

Polyolefin

- **Shrink Temp. 194°F**
- **Flame Retardant**
- **Versatile & Economical Termination Solution**
- **Resists Common Automotive Chemicals**
- **Easily Installs Over Connectors & Splices**

4:1 Polyolefin Heatshrink Tubing

4:1 Shrinkflex heatshrink tubing is the most versatile of the heatshrink products. The high shrink ratio ensures that the tubing will slip over large connectors or plugs and still provide a tight, professional seal.

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/2"	H4N0.50BK	12.0mm	3.0mm	200'	25'	Black (BK)	1.17
3/4"	H4N0.75BK	19.0mm	4.5mm	200'	25'	Black (BK)	2.75
1"	H4N1.00BK	25.4mm	7.0mm	200'	25'	Black (BK)	3.25
1 1/4"	H4N1.25BK	32.0mm	8.0mm	200'	25'	Black (BK)	4.00
1 1/2"	H4N1.50BK	38.0mm	9.5mm	200'	25'	Black (BK)	4.25

VW-1   

PVC

Ultra Clear 2:1 PVC Heatshrink Tubing

Shrinks to 1/2 it's original diameter. Ultra clear PVC heatshrink tubing is ideal for application where complete transparency is required.

Perfect for protecting exposed wires and cables on motorcycles and custom automobiles. Resists gasoline, oil, and common chemicals; provides protection from abrasion and severe environments.

Nominal Size	Part #	Unshrunk Diameter	Shrunk Diameter	Standard Spool Put-Ups		Available Colors	Lbs/100'
				Bulk Spool	Shop Spool		
1/4"	H2P0.25CL	6.4mm	3.2mm	200'	25'	Clear (CL)	0.60
5/16"	H2P0.31CL	8.0mm	4.0mm	200'	25'	Clear (CL)	0.70
3/8"	H2P0.38CL	9.5mm	4.8mm	200'	25'	Clear (CL)	0.80
1/2"	H2P0.50CL	12.7mm	6.4mm	200'	25'	Clear (CL)	1.10
5/8"	H2P0.63CL	15.9mm	7.9mm	200'	25'	Clear (CL)	1.16
3/4"	H2P0.75CL	19.1mm	9.5mm	200'	25'	Clear (CL)	1.90
1"	H2P1.00CL	25.4mm	12.7mm	200'	25'	Clear (CL)	3.00
2"	H2P2.00CL	50.8mm	25.4mm	100'	25'	Clear (CL)	

Stays clear when shrunk.

800 323-5140
www.techflex.com

*Contact your Account Representative for heatshrink cutting & printing services.

4/1 POLYOLEFIN

- **Shrink Temperature**
194°F (90°C)
- **Versatile And Economical**
Termination Solution
- **Resists Common**
Automotive Chemicals
- **Easily Installs Over**
Connectors And Splices
- **Custom Printing**
Available

Nominal Size	Part #	Unshrunk Diameter /mm	Shrunk Diameter /mm	Put-Ups		Available Colors	Lbs/ 100'
				Bulk Spool	Shop Spool		
1/2"	H4N0.50BK	12.0	3.0	200'	25'	Black (BK)	1.17
3/4"	H4N0.75BK	19.0	4.5	200'	25'	Black (BK)	2.75
1"	H4N1.00BK	25.4	7.0	200'	25'	Black (BK)	3.25
1 1/4"	H4N1.25BK	32.0	8.0	200'	25'	Black (BK)	4.00
1 1/2"	H4N1.50BK	38.0	9.5	200'	25'	Black (BK)	4.25



Cut Cleanly
Scissor

Material
Polyolefin

Grade
H4N

Economical 4/1 Heatshrink Tubing Shrinks To 1/4 its original diameter!

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 Techflex Heatshrink Tubing a perfect solution for any termination application.

4/1 Heatshrink Tubing is the most versatile of the heatshrink products. The high shrink ratio ensures that the tubing will slip over large connectors or plugs and still provide a tight, professional seal.

Colors Available:
Black (BK)

Match the color of braided sleeving with our 4/1 Shrinkflex tubing and create a unified finished look.



TECHFLEX
Braided Sleeving Products

www.techflex.com

800.323.5140 • 973.300.9242 • fax: 973.300.9409
29 Brookfield Dr • Sparta, NJ 07871

VW-1



4/1 POLYOLEFIN



Moisture Absorption % ASTM D-570 _____ 0.5
Flammability Rating _____ UL 224, VW-1



Chemical Resistance

Corrosion ASTM DTL-23053 _____ No Corrosion
Fluid Resistance (23°C/73°F, 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

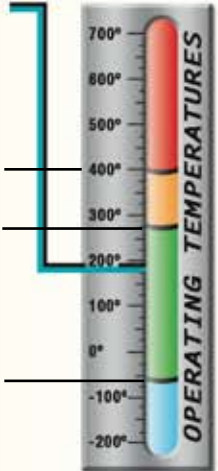
torch with an appropriate attachment. Keep the heat source far enough away so that hot metal or direct flame does not come in contact with the tubing, wires or sleeving. Move the heat around the bundle to prevent damaging the sleeving and to ensure that all areas of the tubing have been shrunk. Once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

Shrinks
194°F (90°C)

Melt Point
ASTM D-2117
392°F (200°C)

Maximum Continuous
MIL-I-23053
275°F (135°C)

Minimum Continuous
-67°F (-55°C)



PHYSICAL PROPERTIES

Recommended Cutting _____ Scissors

Stock Colors _____ 1

Tensile Strength PSI ASTM D-638 _____ 1,500

Elongation % ASTM D-638 _____ 200

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-882 _____ 25,000

Longitudinal Change % MIL-DTL-23053 _____ ±5

Dielectric Strength (volts/mil) ASTM D-87 _____ 500

Volume Resistivity (ohm-cm) ASTM D-876 _____ 1.0 x 10¹⁴

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