

# Heat Shrink Tubing

HEAT SHRINK

## Precut Heat Shrink Tubing



Adhesive lined heat shrink in precut lengths of 3/4 and 1 1/2 inches.

3 to 1 shrink ratio is ideal for sealing battery cable ends against corrosion.



### Medium Duty Precut Adhesive Heat Shrink

Part Number	Color	Diameter	Length	Wire Sizes
HS-0375-RD-.75	Red	3/8"	3/4"	8 – 1 AWG
HS-0375-BK-.75	Black	3/8"	3/4"	8 – 1 AWG
HS-0500-RD-1.5	Red	1/2"	1 1/2"	8 – 1 AWG
HS-0500-BK-1.5	Black	1/2"	1 1/2"	8 – 1 AWG
HSRED	Red	3/4"	1 1/2"	8 – 1 AWG
HSBLK	Black	3/4"	1 1/2"	8 – 1 AWG
HSRED-1	Red	1"	1 1/2"	1/0 – 4/0 AWG
HSBLK-1	Black	1"	1 1/2"	1/0 – 4/0 AWG

### Heavy Duty Precut Adhesive Heat Shrink

Part Number	Color	Diameter	Length	Wire Sizes
HSREDHD	Red	3/4"	1 1/2"	8 – 1 AWG
HSBLKHD	Black	3/4"	1 1/2"	8 – 1 AWG
HSREDHD-1	Red	1"	1 1/2"	1/0 – 4/0 AWG
HSBLKHD-1	Black	1"	1 1/2"	1/0 – 4/0 AWG

3 to 1  
shrink  
ratio



**RoHS**  
compliant



-55°C TO 110°C

# Heavy Wall Heat Shrink Tubing

Heavy wall adhesive lined heat shrink tubing is impact, abrasion, corrosion, and chemical resistant. Provides mechanical protection, insulation and strain relief for electrical connections and components.

## Features

- 4-foot lengths\*
- Adhesive lined crosslinked polyolefin
- Seals out water and dirt
- High 3 to 1 shrink ratio
- Halogen Free
- SAE, REACH, RoHS compliant
- -55°C to 110°C continuous operating temperature
- 120°C shrink temperature

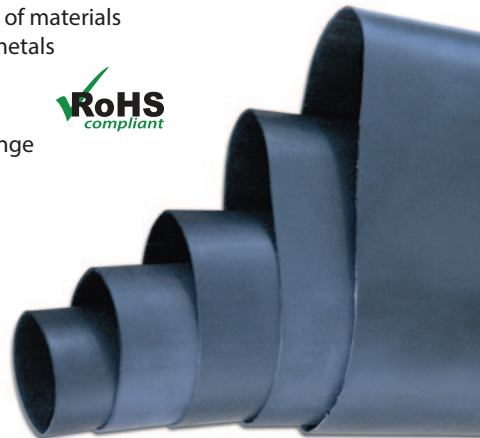
## Applications

- Ideal for insulation of electrical splices, cable terminations, and electrical connections
- Adhesive liner bonds to a variety of materials including plastics, rubbers, and metals
- Seals and protects components from moisture and corrosion
- 3:1 shrink ratio covers a broad range of applications in fewer sizes

## Approvals and Compliance

- VW1 Flame Retardant
- RoHS Compliant
- Halogen Free
- UL 224
- SAE
- REACH

-55°C TO 110°C



## Technical Data

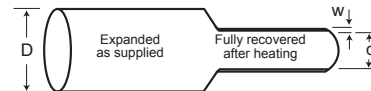
PROPERTY	TYPICAL VALUE
Shrink Ratio	>3 to 1
Operating Temperature	-55°C ~ 125°C
Tensile Strength	14.5 MPa
Ultimate Elongation	≥450%
Tensile Strength After Aging	13.5 MPa
Ultimate Elongation After Aging	400%
Concentricity	70
Longitudinal Shrinkage	5
Dielectric Strength	≥21kV/mm
Cracking Resistance	No Cracking
<b>ADHESIVE</b>	
Water Absorptivity	0.15%
Softening Point	85°C
Peel Strength	8N/25mm
Copper Stability	Pass
Antibacterial Property	Pass

## Sizes for Arctic Ultraflex Blue® Wire

AUF WIRE GAUGE	AUF WIRE DIAMETER	RECOMMENDED HD SHRINK SIZE
18 AWG	0.105"	1/3"
16 AWG	0.118"	1/3"
14 AWG	0.130"	1/3"
12 AWG	0.150"	1/3"
10 AWG	0.180"	1/3"
8 AWG	0.240"	1/2"
6 AWG	0.310"	3/4"
4 AWG	0.360"	3/4"
2 AWG	0.430"	3/4"
1 AWG	0.495"	3/4"
1/0 AWG	0.550"	3/4"
2/0 AWG	0.600"	1"
3/0 AWG	0.650"	1"
4/0 AWG	0.710"	1 1/2"
250 MCM	0.875"	1 1/2"
350 MCM	1.010"	2"
500 MCM	1.220"	2"

## 48" Heavy Wall Adhesive Lined Crosslinked Polyolefin Heat Shrink\*

Heavy Wall Shrink Size	Part Number BLACK	Part Number RED	Expanded Min. Internal Diameter (D)		Recovered Max. Internal Diameter (d)		Recovered Nominal Wall Thickness (w)	
			IN.	MM	IN.	MM	IN.	MM
1/3"	HSHD-0350-BK	HSHD-0350-RD	0.35	9.0	0.12	3.0	0.08	2.0
1/2"	HSHD-0500-BK	HSHD-0500-RD	0.51	13.0	0.16	4.0	0.09	2.4
3/4"	HSHD-0750-BK	HSHD-0750-RD	0.75	19.0	0.20	5.0	0.10	2.5
1"	HSHD-1100-BK	HSHD-1100-RD	1.30	33.0	0.31	8.0	0.13	3.2
1 1/2"	HSHD-1500-BK	HSHD-1500-RD	1.57	40.0	0.47	12.0	0.16	4.0
2"	HSHD-2000-BK	-	2.17	55.0	0.63	16.0	0.16	4.0
2 3/4"	HSHD-2700-BK	-	2.95	75.0	0.87	22.0	0.16	4.0
3 1/2"	HSHD-3500-BK	-	3.74	95.0	1.18	30.0	0.17	4.2
4 1/2"	HSHD-4700-BK	-	4.53	115.0	1.34	34.0	0.17	4.2



## Ordering Guidelines

Our 3:1 ratio shrink is ideal for covering both regular and irregular shapes. For the best balance of recovered wall thickness and adhesive sealant performance, choose a size with an expanded diameter (D) that is about twice the largest diameter of the part to be covered.

**\*To significantly reduce shipping cost, 48" heavy wall heat shrink is shipped as four 1 foot lengths**

# Heat Shrink Tubing Heat Shrink Variety Packages

HEAT SHRINK

## Dual Wall Heat Shrink Tubing

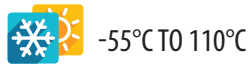
Dual wall adhesive lined heat shrink tubing with environmental sealing capability is ideal for a variety of applications including automotive and marine wire harness bundles, industrial splices, breakouts, and connector to cable transitions.

### Features

- Flame retardant and flexible
- Superior sealing against water and contaminants
- High 3 to 1 shrink ratio allows for coverage of irregularly shaped connectors and components
- Inner adhesive bonds to plastics, rubber, copper, steel, neoprene, and polyethylene
- Shrink temperature: 120°C
- Continuous operating temperature: -55°C to 110°C

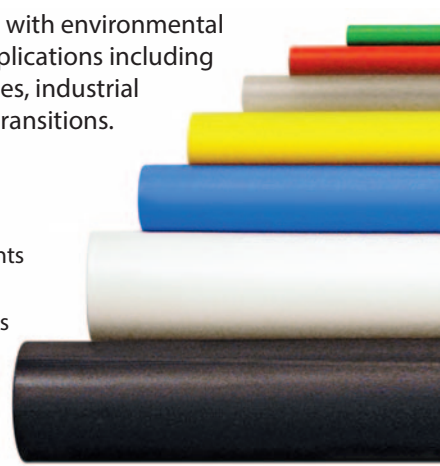
### Applications

- Industrial, electronic, and automotive OEM approvals
- Environmental sealing and strain relief of connectors and terminals
- Moisture sealing and electrical insulation of simple inline splices
- Abrasion resistance for tubes and pipes
- Repair of damaged wire harnesses



### Ordering Guidelines

Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.



### 48" Cut Length

Part Number	Diameter	Color
HS-0125-BK-48	1/8"	Black
HS-0125-CL-48	1/8"	Clear
HS-0125-RD-48	1/8"	Red
HS-0187-BK-48	3/16"	Black
HS-0187-BL-48	3/16"	Blue
HS-0187-CL-48	3/16"	Clear
HS-0187-GR-48	3/16"	Green
HS-0187-RD-48	3/16"	Red
HS-0187-WT-48	3/16"	White
HS-0187-YL-48	3/16"	Yellow
HS-0250-BK-48	1/4"	Black
HS-0250-BN-48	1/4"	Brown*
HS-0250-OR-48	1/4"	Orange*
HS-0250-BL-48	1/4"	Blue
HS-0250-CL-48	1/4"	Clear
HS-0250-GR-48	1/4"	Green
HS-0250-RD-48	1/4"	Red
HS-0250-WT-48	1/4"	White
HS-0250-YL-48	1/4"	Yellow

### 12" Cut Length

Part Number	Diameter	Color
HS-0125-BK-12	1/8"	Black
HS-0125-CL-12	1/8"	Clear
HS-0125-RD-12	1/8"	Red
HS-0187-BK-12	3/16"	Black
HS-0187-CL-12	3/16"	Clear
HS-0187-RD-12	3/16"	Red
HS-0250-BK-12	1/4"	Black
HS-0250-CL-12	1/4"	Clear
HS-0250-RD-12	1/4"	Red
HS-0375-BK-12	3/8"	Black
HS-0375-CL-12	3/8"	Clear
HS-0375-RD-12	3/8"	Red
HS-0500-BK-12	1/2"	Black
HS-0500-CL-12	1/2"	Clear
HS-0500-RD-12	1/2"	Red
HS-0750-BK-12	3/4"	Black
HS-0750-CL-12	3/4"	Clear
HS-0750-RD-12	3/4"	Red
HS-1000-BK-12	1"	Black
HS-1000-CL-12	1"	Clear
HS-1000-RD-12	1"	Red
HS-0375-BK-48	3/8"	Black
HS-0375-BL-48	3/8"	Blue
HS-0375-CL-48	3/8"	Clear
HS-0375-GR-48	3/8"	Green
HS-0375-RD-48	3/8"	Red
HS-0375-WT-48	3/8"	White
HS-0375-YL-48	3/8"	Yellow
HS-0500-BK-48	1/2"	Black
HS-0500-BL-48	1/2"	Blue
HS-0500-CL-48	1/2"	Clear
HS-0500-GR-48	1/2"	Green
HS-0500-RD-48	1/2"	Red
HS-0500-WT-48	1/2"	White
HS-0500-YL-48	1/2"	Yellow
HS-0750-BK-48	3/4"	Black
HS-0750-BL-48	3/4"	Blue
HS-0750-CL-48	3/4"	Clear
HS-0750-GR-48	3/4"	Green
HS-0750-RD-48	3/4"	Red
HS-0750-WT-48	3/4"	White
HS-0750-YL-48	3/4"	Yellow
HS-1000-BK-48	1"	Black
HS-1000-BL-48	1"	Blue
HS-1000-CL-48	1"	Clear
HS-1000-GR-48	1"	Green
HS-1000-RD-48	1"	Red
HS-1000-WT-48	1"	White
HS-1000-YL-48	1"	Yellow

### Dual Wall Adhesive Lined Crosslinked Polyolefin\*

Part Number	Size	AS SUPPLIED				AFTER RECOVERY				Standard Lengths		
		Minimum Inside Diameter (D)		Nominal Wall Thickness		Maximum Inside Diameter (d)		Total Nominal Wall Thickness (w)			Nominal Adhesive Wall	
		in.	mm	in.	mm	in.	mm	in.	mm		in.	mm
HS-0125	1/8"	0.126	3.2	0.016	0.40	0.039	1.0	0.033	0.85	0.014	0.35	12, 48
HS-0187	1/16"	0.185	4.7	0.016	0.40	0.059	1.5	0.041	1.05	0.018	0.45	12, 48
HS-0250	1/4"	0.252	6.4	0.018	0.45	0.079	2.0	0.043	1.10	0.018	0.45	12, 48
HS-0375	3/8"	0.370	9.4	0.024	0.60	0.118	3.0	0.057	1.45	0.018	0.45	12, 48
HS-0500	1/2"	0.500	12.7	0.024	0.60	0.157	4.0	0.059	1.50	0.018	0.45	12, 48
HS-0750	3/4"	0.748	19.0	0.030	0.75	0.236	6.0	0.079	2.00	0.026	0.65	12, 48
HS-1000	1"	0.992	25.2	0.030	0.75	0.331	8.4	0.079	2.00	0.026	0.65	12, 48
HS-1250	1 1/4"	1.181	30.0	0.031	0.80	0.394	10.0	0.087	2.20	0.030	0.75	48
HS1500	1 1/2"	1.570	39.9	0.033	0.85	0.593	13.7	0.098	2.50	0.039	1.00	48
HS-1250-BK-48	1 1/4"											Black
HS-1250-RD-48	1 1/4"											Red
HS-1500-BK-48	1 1/2"											Black
HS-1500-BL-48	1 1/2"											Blue
HS-1500-CL-48	1 1/2"											Clear
HS-1500-GR-48	1 1/2"											Green
HS-1500-RD-48	1 1/2"											Red
HS-1500-WT-48	1 1/2"											White
HS-1500-YL-48	1 1/2"											Yellow

\*Special Order



Heat Shrink Service Kits available — see page 90



## Dual Wall Heat Shrink Packs

3 to 1 ratio adhesive lined heat shrink packaged in a variety of sizes of red or black, or by size in a mix of colors.



### Various Sizes

- 10 pieces in 12" lengths
- 2 each of 1/8", 1/4", 3/8", 1/2", 3/4"



### Mixed Colors

- 10 pieces in 12" lengths
- 2 each of black, red, and clear
- 1 each of yellow, green, blue, white



-55°C TO 110°C

## Heavy Wall Shrink Packs

### Dual Wall Size Variety Packs

Part Number	Diameter Mix	Color
HS-BLACK-PKG	1/8" to 3/4"	● Black
HS-RED-PKG	1/8" to 3/4"	● Red

### Dual Wall Color Mix Packs

Part Number	Diameter	Color Mix
HS-250-PKG	1/4"	● Black
HS-375-PKG	3/8"	○ White
HS-500-PKG	1/2"	● Red
HS-750-PKG	3/4"	● Green
		○ Clear
		● Blue
		● Yellow

3 to 1 ratio heavy duty adhesive lined shrink in various sizes of red or black, or in single size, 2-color packages.

### Various Sizes

- 10 pieces in 12" lengths
- 3 each of 1/3", 1/2", and 3/4"
- 1 of 1"



### 2-Color Black/Red Packs

- 4 pieces in 12" lengths
- 2 red and 2 black



-55°C TO 110°C

### Heavy Wall Size Variety Packs

Part Number	Diameter Mix	Color
HSHD-BLACK-PKG	1/3" to 1"	● Black
HSHD-RED-PKG	1/3" to 1"	● Red

### Heavy Wall Black/Red Packs

Part Number	Diameter	Color Mix
HSHD-350-PKG	1/3"	● Black
HSHD-500-PKG	1/2"	● Red
HSHD-750-PKG	3/4"	
HSHD-1100-PKG	1"	

## Mixed Precut Shrink Pack

### Precut Mix

- 3/4" x 1 1/2" medium duty: 10 black and 10 red
- 3/4" x 1 1/2" heavy duty: 6 black and 6 red
- 1" x 1 1/2" heavy duty: 6 black and 6 red
- 2" x 2" heavy duty: 2 black and 2 red
- 1 1/2" x 1 1/2" heavy duty: 4 pieces white

### Precut Size and Color Mix Pack

Part Number	Diameter Mix	Color Mix
HSHD-1.5-PKG	3/4" to 2"	● Black
		● Red
		○ White



### Custom Heat Shrink Variety Packs

Need specific types, colors, or sizes? We configure custom variety packs with the shrinks you use most. Give us a call!