - 0.56 (6.86 - 14.22) | 6.50 (165.10) | 8443-6.5-ND | 9.03 82.46 |
| 0.35 - 0.72 (8.89 - 18.29) | 2.50 (63.50) | 8445-2.5-ND | 6.56 59.92 |
| 0.35 - 0.72 (8.89 - 18.29) | 7.50 (190.50) | 8445-7.5-ND | 9.60 87.63 |
| 0.48 - 0.95 (12.19 - 24.13) | 3.20 (81.28) | 8447-3.2-ND | 8.04 73.44 |
| 0.48 - 0.95 (12.19 - 24.13) | 8.00 (203.20) | 8447-8-ND | 11.91 108.70 |

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 | 4.27 | 7.39 | 16.35 | 34.12 | 55.10 |
| 3/16 (4.76) | 4.75 | 2.36 | 0.69 | EPS2316-ND | 4.02 | 7.11 | 15.47 | 28.77 | — |

| 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 | 5.03 | 8.91 | 19.36 | 36.01 |
| 3/8 (9.53) | 9.52 | 4.75 | 0.79 | EPS2038-ND | 5.67 | 10.03 | 21.82 | 40.58 |
| 1/2 (12.70) | 12.70 | 6.35 | 0.81 | EPS2012-ND | 6.51 | 11.53 | 25.06 | 46.61 |
| 3/4 (19.05) | 19.05 | 9.52 | 0.94 | EPS2034-ND | 7.88 | 13.71 | 26.56 | — |
| 1 (25.40) | 25.40 | 12.70 | 1.17 | EPS2100-ND | 11.59 | 20.15 | 39.05 | — |
| 1-1/2 (38.10) | 38.10 | 19.05 | 1.24 | EPS2112-ND | 20.27 | 35.25 | 68.31 | — |
| 2 (50.80) | 50.80 | 25.40 | 1.52 | EPS2200-ND | 28.21 | 43.73 | — | — |

| 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) Price Per Length | | | | |
|--|---------------------|----------------------|----------------------------------|-------------------|--|-------|--------|--------|-------|
| | 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 | 1.63 | 7.28 | 13.05 | 23.49 | — |
| 1/16 (1.59) | 1.60 | 0.79 | 0.43 | VFP116-X-ND | 1.66 | 7.43 | 13.31 | 23.95 | — |
| 3/32 (2.38) | 2.36 | 1.17 | 0.51 | VFP332-X-ND | 1.76 | 7.86 | 12.66 | 20.17 | — |
| 1/8 (3.18) | 3.18 | 1.57 | 0.51 | VFP018-X-ND | 1.89 | 8.47 | 13.66 | 21.74 | — |
| 3/16 (4.76) | 4.75 | 2.36 | 0.51 | VFP316-X-ND | 2.31 | 9.24 | 13.24 | 23.41 | — |
| 1/4 (6.35) | 6.35 | 3.18 | 0.64 | VFP014-X-ND | 2.88 | 11.54 | 16.53 | 29.21 | 47.74 |
| 3/8 (9.53) | 9.52 | 4.75 | 0.64 | VFP038-X-ND | 3.22 | 12.88 | 18.45 | 32.63 | 53.31 |
| 1/2 (12.70) | 12.70 | 6.35 | 0.64 | VFP012-X-ND | 3.63 | 14.52 | 20.81 | 36.79 | 60.12 |
| 3/4 (19.05) | 19.05 | 9.52 | 0.76 | VFP034-X-ND | 4.84 | 19.36 | 27.75 | 49.05 | 80.16 |
| 1 (25.40) | 25.40 | 12.70 | 0.89 | VFP100-X-ND | 7.24 | 28.96 | 41.51 | 57.10 | — |
| 1-1/2 (38.10) | 38.10 | 19.05 | 1.02 | VFP112-X-ND | 13.50 | 53.98 | 77.36 | 106.41 | — |
| 2 (50.80) | 50.80 | 25.40 | 1.14 | VFP200-X-ND | 18.64 | 74.59 | 106.90 | 147.04 | — |

‡ 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) Price Per Length | | | | |
|--|---------------------|----------------------|----------------------------------|-------------------|--|-------|-------|--------|---------|
| | 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† | 1.38 | 6.18 | 11.08 | 19.94 | — 39.69 |
| 1/16 (1.59) | 1.60 | 0.79 | 0.43 | FP116□-X-ND | 1.38 | 6.18 | 11.06 | 19.90 | — 39.61 |
| 3/32 (2.38) | 2.36 | 1.17 | 0.51 | FP332□-X-ND | 1.47 | 6.54 | 10.54 | 16.79 | — 37.10 |
| 1/8 (3.18) | 3.18 | 1.57 | 0.51 | FP018□-X-ND | 1.55 | 6.91 | 11.13 | 17.74 | — 39.17 |
| 3/16 (4.76) | 4.75 | 2.36 | 0.51 | FP316□-X-ND | 1.80 | 7.22 | 10.34 | 18.27 | — 40.48 |
| 1/4 (6.35) | 6.35 | 3.18 | 0.64 | FP014□-X-ND | 2.25 | 9.02 | 12.92 | 22.83 | — 40.49 |
| 3/8 (9.53) | 9.52 | 4.75 | 0.64 | FP038□-X-ND | 2.52 | 10.06 | 14.42 | 25.48 | — 45.19 |
| 1/2 (12.70) | 12.70 | 6.35 | 0.64 | FP012□-X-ND | 3.03 | 12.09 | 17.32 | 30.62 | — 50.95 |
| 3/4 (19.05) | 19.05 | 9.52 | 0.76 | FP034□-X-ND | 4.02 | 16.11 | 23.08 | 40.79 | — 67.95 |
| 1 (25.40) | 25.40 | 12.70 | 0.89 | FP100□-X-ND | 6.02 | 24.08 | 34.51 | 48.34 | — |
| 1-1/2 (38.10) | 38.10 | 19.05 | 1.02 | FP112□-X-ND† | 9.88 | 39.54 | 56.67 | 90.11 | — |
| 2 (50.80) | 50.80 | 25.40 | 1.14 | FP200□-X-ND† | 13.66 | 54.65 | 78.33 | 124.54 | — |

‡ 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, FP332, FP018, FP316, FP014, FP038 and FP012 (55 pieces total of 8 sizes)..... **52.24**

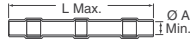
Heat Shrink Pre-cut Lengths and Kits



FP-301 Series-Flexible Polyolefin • Shrink Temperature: 121°C • Color: Black • 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.

CWT-900X Series – Solder Sleeve Wire Splices

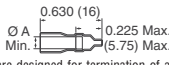
Materials: • **Insulation Sleeve:** Heat-shrinkable, radiation cross-linked modified polyolefin. Transparent clear. • **Solder Preform with Flux:** Solder: Type CD18 per ANSI-J-STD-006 Flux: Type ROM1 per ANSI-J-STD-004 Application: These controlled soldering devices are designed to splice tin-plated or bare copper stranded wires rated for at least 85°C. **Temperature Range:** -55°C ~ 125°C



| AWG (Color) | Dimensions - Inches (mm) | | Digi-Key Part No. | Pricing | | | Raychem Part No. |
|---------------|--------------------------|--------------------|-------------------|---------|-------|-------|------------------|
| | Diameter A Minimum | Length - L Maximum | | 10 | 50 | 100 | |
| 24-20 (Clear) | .065 (1.7) | 1.025 (26.0) | CWT9001-ND | 7.72 | 34.57 | 56.95 | CWT-9001 |
| 18-16 (Red) | .105 (2.7) | 1.655 (42.0) | CWT9002-ND | 11.38 | 50.94 | 83.90 | CWT-9002 |
| 16-12 (Blue) | .180 (4.5) | 1.655 (42.0) | CWT9003-ND | 8.90 | 39.82 | 65.59 | CWT-9003 |

CWT-150X Series – Wire Termination to Pin, Post or Tab

Materials: • **Insulation Sleeve:** Heat-shrinkable, transparent clear, radiation cross-linked modified polyolefin. • **Solder Preform with Flux:** Solder: Type Cd18 per ANSI-J-STD-006 Flux: Type ROM1 per ANSI-J-STD-004 Application: These controlled soldering devices are designed for termination of a wire to the lead of electrical component or to the terminal of a connector. **Temperature Range:** -55°C ~ 125°C

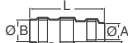


| Diameter A Minimum | Diameter B Minimum | Length - L Maximum | Digi-Key Part No. | Pricing | | | Raychem Part No. |
|--------------------|--------------------|--------------------|-------------------|---------|-------|-------|------------------|
| | | | | 10 | 50 | 100 | |
| .060 (1.5) | .025 (0.6) | | CWT1501-ND | 7.05 | 31.54 | 51.94 | CWT-1501 |
| .090 (2.3) | .035 (0.9) | | CWT1502-ND | 7.38 | 32.94 | 54.25 | CWT-1502 |
| .110 (2.8) | .045 (1.2) | | CWT1503-ND | 7.53 | 33.69 | 55.50 | CWT-1503 |

Note: Please refer to data sheet for Post or Tab sizes

CWT-X-W122-5 Series – Shield Terminators

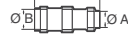
Materials: • **Insulation Sleeve:** Transparent heat-shrinkable radiation cross-linked modified polyolefin. • **Solder Preform with Flux:** Solder: Type Cd18 per ANSI-J-STD-006 Flux: Type ROM1 per ANSI-J-STD-004 • **Ground Lead:** Raychem cross-linked polyethylene wire, AWG22, stranded tin plated copper. • **Color:** Green Application: These controlled soldering devices are designed for termination of a bare or tin plated copper shield on a cable having an insulation rating for at least 85°C. **Temperature Range:** -55°C ~ 125°C



| Diameter A Minimum | Diameter B Minimum | Length - L Maximum | Digi-Key Part No. | Pricing | | | Raychem Part No. |
|--------------------|--------------------|--------------------|-------------------|---------|--------|--------|------------------|
| | | | | 10 | 50 | 100 | |
| .098 (2.50) | .118 (3.00) | .965 (24.50) | CWT3W1225-ND | 29.75 | 133.11 | 219.24 | CWT-3-W122-5 |
| .169 (4.30) | .189 (4.80) | 1.154 (29.30) | CWT5W1225-ND | 22.60 | 101.11 | 166.54 | CWT-5-W122-5 |
| .252 (6.40) | .287 (7.30) | 1.280 (32.50) | CWT7W1225-ND | 16.97 | 75.93 | 125.07 | CWT-7-W122-5 |

S01-0X-R Series – Shield Terminators

Materials: • **Insulation Sleeve:** Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride. • **Solder Preform with Flux and Thermal Indicator:** Solder: Type Sn63 per ANSI-J-STD-006 Flux: Type ROL1 per ANSI-J-STD-004 Thermal Indicator: Color change: violet to colorless Application: These parts are designed to make an environment resistant shield termination • **Jacket Rating:** 125°C • Parts are qualified to M83519/1



| Diameter A Minimum | Diameter B Minimum | Length - L Nominal | Digi-Key Part No. | Pricing | | | Raychem Part No. |
|--------------------|--------------------|--------------------|-------------------|---------|--------|--------|------------------|
| | | | | 10 | 50 | 100 | |
| .075 (1.90) | .105 (2.65) | .65 (16.5) | S0101R-ND | 19.20 | 85.89 | 141.46 | S01-01-R |
| .105 (2.65) | .145 (3.68) | .65 (16.5) | S0102R-ND | 18.38 | 82.24 | 135.46 | S01-02-R |
| .170 (4.30) | .200 (5.08) | .65 (16.5) | S0103R-ND | 20.06 | 89.73 | 147.78 | S01-03-R |
| .235 (5.95) | .255 (6.45) | .75 (19.1) | S0104R-ND | 23.86 | 106.71 | 175.76 | S01-04-R |
| .275 (7.00) | .300 (7.60) | .75 (19.1) | S0105R-ND | 27.68 | 123.83 | 203.97 | S01-05-R |

D-406 Series – DURASEAL® Closed Barrel / Crimp Splice

Materials: • **Insulation Sleeve:** Heat shrinkable, radiation cross-linked polyamide (nylon) with a polyamide-based hot-melt adhesive liner. Color per table. • **Crimp Splice:** Tin-plated copper alloy Application: These parts may be used to obtain an environment-resistant one-to-one in-line (butt) splice in wires meeting the size range and diameter restraints specified herein and having a temperature rating of not less than 85°C.

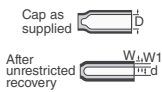


| AWG (Color) | Dimensions - Inches (mm) | | Digi-Key Part No. | Pricing | | | Raychem Part No. |
|----------------|--------------------------|--------------------|-------------------|--------------------|-------|-------|------------------|
| | Diameter A Minimum | Diameter B Minimum | | Length - L Nominal | 10 | 50 | |
| 18-22 (Red) | .058 (1.47) | .146 (3.70) | D4060001-ND | 8.81 | 39.40 | 64.90 | D-406-0001 |
| 14-16 (Blue) | .092 (2.33) | .181 (4.60) | D4060002-ND | 8.55 | 38.26 | 63.02 | D-406-0002 |
| 10-12 (Yellow) | .138 (3.50) | .255 (6.50) | D4060003-ND | 11.95 | 53.47 | 88.07 | D-406-0003 |

Raychem Heat Shrinkable Caps

PD and ES Caps Series

PD Caps Series – Semirigid, Encapsulant-lined: Dual wall PD Caps inexpensively encapsulate crimped electrical connections, including those on motor coils. They remain tightly in place for the life of the motor. • **Full Recovery Temperature:** 135°C • **Operating Temperature:** -55°C ~ 110°C • UL Recognized File No. E85381 • CSA Certified LR31929



ES Caps Series – Semirigid, Adhesive-lined, Polyolefin: ES Caps are specifically designed to provide mechanical and environmental protection of stub splices in electrical harnesses. Clear ES Caps allow see-through inspection; black ES Caps are flame-retardant. • **Full Recovery Temperature:** 135°C • **Operating Temperature:** -40°C ~ 105°C • UL Recognized File No. E85381

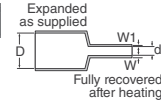
| Tubing Size | Inside Diameter | | Recovered Wall Thick. W mm | Digi-Key Part No. | Pricing | | | Raychem Part No. |
|-------------------------------|----------------------|-----------------------|----------------------------|-------------------|---------|--------|--------|------------------|
| | Expanded D - Min. mm | Recovered d - Max. mm | | | 100 | 500 | 1,000 | |
| PD Caps Series - Black | | | | | | | | |
| 1/8 | 3.2 | 0.58 | 1.22 | PDC018K-ND | 5.26 | 23.00 | 39.42 | PD-CAP-1/8-0 |
| 3/16 | 4.7 | 1.52 | 1.57 | PDC016K-ND | 5.52 | 24.15 | 41.40 | PD-CAP-3/16-0 |
| 1/4 | 6.4 | 2.03 | 1.98 | PDC014K-ND | 9.12 | 39.91 | 68.41 | PD-CAP-1/4-0 |
| 3/8 | 9.5 | 2.29 | 2.08 | PDC038K-ND | 16.37 | 71.63 | 122.81 | PD-CAP-3/8-0 |
| 1/2 | 12.7 | 2.29 | 2.54 | PDC012K-ND | 27.55 | 120.55 | 206.66 | PD-CAP-1/2-0 |

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

| Min. Length | Inside Diameter | | Recover. Wall Thick.† | | Digi-Key Part No. | Pricing | | | Raychem Part No. |
|-------------------------------|---------------------|----------------------|-----------------------|-----------------|-------------------|---------|--------|--------|-----------------------|
| | Expand. D - Min. mm | Recover. d - Max. mm | Total W mm | Melttable W1 mm | | 100 | 500 | 1,000 | |
| ES Caps Series - Clear | | | | | | | | | |
| 30 | 5.70 | 1.27 | 1.20 | 0.56 | ESC30C-ND | 8.89 | 38.91 | 66.70 | ES-CAP-NO.1-C1-X-30MM |
| 35 | 5.70 | 1.27 | 1.20 | 0.56 | ESC35C-ND | 10.08 | 44.10 | 75.60 | ES-CAP-NO.1-C1-X-35MM |
| 30 | 7.40 | 1.65 | 1.52 | 0.76 | ESB30C-ND | 10.70 | 46.81 | 80.24 | ES-CAP-NO.2-B9-X-30MM |
| 35 | 7.40 | 1.65 | 1.52 | 0.76 | ESB35C-ND | 11.96 | 52.36 | 89.76 | ES-CAP-NO.2-B9-X-35MM |
| 40 | 10.85 | 2.41 | 1.91 | 1.02 | ESB40C-ND | 21.42 | 93.74 | 160.71 | ES-CAP-NO.3-B8-X-40MM |
| 50 | 10.85 | 2.41 | 1.91 | 1.02 | ESB50C-ND | 25.97 | 113.60 | 194.75 | ES-CAP-NO.3-B8-X-50MM |
| ES Caps Series - Black | | | | | | | | | |
| 30 | 5.70 | 1.27 | 1.20 | 0.56 | ESC30K-ND | 8.89 | 38.91 | 66.70 | ES-CAP-NO.1-C1-0-30MM |
| 35 | 5.70 | 1.27 | 1.20 | 0.56 | ESC35K-ND | 10.08 | 44.10 | 75.60 | ES-CAP-NO.1-C1-0-35MM |
| 30 | 7.40 | 1.65 | 1.52 | 0.76 | ESB30K-ND | 10.70 | 46.81 | 80.24 | ES-CAP-NO.2-B9-0-30MM |
| 35 | 7.40 | 1.65 | 1.52 | 0.76 | ESB35K-ND | 11.96 | 52.36 | 89.76 | ES-CAP-NO.2-B9-0-35MM |
| 40 | 10.85 | 2.41 | 1.91 | 1.02 | ESB40K-ND | 21.42 | 93.74 | 160.71 | ES-CAP-NO.3-B8-0-40MM |
| 50 | 10.85 | 2.41 | 1.91 | 1.02 | ESB50K-ND | 25.97 | 113.60 | 194.75 | ES-CAP-NO.3-B8-0-50MM |

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Raychem Heat-Shrink Tubing
ATUM, DWP-125, and TAT-125 Series



ATUM Series – Adhesive-lined, High-Shrink-Ratio, Polyolefin:

• **Shrink Temperature:** 80°C • **Full Recovery Temperature:** 110°C • **Operating Temperature:** -55°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 3:1 and 4:1 • **UL Recognized file No.** E85381 • **Military AMS-DTL-23053/4 Applications:** • Environmentally seals and protects a wide variety of electrical applications, including back end connector sealing, breakouts, and connector-to-cable transitions. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, aluminum, steel, and copper. • **Dual Wall**

DWP-125 Series – Adhesive-lined, Flexible, High-Shrink-Ratio, Polyolefin:

• **Shrink Temperature:** 80°C • **Full Recovery Temperature:** 125°C • **Operating Temperature:** -40°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 3:1 • **UL Recognized file No.** E35586 • **CSA Certified LR31929** • **Military AMS-DTL-23053/4 Applications:** • Environmentally seals and protects a wide variety of electrical applications, including wire splices, breakouts, and connector-to-cable transitions. Ideal for applications where UL recognized/CSA certified adhesive-lined tubing is required. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, neoprene, and steel. • **Dual Wall**

TAT-125 Series – Adhesive-lined, Flexible, Polyolefin:

• **Shrink Temperature:** 95°C • **Full Recovery Temperature:** 121°C • **Operating Temperature:** -55°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 2:1 • **UL Recognized file No.** E85381 • **Military AMS-DTL-23053/4 Applications:** • Seals and protects simple in-line splices, bimetallic joints, and components from fluids, moisture, and corrosion. Repairs damaged wire insulation, especially where flexibility is required. Provides one-step electrical insulation and moisture sealing. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, neoprene, lead, and steel. • **Dual Wall**

| Tubing Size | Inside Diameter | | Recover. Wall Thick.† | | Digi-Key Part No. | Sold in 4' Lengths Only | | | | |
|-----------------------|---------------------|----------------------|-----------------------|-----------------|-------------------|-------------------------|-----------|------------|-------------|--------------|
| | Expand. D - Min. mm | Recover. d - Max. mm | Total W mm | Melttable W1 mm | | 4' (1pc.) | 8' (2pc.) | 20' (5pc.) | 48' (12pc.) | 100' (25pc.) |
| ATUM Series | | | | | | | | | | |
| 3/1 | 3.0 | 1.0 | 1.00 | 0.50 | ATU031K-ND | 7.04 | 12.20 | 27.00 | 56.34 | 93.90 |
| 6/2 | 6.0 | 2.0 | 1.00 | 0.50 | ATU062K-ND | 10.72 | 18.58 | 41.10 | 85.74 | 142.90 |
| 9/3 | 9.0 | 3.0 | 1.40 | 0.61 | ATU093K-ND | 16.33 | 28.30 | 62.58 | 130.60 | 217.67 |
| 12/4 | 12.0 | 4.0 | 1.78 | 0.76 | ATU124K-ND | 19.44 | 33.69 | 74.50 | 155.48 | 259.13 |
| 19/6 | 19.0 | 6.0 | 2.25 | 0.76 | ATU196K-ND | 27.21 | 47.16 | 104.30 | 217.66 | 362.77 |
| 24/8 | 24.0 | 8.0 | 2.54 | 1.02 | ATU248K-ND | 19.78 | 34.28 | 75.81 | 158.22 | 263.70 |
| 40/13 | 40.0 | 13.0 | 2.54 | 1.02 | ATU4013K-ND | 32.40 | 56.16 | 124.20 | 259.19 | 431.98 |
| 4/1 | 4.0 | 1.0 | 1.00 | 0.50 | ATM041K-ND | 6.45 | 11.18 | 24.73 | 51.60 | 86.00 |
| 8/2 | 8.0 | 2.0 | 1.00 | 0.50 | ATM082K-ND | 9.03 | 15.65 | 34.61 | 72.23 | 120.39 |
| 12/3 | 12.0 | 3.0 | 1.40 | 0.61 | ATM123K-ND | 22.24 | 38.56 | 85.28 | 177.96 | 296.60 |
| 16/4 | 16.0 | 4.0 | 1.78 | 0.76 | ATM164K-ND | 29.66 | 51.41 | 113.70 | 237.28 | 395.47 |
| 24/6 | 24.0 | 6.0 | 2.25 | 0.76 | ATM246K-ND | 23.86 | 41.37 | 91.48 | 190.91 | 318.18 |
| 32/8 | 32.0 | 8.0 | 2.54 | 1.02 | ATM328K-ND | 32.25 | 55.89 | 123.62 | 257.98 | 429.98 |
| 52/13 | 52.0 | 13.0 | 2.54 | 1.02 | ATM5213K-ND | 41.28 | 71.55 | 158.23 | 330.22 | 550.37 |
| DWP-125 Series | | | | | | | | | | |
| 1/8 | 3.2 | 1.0 | 1.02 | 0.25 | DWP018K-ND | 4.50 | 7.80 | 17.26 | 36.02 | 60.04 |
| 3/16 | 4.8 | 1.5 | 1.40 | 0.51 | DWP316K-ND | 4.69 | 8.13 | 17.99 | 37.54 | 62.57 |
| 1/4 | 6.4 | 2.0 | 1.45 | 0.56 | DWP014K-ND | 5.88 | 10.19 | 22.54 | 47.02 | 78.37 |
| 3/8 | 9.5 | 3.0 | 1.65 | 0.68 | DWP038K-ND | 6.49 | 11.25 | 24.87 | 51.91 | 86.52 |
| 1/2 | 12.7 | 4.0 | 1.78 | 0.76 | DWP012K-ND | 6.48 | 11.24 | 24.86 | 51.88 | 86.47 |
| 3/4 | 19.1 | 6.0 | 2.03 | 0.76 | DWP034K-ND | 9.08 | 15.74 | 34.80 | 72.63 | 121.05 |
| 1 | 25.4 | 8.0 | 2.50 | 0.76 | DWP01K-ND | 12.65 | 21.92 | 48.48 | 101.16 | 168.61 |
| 1-1/2 | 38.1 | 13.0 | 2.50 | 0.76 | DWP112K-ND | 42.01 | 72.81 | 161.01 | 336.03 | 560.05 |
| TAT-125 Series | | | | | | | | | | |
| 1/8 | 3.2 | 1.6 | 0.69 | 0.23 | TAT018K-ND | 4.60 | 7.96 | 17.61 | 36.74 | 61.24 |
| 3/16 | 4.8 | 2.4 | 0.71 | 0.25 | TAT316K-ND | 5.58 | 9.68 | 21.41 | 44.69 | 74.47 |
| 1/4 | 6.4 | 3.2 | 0.74 | 0.13 | TAT014K-ND | 7.01 | 12.14 | 26.84 | 56.02 | 93.37 |
| 3/8 | 9.5 | 4.8 | 0.74 | 0.13 | TAT038K-ND | 7.81 | 13.54 | 29.95 | 62.50 | 104.17 |
| 1/2 | 12.7 | 6.4 | 0.76 | 0.15 | TAT012K-ND | 9.71 | 16.84 | 37.23 | 77.69 | 129.48 |
| 3/4 | 19.1 | 9.5 | 0.89 | 0.15 | TAT034K-ND | 12.93 | 22.41 | 49.56 | 103.43 | 172.38 |
| 1 | 25.4 | 12.7 | 1.07 | 0.20 | TAT001K-ND | 12.66 | 21.95 | 48.55 | 101.31 | 168.85 |
| | | | | | | | | | | |



RW-175, RNF-100, and Versafit Series

RW-175 Series – Thin-wall, Semirigid, Fluoropolymer:

• Shrink Temperature: 95°C • Full Recovery Temperature: 175°C • Operating Temperature: -55°C – 175°C • Shrink Ratio: 2:1 • Color: Clear • UL Recognized File No. E35586 VW-1 • CSA Certified LR31929 VW-1 • AMS-DTL-23053/8 • Suitable for applications requiring high-temperature performance, outstanding abrasion and cut-through resistance, or superior chemical and solvent properties. The translucent polyvinylidene fluoride material permits visual inspection of covered components

RNF-100 Series – Flexible, Flame-retardant, High Performance Polyolefin:

• Shrink Temperature: 95°C • Full Recovery Temperature: 121°C • Operating Temperature: -55°C – 135°C • Shrink Ratio: 2:1 • Color: Black • UL Recognized File No. E35586 VW-1 • CSA Certified LR31929 VW-1 • AMS-DTL-23053/5 • High-quality, heat-shrinkable product for a wide variety of uses. It has become the industry standard for insulation, strain relief, wire bundling, and color-coding in both commercial and military applications. Excellent physical, chemical and electrical properties that meet industrial and military requirements for a highly reliable, general-purpose tubing.

Versafit Series – Highly Flame-retardant, Low Recovery Temperature:

• Shrink Temperature: 70°C • Full Recovery Temperature: 90°C • Operating Temperature: -55°C – 135°C • Shrink Ratio: 2:1 • Color: Black • UL Recognized File No. E35586 VW-1 • CSA Certified LR31929 VW-1 • AMS-DTL-23053/5 • Cost-effective for commercial and military applications. It is made from a specially formulated, cross-linked polyolefin to provide high flame-retardance, excellent flexibility, and low shrink temperature (to reduce installation time).

| Tubing Size Diameter† Inches (mm) | Min. Expand. D mm | Max. Recov. d mm | Nom. Recov. Wall Thick.† W mm | Digi-Key Part No. | Sold in 4' Lengths Only Price Per Length | | | | |
|--|-------------------|------------------|-------------------------------|-------------------|--|-----------|------------|-------------|--------------|
| | | | | | 4' (1pc.) | 8' (2pc.) | 20' (5pc.) | 48' (12pc.) | 100' (25pc.) |
| RW-175 Series – Thin wall, Semirigid, Fluoropolymer | | | | | | | | | |
| 3/64 (1.19) | 1.2 | 0.6 | 0.25 | RW364C-ND | 3.33 | 5.77 | 12.76 | 26.64 | 44.39 |
| 1/16 (1.60) | 1.6 | 0.8 | 0.25 | RW116C-ND | 3.50 | 6.06 | 13.40 | 27.97 | 46.62 |
| 3/32 (2.38) | 2.4 | 1.2 | 0.25 | RW332C-ND | 3.88 | 6.73 | 14.89 | 31.07 | 51.79 |
| 1/8 (3.18) | 3.2 | 1.6 | 0.25 | RW018C-ND | 4.23 | 7.34 | 16.23 | 33.87 | 56.44 |
| 3/16 (4.78) | 4.7 | 2.4 | 0.25 | RW316C-ND | 6.60 | 11.44 | 25.30 | 52.81 | 88.01 |
| 1/4 (6.35) | 6.4 | 3.2 | 0.33 | RW014C-ND | 8.31 | 14.41 | 31.86 | 66.50 | 110.84 |
| 3/8 (9.52) | 9.5 | 4.7 | 0.33 | RW038C-ND | 9.99 | 17.32 | 38.30 | 79.92 | 133.20 |
| 1/2 (12.70) | 12.7 | 6.4 | 0.33 | RW012C-ND | 17.85 | 30.95 | 68.45 | 142.84 | 238.07 |
| 3/4 (19.05) | 19.1 | 9.5 | 0.43 | RW034C-ND | 32.85 | 56.94 | 125.92 | 262.80 | 438.00 |
| RNF-100 Series – Flexible, Flame-retardant, High Performance Polyolefin | | | | | | | | | |
| 3/64 (1.19) | 1.2 | 0.6 | 0.40 | RNF364K-ND | 1.29 | 2.23 | 4.93 | 10.29 | 17.16 |
| 1/16 (1.60) | 1.6 | 0.8 | 0.43 | RNF116K-ND | 1.32 | 2.29 | 5.06 | 10.56 | 17.60 |
| 3/32 (2.38) | 2.4 | 1.2 | 0.51 | RNF332K-ND | 1.39 | 2.42 | 5.34 | 11.16 | 18.60 |
| 1/8 (3.18) | 3.2 | 1.6 | 0.51 | RNF018K-ND | 1.50 | 2.59 | 5.73 | 11.96 | 19.94 |
| 3/16 (4.78) | 4.7 | 2.4 | 0.51 | RNF316K-ND | 1.82 | 3.15 | 6.97 | 14.54 | 24.23 |
| 1/4 (6.35) | 6.4 | 3.2 | 0.64 | RNF014K-ND | 2.28 | 3.95 | 8.73 | 18.22 | 30.36 |
| 3/8 (9.52) | 9.5 | 4.8 | 0.64 | RNF038K-ND | 2.55 | 4.41 | 9.76 | 20.38 | 33.96 |
| 1/2 (12.70) | 12.7 | 6.4 | 0.64 | RNF012K-ND | 3.17 | 5.49 | 12.15 | 25.35 | 42.25 |
| 3/4 (19.05) | 19.1 | 9.5 | 0.76 | RNF034K-ND | 4.25 | 7.35 | 16.27 | 33.96 | 59.59 |
| 1 (25.4) | 25.4 | 12.7 | 0.89 | RNF001K-ND | 6.46 | 11.20 | 24.76 | 51.68 | 86.15 |
| 1 1/2 (38.1) | 38.1 | 19.1 | 1.02 | RNF112K-ND | 8.91 | 15.43 | 34.14 | 71.24 | 118.74 |
| 2 (50.8) | 50.8 | 25.4 | 1.14 | RNF002K-ND | 11.03 | 19.11 | 42.27 | 88.21 | 147.02 |
| 3 (76.2) | 76.2 | 38.1 | 1.27 | RNF003K-ND | 27.79 | 48.18 | 106.54 | 222.35 | 370.59 |
| 4 (101.6) | 101.6 | 50.8 | 1.40 | RNF004K-ND | 46.33 | 80.30 | 177.57 | 370.58 | 617.64 |

| Tubing Size Diameter† Inches (mm) | Min. Expand. D mm | Max. Recov. d mm | Nom. Recov. Wall Thick.† W mm | Digi-Key Part No. | Spool Size Feet | Price Per Spool | Raychem Part No. | Sold in 4' Lengths Only Price Per Length | | | | |
|--|-------------------|------------------|-------------------------------|-------------------|-----------------|-----------------|---------------------------|--|-----------|------------|-------------|--------------|
| | | | | | | | | 4' (1pc.) | 8' (2pc.) | 20' (5pc.) | 48' (12pc.) | 100' (25pc.) |
| RNF-100 Series – Flexible, Flame-retardant, High Performance Polyolefin | | | | | | | | | | | | |
| 3/64 (1.19) | 1.2 | 0.6 | 0.40 | RNF364K-100-ND | 100 | 14.71 | RFN-100-MINI-SPL-3/64-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1/16 (1.60) | 1.6 | 0.8 | 0.43 | RNF116K-75-ND | 75 | 14.71 | RFN-100-MINI-SPL-1/16-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 3/32 (2.38) | 2.4 | 1.2 | 0.51 | RNF332K-65-ND | 65 | 14.71 | RFN-100-MINI-SPL-3/32-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1/8 (3.18) | 3.2 | 1.6 | 0.51 | RNF018K-60-ND | 60 | 14.71 | RFN-100-MINI-SPL-1/8-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 3/16 (4.78) | 4.7 | 2.4 | 0.51 | RNF316K-50-ND | 50 | 14.71 | RFN-100-MINI-SPL-3/16-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1/4 (6.35) | 6.4 | 3.2 | 0.64 | RNF014K-40-ND | 40 | 14.71 | RFN-100-MINI-SPL-1/4-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 3/8 (9.52) | 9.5 | 4.8 | 0.64 | RNF038K-35-ND | 35 | 14.71 | RFN-100-MINI-SPL-3/8-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1/2 (12.70) | 12.7 | 6.4 | 0.64 | RNF012K-30-ND | 30 | 14.71 | RFN-100-MINI-SPL-1/2-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 3/4 (19.05) | 19.1 | 9.5 | 0.76 | RNF034K-25-ND | 25 | 14.71 | RFN-100-MINI-SPL-3/4-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1 (25.4) | 25.4 | 12.7 | 0.89 | RNF001K-15-ND | 15 | 14.71 | RFN-100-MINI-SPL-1-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| Versafit – Highly Flame-retardant, Low Recovery Temperature | | | | | | | | | | | | |
| 3/64 (1.19) | 1.63 | 0.6 | 0.40 | VER364K-100-ND | 100 | 14.83 | VERSAFIT-MINI-SPL-3/64-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1/16 (1.60) | 1.85 | 0.8 | 0.43 | VER116K-75-ND | 75 | 14.83 | VERSAFIT-MINI-SPL-1/16-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 3/32 (2.38) | 2.79 | 1.2 | 0.51 | VER332K-65-ND | 65 | 14.83 | VERSAFIT-MINI-SPL-3/32-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1/8 (3.18) | 3.43 | 1.6 | 0.51 | VER018K-60-ND | 60 | 14.83 | VERSAFIT-MINI-SPL-1/8-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 3/16 (4.78) | 5.21 | 2.4 | 0.51 | VER316K-50-ND | 50 | 14.83 | VERSAFIT-MINI-SPL-3/16-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1/4 (6.35) | 7.11 | 3.2 | 0.64 | VER014K-40-ND | 40 | 14.83 | VERSAFIT-MINI-SPL-1/4-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 3/8 (9.52) | 10.16 | 4.8 | 0.64 | VER038K-35-ND | 35 | 14.83 | VERSAFIT-MINI-SPL-3/8-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1/2 (12.70) | 13.72 | 6.4 | 0.64 | VER012K-30-ND | 30 | 14.83 | VERSAFIT-MINI-SPL-1/2-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 3/4 (19.05) | 20.45 | 9.5 | 0.76 | VER034K-25-ND | 25 | 14.83 | VERSAFIT-MINI-SPL-3/4-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |
| 1 (25.4) | 25.53 | 12.7 | 0.89 | VER001K-15-ND | 15 | 14.83 | VERSAFIT-MINI-SPL-1-BK | 10.47 | 18.11 | 40.14 | 83.44 | 137.74 |

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Versafit Heat Shrink Tubing Kits

| | |
|--|-------|
| VERSAS1-KIT-ND 3/16" 30 pcs., 1/4" 28 pcs., 3/8" 24 pcs., 1/2" 20 pcs., 3/4" 14 pcs., 1" 10 pcs., Black..... | 49.12 |
| Refill parts: | |
| VERS316K-ND 3/16" 30 pieces, Black | 6.14 |
| VER012K-ND 1/2" 20 pieces, Black | 6.14 |
| VER014K-ND 1/4" 28 pieces, Black | 6.14 |
| VER034K-ND 3/4" 14 pieces, Black | 6.14 |
| VER038K-ND 3/8" 24 pieces, Black | 6.14 |
| VER001K-ND 1" 10 pieces, Black | 6.27 |

VERSAS2-KIT-ND Color Kit includes Red, Black, Yellow, Clear, White, Green and Blue tubing.
3/32" 35 pcs. (5 of each color), 1/8" 28 pcs. (4 of each color), 3/16" 21 pcs. (3 of each color), 1/4" 21 pcs. (3 of each color), 3/8" 14 pcs. (2 of each color), 1/2" 14 pcs. (2 of each color) 52.37

| | |
|---|------|
| Refill parts: | |
| VERS32M-ND 3/32" 35 pieces, Black | 6.14 |
| VER014M-ND 1/4" 21 pieces, Black | 6.14 |
| VER018M-ND 1/8" 28 pieces, Black | 6.14 |
| VER038M-ND 3/8" 14 pieces, Black | 6.14 |
| VER316M-ND 3/16" 21 pieces, Black | 6.14 |
| VER012M-ND 1/2" 14 pieces, Black | 6.14 |

VERSAS4-KIT-ND 3/16", 1/4", 3/8", 1/2", 3/4" and 1" 18 pieces (3 pieces of each size), Black
 6.14 |

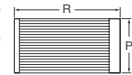
VERSAS6-KIT-ND 3/64", 1/16", 3/32" and 1/8" 24 pieces (6 pieces of each size), Black
 6.14 |

Note: All kits have 6" pieces

Quick Shrink Wrap



Heat-shrinkable wraparound repair sleeves combine the ease of insulation of self-adhesive tapes with the superior sealing and insulating capabilities of heat-shrinkable tubing. The black, adhesive-backed polyolefin wraparound sleeves permit fast, permanent repairs of minor damage to cable insulation without requiring the connector to be removed from the cable prior to repair. The sleeves can also be used to organize and group wire bundles. • Wall Thickness: 0.65mm



| Dimensions - mm | | Digi-Key Part No. | Price Each | | |
|-----------------|-----|-------------------|------------|-------|-------|
| P | R | | 1 | 5 | 10 |
| 60 | 100 | QSW60100-ND | 5.72 | 5.01 | 4.58 |
| 60 | 200 | QSW60200-ND | 9.64 | 8.44 | 7.72 |
| 60 | 300 | QSW60300-ND | 13.34 | 11.68 | 10.68 |
| 60 | 400 | QSW60400-ND | 17.38 | 15.21 | 13.91 |
| 100 | 100 | QSW100100-ND | 6.97 | 6.10 | 5.58 |
| 100 | 200 | QSW100200-ND | 12.65 | 11.07 | 10.12 |
| 100 | 300 | QSW100300-ND | 17.90 | 15.67 | 14.33 |

DABURN Shrinkable Tubing – Black Polyolefin



The most widely used, general purpose heat shrinkable tubing. An irradiated flexible, flame-retardant polyolefin tubing with a wide scope of applications. These include: harnessing, wire bundling, strain reliefs, or any application where components or cables must be insulated or packaged. **Specifications:** • UL224 • CSA Approved • AMS-DTL-23053/5 • MSFC-276B • AMS 3636B • Operating Temperature: -55°C – 135°C • Shrinkage Ratio: To 50% of supplied diameter at 90°C • Electrical Properties: Dielectric Strength: 1300 V/mil (512 kV/cm) Volume Resistivity: 10¹⁵ Ω-cm • Physical Properties: Tensile Strength: 2500 PSI, nominal (176 kg/cm²) Ultimate Elongation: 400% nominal

Shrink Tubing Digi-Key® Assortment Kit Contains the following:

| | |
|-----------------|-----------|
| W181-5-ND | W184-5-ND |
| W182-5-ND | W185-5-ND |
| W183-5-ND | W186-5-ND |
| STA-KIT-ND..... | 7.95 |

| Minimum Supp. I.D. Inches (mm) | Maximum Recov. I.D. Inches (mm) | Nom. Recov. Wall Thick. Inches (mm) | Digi-Key Part No. | (NOTE: "X" in Digi-Key Part No. Represents No. of Feet) Price Per Length | | | |
|--------------------------------|---------------------------------|-------------------------------------|-------------------|--|--------|--------|-------|
| | | | | 5' | 25' | 50' | 100' |
| .06 (1.60) | .03 (.78) | .017 (.43) | W181-X-ND | 1.65 | 7.35 | 13.16 | 23.68 |
| .09 (2.36) | .05 (1.27) | .020 (.50) | W182-X-ND | 1.74 | 7.75 | 13.87 | — |
| .13 (3.18) | .06 (1.58) | .020 (.50) | W183-X-ND | 1.85 | 8.27 | 14.81 | 26.65 |
| .19 (4.75) | .09 (2.36) | .020 (.50) | W184-X-ND | 2.20 | 9.84 | 17.61 | 31.71 |
| .25 (6.35) | .13 (3.18) | .025 (.63) | W185-X-ND | 2.89 | 12.91 | 23.12 | 41.62 |
| .38 (9.52) | .19 (4.75) | .025 (.63) | W186-X-ND | 3.04 | 13.59 | 24.34 | 43.81 |
| .50 (12.7) | .25 (6.35) | .025 (.63) | W187-X-ND | 3.47 | 15.49 | 27.74 | 49.93 |
| .75 (19.1) | .38 (9.52) | .030 (.76) | W188-X-ND | 4.68 | 20.90 | 37.43 | 67.39 |
| 1.0 (25.4) | .50 (12.70) | .035 (.88) | W189-X-ND† | 7.18 | 32.08 | 57.47 | 95.78 |
| 3.0 (76.2) | 1.5 (38.10) | .050 (1.27) | W192-X-ND† | 31.49 | 141.69 | 261.74 | — |
| 4.0 (101.6) | 2.0 (50.80) | .055 (1.40) | W193-X-ND† | 37.38 | 168.22 | 398.96 | — |

NOTE: Longer lengths available, call Digi-Key † Available only in listed lengths

Irradiated Polyolefin Heat Shrink



DAFLEX SH277 shrinkable irradiated polyolefin tubing is flame retardant and withstands up to 300°C (572°F) for short durations and can be hot stamped. **Specifications:** • Shrink Ratio: 4:1 • Longitudinal Shrinkage: 10% maximum • Shrink Temperature: 120°C (250°F) • Continuous Operation Temperature: -55°C - 135°C • Meets or exceeds MIL-I-23053/5 Class 1 and 3

| Description | Minimum Supplied I.D. Inch (mm) | Maximum Recovery I.D. Inch (mm) | Nominal Recovered Wall Thick. Inch (mm) | Digi-Key Part No. | Sold in 4' Lengths Only Price Per Length | | | | |
|---------------|---------------------------------|---------------------------------|---|-------------------|--|-----------|------------|-------------|--------------|
| | | | | | 4' (1pc.) | 8' (2pc.) | 20' (5pc.) | 48' (12pc.) | 100' (25pc.) |
| 1" x 4' Black | 1.0 (25.4) | .26 (6.5) | .060 (1.5) | W203-ND | 49.75 | 66.33 | 149.24 | 298.47 | 538.91 |
| 2" x 4' Black | 2.0 (50.8) | .50 (12.7) | .060 (1.5) | W204-ND | 68.04 | 90.72 | 204.12 | 408.24 | 737.11 |



Heat Shrink Tubing

Dual Wall, Adhesive-Lined Flexible Polyolefin Tubing Q5-2X and Q5-3X Series

Features: • Designed to provide both insulation and sealing for protection against water and moisture of auto wires, shipping cables, metal tubes and bundled wires.

Specifications: • **Operating Temperature:** -45°C ~ 125°C • **Full Recovery Temperature:** 125°C • **Approvals:** UL 224: 125°C, 600V, File No. E236137 • **Shrink Ratio:** Q5-2X Series: 2:1, Q5-3X Series: 3:1 • **Color:** Black

| Tubing Dia. $\frac{1}{4}$ Inches | As Supplied Minimum Inside Diameter mm | After Recovered - mm | | | Digi-Key Part No. | Sold in 4' Lengths Only Price Per Length | | |
|----------------------------------|--|-------------------------|------------------------|----------------------------|-------------------|--|------------|-------------|
| | | Maximum Inside Diameter | Nominal Wall Thickness | Nominal Adhesive Thickness | | 4' (1 pc.) | 8' (2 pc.) | 20' (5 pc.) |
| Q5-2X Series | | | | | | | | |
| 3/16 | 3.2 | 1.60 | 0.70 | 0.20 | Q52X018B-ND | .92 | 1.60 | 3.53 |
| 3/16 | 4.8 | 2.40 | 0.70 | 0.20 | Q52X0316B-ND | 1.10 | 1.92 | 4.24 |
| 1/4 | 6.4 | 3.20 | 0.75 | 0.20 | Q52X014B-ND | 1.35 | 2.34 | 5.18 |
| 3/8 | 9.5 | 4.80 | 0.75 | 0.20 | Q52X038B-ND | 1.84 | 3.19 | 7.06 |
| 1/2 | 12.7 | 6.40 | 0.75 | 0.20 | Q52X012B-ND | 2.52 | 4.36 | 9.65 |
| 3/4 | 19.1 | 9.50 | 0.90 | 0.20 | Q52X034B-ND | 4.12 | 7.14 | 15.78 |
| 1 | 25.4 | 12.70 | 1.10 | 0.20 | Q52X100B-ND | 6.08 | 10.54 | 23.31 |
| 1 1/2 | 38.1 | 19.00 | 1.10 | 0.20 | Q52X112B-ND | 10.13 | 17.56 | 38.84 |
| Q5-3X Series | | | | | | | | |
| 1/8 | 3.0 | 0.60 | 1.00±0.10 | 0.50 | Q53X018B-ND | .92 | 1.60 | 3.53 |
| 3/16 | 4.8 | 1.50 | 1.10±0.10 | 0.50 | Q53X0316B-ND | 1.10 | 1.92 | 4.24 |
| 1/4 | 6.0 | 2.00 | 1.20±0.10 | 0.50 | Q53X014B-ND | 1.35 | 2.34 | 5.18 |
| 3/8 | 9.0 | 3.00 | 1.30±0.10 | 0.60 | Q53X038B-ND | 1.84 | 3.19 | 7.06 |
| 1/2 | 12.0 | 4.00 | 1.70±0.15 | 0.80 | Q53X012B-ND | 2.82 | 4.90 | 10.84 |
| 3/4 | 19.0 | 6.00 | 2.00±0.20 | 0.80 | Q53X034B-ND | 4.48 | 7.77 | 17.18 |
| 1 | 24.0 | 8.00 | 2.20±0.20 | 1.05 | Q53X100B-ND | 7.06 | 12.24 | 27.07 |
| 1 1/4 | 30.0 | 10.00 | 2.40±0.20 | 1.05 | Q53X114B-ND | 8.48 | 14.69 | 32.50 |
| 1 1/2 | 40.0 | 13.00 | 2.50±0.20 | 1.05 | Q53X112B-ND | 9.90 | 17.51 | 38.07 |
| 2 | 50.0 | 19.00 | 2.50±0.20 | 1.05 | Q53X200B-ND | 14.21 | 25.14 | 54.65 |

‡ Size before shrinking

Polyolefin Heat Shrink Tubing

Q2-F and Q2-F3X Series

Features: • Environmentally friendly flame retardant shrink tubing • Good flexibility and superior mechanical strength in such fields as electronics, communication and automobile

Specifications: • **Operating Temperature:** -55° ~ 135°C • **Full Recovery Temperature:** 100°C • **Shrink Ratio:** Q2-F: 2:1, Q2-F3X: 3:1 • **Approvals:** UL 224: 125°C, 600V, VW-1, File No. E236137 • **Material:** No PBB's, PBBO's, PBBE's • **Cadmium Content:** <5ppm • **Lead Content:** <10ppm • **Standard Color:** Black

| Tubing Dia. $\frac{1}{4}$ Inches | As Supplied Minimum Inside Diameter mm | After Recovered | | Digi-Key Part No. | Sold in 4' Lengths Only Price Per Length | | | Spool Size Feet | Price Per Spool |
|----------------------------------|--|-------------------------|------------------------|-------------------|--|------------|-------------|-----------------|-----------------|
| | | Maximum Inside Diameter | Nominal Wall Thickness | | 4' (1 pc.) | 8' (2 pc.) | 20' (5 pc.) | | |
| Q2-F Series | | | | | | | | | |
| 3/64 | 1.6 | 0.60 | 0.40±0.08 | Q2F364B-ND | .26 | .99 | — | — | — |
| | | | | Q2F364B-100-ND | — | — | 100 | 3.27 | — |
| | | | | Q2F364B-1000-ND | — | — | 1000 | 30.90 | — |
| 1/16 | 2.0 | 0.80 | 0.43±0.08 | Q2F116B-ND | .27 | 1.04 | — | — | — |
| | | | | Q2F116B-100-ND | — | — | 100 | 3.44 | — |
| | | | | Q2F116B-1000-ND | — | — | 1000 | 32.44 | — |
| 3/32 | 3.1 | 1.20 | 0.51±0.08 | Q2F332B-ND | .30 | 1.14 | — | — | — |
| | | | | Q2F332B-100-ND | — | — | 100 | 3.77 | — |
| | | | | Q2F332B-500-ND | — | — | 500 | 17.77 | — |
| 1/8 | 3.7 | 1.60 | 0.51±0.08 | Q2F018B-ND | .32 | 1.23 | — | — | — |
| | | | | Q2F018B-100-ND | — | — | 100 | 4.09 | — |
| | | | | Q2F018B-500-ND | — | — | 500 | 19.31 | — |
| 3/16 | 5.2 | 2.40 | 0.51±0.08 | Q2F316B-ND | .46 | 1.76 | — | — | — |
| | | | | Q2F316B-100-ND | — | — | 100 | 5.82 | — |
| | | | | Q2F316B-500-ND | — | — | 500 | 27.42 | — |
| 1/4 | 6.8 | 3.20 | 0.64±0.08 | Q2F014B-ND | .57 | 2.20 | — | — | — |
| | | | | Q2F014B-100-ND | — | — | 100 | 7.29 | — |
| | | | | Q2F014B-500-ND | — | — | 500 | 34.38 | — |
| 5/16 | 8.8 | 4.00 | 0.64±0.08 | Q2F516B-ND | .66 | 2.55 | — | — | — |
| | | | | Q2F516B-100-ND | — | — | 100 | 8.44 | — |
| | | | | Q2F516B-250-ND | — | — | 250 | 19.89 | — |
| 3/8 | 10.7 | 4.80 | 0.64±0.08 | Q2F038B-ND | .78 | 2.99 | — | — | — |
| | | | | Q2F038B-100-ND | — | — | 100 | 9.91 | — |
| | | | | Q2F038B-250-ND | — | — | 250 | 23.37 | — |
| 1/2 | 13.7 | 6.40 | 0.64±0.08 | Q2F012B-ND | .97 | 3.71 | — | — | — |
| | | | | Q2F012B-100-ND | — | — | 100 | 12.28 | — |
| | | | | Q2F012B-200-ND | — | — | 200 | 23.17 | — |
| 5/8 | 16.7 | 8.00 | 0.76±0.08 | Q2F058B-ND | 1.50 | 5.76 | — | — | — |
| | | | | Q2F058B-50-ND | — | — | 50 | 9.54 | — |
| | | | | Q2F058B-200-ND | — | — | 200 | 36.00 | — |
| 3/4 | 20.5 | 9.50 | 0.76±0.08 | Q2F034B-ND | 1.77 | 6.78 | — | — | — |
| | | | | Q2F034B-50-ND | — | — | 50 | 11.22 | — |
| | | | | Q2F034B-200-ND | — | — | 200 | 42.33 | — |
| 1 | 26.5 | 12.70 | 0.89±0.12 | Q2F100B-ND | 2.51 | 9.61 | — | — | — |
| | | | | Q2F100B-50-ND | — | — | 50 | 15.93 | — |
| | | | | Q2F100B-200-ND | — | — | 200 | 60.10 | — |
| Q2-F3X Series | | | | | | | | | |
| 1/16 | 1.6 | 0.5 | 0.45 | Q2F3X116B-ND | .28 | 1.07 | — | — | — |
| | | | | Q2F3X116B-100-ND | — | — | 100 | 3.35 | — |
| | | | | Q2F3X116B-500-ND | — | — | 500 | 17.77 | — |
| 1/8 | 3.2 | 1.0 | 0.55 | Q2F3X018B-ND | .35 | 1.33 | — | — | — |
| | | | | Q2F3X018B-100-ND | — | — | 100 | 4.54 | — |
| | | | | Q2F3X018B-500-ND | — | — | 500 | 22.01 | — |
| 3/16 | 4.8 | 1.5 | 0.60 | Q2F3X316B-ND | .99 | 3.83 | — | — | — |
| | | | | Q2F3X316B-100-ND | — | — | 100 | 6.53 | — |
| | | | | Q2F3X316B-250-ND | — | — | 250 | 15.02 | — |

| Tubing Dia. $\frac{1}{4}$ Inches | As Supplied Minimum Inside Diameter mm | After Recovered | | Digi-Key Part No. | Sold in 4' Lengths Only Price Per Length | | | Spool Size Feet | Price Per Spool |
|----------------------------------|--|-------------------------|------------------------|-------------------|--|------------|-------------|-----------------|-----------------|
| | | Maximum Inside Diameter | Nominal Wall Thickness | | 4' (1 pc.) | 8' (2 pc.) | 20' (5 pc.) | | |
| 1/4 | 6.4 | 2.0 | 0.65 | Q2F3X014B-ND | .68 | 2.61 | — | — | — |
| | | | | Q2F3X014B-100-ND | — | — | 100 | 8.91 | — |
| | | | | Q2F3X014B-250-ND | — | — | 250 | 21.63 | — |
| 3/8 | 9.5 | 3.0 | 0.75 | Q2F3X038B-ND | .93 | 3.56 | — | — | — |
| | | | | Q2F3X038B-100-ND | — | — | 100 | 12.18 | — |
| | | | | Q2F3X038B-250-ND | — | — | 250 | 29.55 | — |
| 1/2 | 12.7 | 4.0 | 0.80 | Q2F3X012B-ND | 1.16 | 4.46 | — | — | — |
| | | | | Q2F3X012B-50-ND | — | — | 50 | 7.59 | — |
| | | | | Q2F3X012B-150-ND | — | — | 150 | 22.12 | — |
| 3/4 | 19.1 | 6.0 | 0.90 | Q2F3X034B-ND | 2.17 | 8.33 | — | — | — |
| | | | | Q2F3X034B-50-ND | — | — | 50 | 14.19 | — |
| | | | | Q2F3X034B-150-ND | — | — | 150 | 41.35 | — |
| 1 | 25.4 | 8.0 | 1.20 | Q2F3X100B-ND | 3.06 | 11.72 | — | — | — |
| | | | | Q2F3X100B-50-ND | — | — | 50 | 20.00 | — |
| | | | | Q2F3X100B-150-ND | — | — | 150 | 58.25 | — |
| 1 1/2 | 39.0 | 13.0 | 1.25 | Q2F3X112B-ND | 5.54 | 21.22 | — | — | — |
| | | | | Q2F3X112B-50-ND | — | — | 50 | 35.12 | — |
| | | | | Q2F3X112B-150-ND | — | — | 150 | 105.39 | — |

‡ Size before shrinking

Heat Shrink Tubing Kits

Q2-F and Q2-Z Series

| | |
|--|--------------|
| Q2Z1-KIT-ND - Heat Shrink Kit 1 Includes: 180 pieces, 6" Lengths, Black 3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.) | 14.65 |
| Q2Z2-KIT-ND - Heat Shrink Kit 2 Includes: 82 pieces, 6" Lengths, Black 5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.) | 19.97 |
| Q2F1-KIT-ND - Heat Shrink Kit 1 Includes: 180 pieces, 6" Lengths, Black 3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.) | 16.03 |
| Q2F8-KIT-ND - Heat Shrink Kit 2 Includes: 82 pieces, 6" Lengths, Black 5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.) | 21.97 |
| Q2F15-KIT-ND - Heat Shrink Kit 4 Includes: 141 pieces, 6" Lengths, Assorted Colors 1/16" (39 pcs.), 1/8" (31 pcs.), 1/4" (23 pcs.), 3/8" (19 pcs.), 1/2" (19 pcs.), 1" (10 pcs.) | 25.08 |

Refill Bags

| Description | Digi-Key Part No. | Price Each |
|--|-------------------|------------|
| Refill Bags for Q2F Kit 1 | | |
| 3/64", 40 pieces (consists of 6" pieces), Black | Q2F2-KIT-ND | .94 |
| 1/16", 36 pieces (consists of 6" pieces), Black | Q2F3-KIT-ND | .89 |
| 3/32", 32 pieces (consists of 6" pieces), Black | Q2F4-KIT-ND | .86 |
| 1/8", 28 pieces (consists of 6" pieces), Black | Q2F5-KIT-ND | .82 |
| 3/16", 24 pieces (consists of 6" pieces), Black | Q2F6-KIT-ND | 1.00 |
| 1/4", 20 pieces (consists of 6" pieces), Black | Q2F7-KIT-ND | 1.05 |
| Refill Bags for Q2F Kit 2 | | |
| 5/16", 18 pieces (consists of 6" pieces), Black | Q2F9-KIT-ND | 1.09 |
| 3/8", 16 pieces (consists of 6" pieces), Black | Q2F10-KIT-ND | 1.14 |
| 1/2", 14 pieces (consists of 6" pieces), Black | Q2F11-KIT-ND | 1.23 |
| 5/8", 14 pieces (consists of 6" pieces), Black | Q2F12-KIT-ND | 1.23 |
| 3/4", 12 pieces (consists of 6" pieces), Black | Q2F13-KIT-ND | 1.94 |
| 1", 8 pieces (consists of 6" pieces), Black | Q2F14-KIT-ND | 1.83 |
| Refill Bags for Q2F Kit 4 | | |
| 1/16, 39 pieces (consists of 6" pieces), Assorted Colors | Q2F16-KIT-ND | .97 |
| 1/8", 31 pieces (consists of 6" pieces), Assorted Colors | Q2F17-KIT-ND | .89 |
| 1/4", 23 pieces (consists of 6" pieces), Assorted Colors | Q2F18-KIT-ND | 1.14 |
| 3/8", 19 pieces (consists of 6" pieces), Assorted Colors | Q2F19-KIT-ND | 1.24 |
| 1/2", 19 pieces (consists of 6" pieces), Assorted Colors | Q2F20-KIT-ND | 1.34 |
| 1", 10 pieces (consists of 6" pieces), Assorted Colors | Q2F21-KIT-ND | 1.99 |

Modified Thin Wall Flexible

Kynar® (PVDF) Heat Shrink Tubing - Q-150K Series

Features: • Excellent flame retardant heat shrinkable polyvinylidene fluoride tubing • Outstanding abrasion and cut-through resistance • Superior chemical and solvent resistant properties • Available in clear and black

Specifications: • **Operating Temperature:** -55°C ~ 150°C • **Full Recovery Temperature:** 175°C • **Shrink Ratio:** 2:1 • **Approvals:** UL 224: 150°C, 600V, File No. E245010

| Tubing Dia. $\frac{1}{4}$ Inches | As Supplied Minimum Inside Diameter mm | After Recovered | | Color | Digi-Key Part No. | Sold in 4' Lengths Only Price Per Length | | |
|----------------------------------|--|-------------------------|-------------------|-------|-------------------|--|------------|-------------|
| | | Maximum Inside Diameter | Wall Thickness mm | | | 4' (1 pc.) | 8' (2 pc.) | 20' (5 pc.) |
| 3/64 | 1.2 | 0.60 | 0.25±0.05 | Clear | QKY364C-ND | 1.07 | 1.86 | 4.12 |
| | | | | Black | QKY364B-ND | 1.07 | 1.86 | 4.12 |
| 1/16 | 1.6 | 0.80 | 0.25±0.05 | Clear | QKY116C-ND | 1.20 | 2.08 | 4.60 |
| | | | | Black | QKY116B-ND | 1.20 | 2.08 | 4.60 |
| 3/32 | 2.4 | 1.20 | 0.27±0.04 | Clear | QKY332C-ND | 1.52 | 2.63 | 5.81 |
| | | | | Black | QKY332B-ND | 1.52 | 2.63 | 5.81 |
| 1/8 | 3.2 | 1.60 | 0.27±0.04 | Clear | QKY018C-ND | 1.83 | 3.17 | 7.02 |
| | | | | Black | QKY018B-ND | 1.83 | 3.17 | 7.02 |
| 3/16 | 4.8 | 2.40 | 0.27±0.04 | Clear | QKY316C-ND | 2.59 | 4.49 | 9.92 |
| | | | | Black | QKY316B-ND | 2.59 | 4.49 | 9.92 |
| 1/4 | 6.4 | 3.20 | 0.33±0.05 | Clear | QKY014C-ND | 3.16 | 5.47 | |