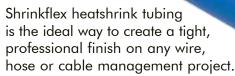


Polyolefin

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



2:1 Polyolefin **Heatshrink Tubing**

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

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



Shrinkflex works great for color coding and wire harnessing applications.

Polyolefin Heatshrink Tubing

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

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



Convenient packaging.









hrinkflex

Put-Ups

2:1 POLYOLEFIN

- **Shrink Temperature** 194°F (90°C)
- Versatile And Economical **Termination Solution**
- **Wide Selection Of Sizes And Colors**
- Resists Common **Automotive Chemicals**
- **Easily Installs Over Connectors And Splices**

Nominal Size	Part #	Unshrunk	Shrunk	Put-Ups		Available Colors	Lbs/ 100'	
Size	#	Diameter /mm	Diameter /mm	Bulk Spool	Shop Spool	Colors	100	
3/64"	H2N0.05	1.3	0.6	500′	25′	11	0.16	
1/16"	H2N0.06	1.8	0.8	500′	25′	11	0.22	
1/8"	H2N0.13	3.4	1.6	500′	25′	11	0.43	
3/16"	H2N0.19	5.0	2.4	500′	25′	2*	0.60	
1/4"	H2N0.25	6.4	3.2	250′	25′	11	1.04	
3/8"	H2N0.38	9.5	4.8	200′	25′	11	1.31	
1/2"	H2N0.50	12.7	6.4	200′	25′	11	1.52	
5/8"	H2N0.63	16.7	8.0	100′	25′	11	2.12	
3/4"	H2N0.75	19.1	9.4	100′	25′	11	2.58	
1″	H2N1.00	25.7	12.7	100′	25′	11	3.74	
1 1/2"	H2N1.50	38.1	19.1	100′	25′	11	5.53	
2"	H2N2.00	51.0	25.4	100′	25′	11	8.25	
3″	H2N3.00	76.2	38.1	100′	25′	7*	13.15	
4"	H2N4.00BK	101.6	50.8	100′	25′	Black	23.50	

Economical 2:1 Heatshrink Tubing Shrinks To 1/2 its original diameter!

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

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

Match the color of braided sleeving with our 2:1 Shrinkflex tubing and create a unified finished look.

Colors Available:

Black (BK), Brown (BR), White (WH), Gray (GY), Clear (CL), Blue (BL), Green (GN), Yellow (YL), Orange (OR), Red (RD) and Purple (PP).



Material

Polyolefin

Grade

H₂N



www.techflex.com 800.323.5140 • 973.300.9242 • fax: 973.300.9409 104 Demarest Road • Sparta, NJ 07871





Nominal Diamete

Colors Available:

11= call for availability

7* = BK, CL, GN, GY, RD,

of colors.

WH, and YL. 2* = BK & CL.



www.techflex.com

Technical Data Sheet

2:1 POLYOLEFIN



Moisture Absorption % ASTM D-570 Flammability Rating _____ UL 224, VW-1

Chemical Resistance

Corrosion ASTM DTL-23053 No Corrosion Fluid Resistance (73°F/23°C 24 hrs.)_____1,000

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



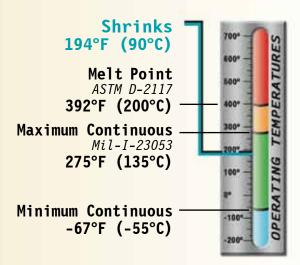
Slip the Shrinkflex® tubing over the bundle and position it so that both the sleeved and unsleeved portions are

sufficiently covered. Notice the small pieces of tubing installed on single wires as part of a color coding system. If your project requires multiple operations, always work up from the smallest to the largest bundle.



Gently apply heat to Shrinkflex® tubing from a heat gun, hair dryer or

torch with an appropriate attachment. Keep the heat source far enough away so that hot metal or direct flame does not come in contact with the tubing, wires or sleeving. Move the heat around the bundle to prevent damaging the sleeving and to ensure that all areas of the tubing have been shrunk. Once cooled, your installation is complete.



Recommended Cutting Scissors
Stock Colors11
Tensile Strength PSI ASTM D-6381,500
Elongation % ASTM D-638200
Specific Gravity ASTM D-792 1.35
Low Temperature flex (-67°F/-55°C)No Cracking MIL-DTL-23053
Heat Shock (482°F/250°C)No Cracking MIL-DTL-23053
Heat Resistance (347°F/175°C, 168 Hrs.) ASTM D-638 100
Secant Modulus PSI ASTM D-88225,000
Longitudinal Change % MIL-DTL-23053±5
Dielectric Strength (volts/mil) ASTM D-876 500
Volume Resistivity (ohm-cm) ASTM D-876 1.0 x 10 ¹⁴

How to work with heatshrink tubing ...



What is Heatshrink Tubing?

Heatshrink tubing is a flexible, pre-stretched tube, engineered from a wide range of polymers, that will shrink to a fixed diameter when sufficient heat is applied. Its diameter and thickness can vary, and it is rated by its expansion ratio, a comparative of the differences in expansion and recovery rate.

Heatshrink tubing is the ideal way to create a tight, professional finish on any wire, hose or cable management project. Once shrunk, the tubing will hold its reduced state, even in elevated temperatures. Typical applications for the heatshrink tubing include: electrical insulation, termination, splicing, cable bundling, color coding, strain relief, wire marking, identification, mechanical protection, corrosion protection, abrasion protection and moisture and weather sealing.

What does shrink ratio (2:1, 3:1, etc.) mean?

The shrink ratio is the approximate maximum amount that heatshrink tubing will shrink relative to the unshrunk diameter. For example, a piece of 3/4" heatshrink tubing with a 3:1 shrink ratio will shrink down to a maximum diameter of approximately 1/4" when fully shrunk. All heatshrink tubing on our site is specified in it's UNSHRUNK diameter, so consider the shrink ratio and the unshrunk diameter when ordering heatshrink tubing. Heatshrink tubing with a larger shrink ratio will be more forgiving when fitting the tubing over plugs or connectors, but will have a bit thicker wall thickness and slightly less flexibility when shrunk then a lower ratio product.



Step 1

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



Step 2

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



Step 3

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



Milwaukee High Quality Heat Guns & Accessories

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

Dual Temp - HGD8975-6 Variable Temp LED Display - HGL8988-20 Accessory Kit - HGA49-80-0300