



Part Number HS2

Header HS2 Commercial Grade Polyolefin Heat Shrink Tubing

Description Wire-Run HS2 is our most popular series of heat shrink tubing and an excellent choice for many general and commercial applications. Economically priced, HS2 is very flexible, halogen free, flame retardant tubing made from a special blend of cross-linked polyolefin. Typical applications include strain relief of wire connectors; identifies or color codes wire and terminals; electrically insulates components, terminals and wire splices. HS2 is resistant to common fluids and solvents and has a shrink temperature rating of 90 degrees C (194 degrees F).

Agency Approval & Compliance UL, CUL, RoHS, Halogen Free, Flame Retardant, FMark, UL224, REACH, VW1

Application HS2 heat shrink tubing is free of Pb, Cd, Hg, Cr+6, PBB and PBDE. HS2 can be used in any enclosed area where a flame-retardant, halogen-free environment is required, such as metro, skyscrapers, mass transit vehicles and ships.

Shrink Ratio and Operating Temperature HS2 has a 2:1 shrink ratio and when fully recovered, the 2:1 material will shrink to one half (50%) of its original supplied diameter.

HS2 has a continuous operating temperature rating of -55 degrees C (-67 degrees F) and 125 degrees C (257 degrees F).

Standard Sizes and Dimension



Size (mm)	As Supplied (mm)		After Recovery (mm)	
	Inside Diameter (D)	Wall thickness (T)	Inside Diameter (d)	Wall thickness (t)
Φ1.2	1.5+0.2/-0.1	0.18±0.05	≤0.60	0.36±0.08
Φ1.6	2.1+0.2/-0.1	0.18±0.05	≤0.80	0.36±0.08
Φ2.4	2.5+0.2/-0.1	0.22±0.05	≤1.00	0.42±0.08
Φ3.2	3.5+0.2/-0.1	0.22±0.05	≤1.50	0.46±0.08
Φ4.8	5.0+0.2/-0.1	0.23±0.05	≤2.25	0.46±0.08
Φ6.4	6.5+0.2/-0.1	0.25±0.05	≤3.00	0.55±0.10
Φ9.5	10.5+0.3/-0.1	0.28±0.06	≤5.00	0.58±0.10
Φ12.7	13.5+0.3/-0.1	0.28±0.06	≤6.50	0.58±0.10
Φ19.1	20.6+0.5/-0.2	0.32±0.08	≤10.0	0.68±0.10
Φ25.4	25.6+0.7/-0.2	0.40±0.10	≤12.5	0.78±0.12
Φ31.8	30.6+0.7/-0.2	0.40±0.10	≤15.0	0.82±0.12
Φ38.1	41.0±0.5	0.50±0.12	≤20.0	1.00±0.15
Φ50.8	51.0±0.5	0.55±0.15	≤25.0	1.10±0.15
Φ76.2	81.0±1.0	0.60±0.15	≤40.0	1.25±0.20
Φ101.6	101.0±1.0	0.60±0.15	≤50.0	1.25±0.20

Typical Properties

Item	Specifications
Shrink Temperature (°C)	120-150
Temperature Range (°C)	125
Radial Shrinking Ratio (%)	≥50
Longitudinal Change (%)	≤5
Tensile Strength (MPa)	≥10.4
Ultimate Elongation (%)	≥200
Aging in Circulating-air Oven	158.0±1.0°C, 168hrs
Tensile Strength (MPa) - After Aging	≥7.3
Ultimate Elongation (%) - After Aging	≥100
Dielectric Voltage Withstand (V)	600
Volume Resistivity (Ω.cm)	≥10 ¹⁴ sup>
Dielectric Voltage (V) AC	AC2500V-60S, No breakdown
Dielectric Strength (kV/mm)	≤15
Flammability	VW-1
Concentricity (%)	≥65
Heat Shock	4 hr@250.0 ±1.0°C, No cracking
Cold Shock	1 hr@-30.0 ±1.0°C, No cracking
Copper Corrosion	24Hr@95%±5, 2°C, No cracking or fading
Dielectric Strength (@1min, AC2500V)	

Availability Four-foot lengths, One hundred foot mini reels, master reels and cut pieces. Available in black and various colors

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Part Number HS3

Header HS3 Commercial Grade Polyolefin Heat Shrink Tubing

Description Wire-Run’s HS3 higher shrink ratio accommodates irregular shapes and a wide range of bundle diameters. HS3 is a very flexible, halogen free, flame-retardant polyolefin tubing used in many general and commercial applications. Typical usages include strain relief of wire connectors; identifies or color codes wire and terminals; electrically insulates components, terminals and wire splices. HS3 is resistant to common fluids and solvents, HS3 has a shrink temperature rating of 90 degrees C (194 degrees F).

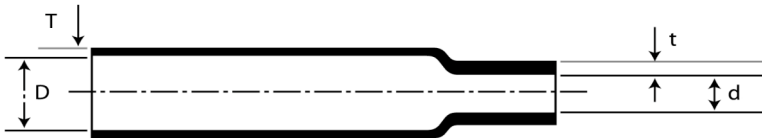
Agency Approval & Compliance UL, CUL, ROHS, Halogen free, Flame Retardant, FMark, UL224, REACH, VW1

Application HS3 heat shrink tubing is free of Pb, Cd, Hg, Cr+6, PBB and PBDE. HS3 can be used in any enclosed area where a flame-retardant, halogen-free environment is required, such as metro, skyscrapers, mass transit vehicles and ships.

Shrink Ratio and Operating Temperature HS3 has a 3:1 shrink ratio and when fully recovered, the 3:1 material will shrink to one third (33%) of its original supplied diameter.

HS3 has a continuous operating temperature rating of -55 degrees C (-67 degrees F) and 125 degrees C (257 degrees F)

Standard Sizes and Dimension



Size (inch)	Size (mm)	As Supplied (mm)		After Recovery (mm)	
		Min. Inside Diameter (D)	Nominal Wall-thickness (T)	Max. Inside Diameter (d)	Wall-thickness (t)
1/16"	Φ1.5/0.5	1.5	0.18	0.5	0.40±0.10
1/8"	Φ3.0/1.0	3	0.2	1	0.55±0.12
3/16"	Φ4.5/1.5	4.5	0.2	1.5	0.55±0.12
1/4"	Φ6.0/2.0	6	0.22	2	0.60±0.12
3/8"	Φ9.0/3.0	9	0.25	3	0.70±0.15
1/2"	Φ12.0/4.0	12	0.25	4	0.70±0.15
3/4"	Φ20.0/6.7	20	0.3	6.7	0.80±0.15
1"	Φ24.0/8.0	24	0.36	8	1.00±0.15
1-1/2"	Φ39.0/13.0	39	0.45	13	1.25±0.20

Typical Properties

Item	Specifications
Shrink Temperature (°C)	100 ~ 140
Temperature Range (°C)	125
Radial Shrinking Ratio (%)	3:1

Longitudinal Change (%)	≤15
Tensile Strength (MPa)	≥10.4
Ultimate Elongation (%)	≥200
Aging in Circulating-air Oven	158.0±1.0°C, 168hrs
Tensile Strength (MPa) - After Aging	≥7.3
Ultimate Elongation (%) - After Aging	≥100
Dielectric Voltage Withstand (V)	600
Volume Resistivity (Ω.cm)	≥10 ¹⁴
Dielectric Voltage (V) AC	
Dielectric Strength (kV/mm)	≥15
Flammability	VW-1
Concentricity (%)	≥70
Heat Shock	
Cold Shock	

Availability Four-foot lengths, master reels and cut pieces, comes in black and various colors

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Part Number HS3A/HS4A

Header HS3A/HS4A 3X/4X Adhesive-Lined Dual Wall Heat Shrink

Description HS3A/HS4A are adhesive-lined, flexible, halogen free and flame-retardant polyolefin heat-shrinkable dual wall tubing. This tubing has good mechanical strength, which can protect from fluids, moisture and corrosion. HS3A/HS4A are used in a wide variety of electrical applications, including back end connector sealing, breakouts, and connector-to-cable transitions. A high expansion ratio makes it possible to repair most damaged cable jackets without removing connectors. The product is UL recognized and the file No is E180908.

Agency Approval & Compliance UL, CUL, ROHS, Halogen Free, Flame Retardant, F Mark, UL224, REACH, VW1

Application HS3A/HS4A series of tubing can be used in a variety of applications where environmental issues are a concern. The adhesive lining provides an excellent barrier to moisture and is good choice of material for repairing cables, covering components and other electronic/electrical connections in harsh weather conditions.

Shrink Ratio and Operating Temperature HS3A/HS4A series is available in 3:1 and 4:1 shrink ratios. When fully recovered, the 3:1 material will shrink to one third (33.3%) of its original supplied diameter and the 4X material will shrink to one quarter (25%) of its original supplied diameter. The tubing's wall thickness will also change proportionally to the degree of recovery.

Operating temperature range is from -55 degree C to 125 degrees C (-67 degrees F to 257 degrees F) and the minimum shrink temperature is 110 degree C (230 degrees F)

Standard Sizes and Dimension



HS3A (3X)					
Size	As Supplied			After Recovery	
(Inch)	Min ID (mm)	Nominal Wall (mm)	Max ID (mm)	Total Wall (mm)	Nominal Adhesive Wall (mm)
1/8	3.6±0.4	0.40±0.15	1	0.85±0.25	0.35±0.10
3/16	5.1±0.4	0.40±0.15	1.5	1.05±0.25	0.45±0.10
1/4	6.9±0.5	0.45±0.15	2	1.10±0.25	0.45±0.10
3/8	9.9±0.5	0.60±0.20	3	1.45±0.25	0.45±0.10
1/2	13.3±0.6	0.60±0.20	4	1.50±0.35	0.45±0.15
3/4	19.7±0.7	0.75±0.25	6	2.00±0.45	0.65±0.20
1	25.9±0.7	0.75±0.25	8.4	2.00±0.55	0.65±0.20
1 1/2	41.0±1.0	0.85±0.35	13.7	2.50±0.55	1.00±0.25

HS4A (4X)					
Size	As Supplied			After Recovery	
(Inch)	Min ID (mm)	Nominal Wall (mm)	Max ID (mm)	Total Wall (mm)	Nominal Adhesive Wall (mm)
3/16"	4	0.4	1	1.00±0.28	0.5
5/16"	8	0.4	2	1.10±0.28	0.5
1/2"	12	0.5	3	1.40±0.28	0.61
3/4"	19	0.6	4.8	2.00±0.55	0.76
1"	24	0.75	6	2.25±0.55	0.76
1-1/4"	32	0.8	8	2.54±0.55	1.02

2"	52	0.8	13	2.60±0.55	1.02
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Specifications

Item	Specifications
Shrink Temperature (°C)	110
Operating Temperature Range (°C)	-55—125
Tensile Strength (Mpa)	≥10.4
Dielectric Voltage Withstand (v)	600
Ultimate Elongation (%)	≥200
Radial shrinking ratio (%)	≥50
Longitudinal Change (%)	≤15
Aging in Circulating-air Oven	158.0±1.0°C, 168hrs
After aging - Tensile Strength (Mpa)	≥7.3
After aging - Ultimate Elongation (%)	≥100
Dielectric Strength kV/mm	≥15.0
Volume Resistivity (Ω cm)	≥10 ¹³
Flammability	VW-1
Water Absorption (%)	Less than 0.4%
Fluid Resistance	Excellent
(Copper Corrosion)	
Softening Point (°C)	85±5°C
Peel Strength (N/25mm)	>80

Availability Four-foot lengths, master reels and cut pieces. Available in black and various colors

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Part Number HS4

Header HS4 Over Expanded Commercial Grade Polyolefin Heat Shrink Tubing

Description Wire-Run HS4 is an excellent choice for many special applications where an over expanded material is required. HS4 is flexible, halogen free, flame retardant tubing manufactured from a special blend of cross-linked polyolefin and is recommended for applications including cable repair or when insulation is required for assemblies that have oversized components or connectors. HS4 higher shrink ratios accommodate irregular shapes and a wide range of bundle diameters without a large degree of longitudinal change. Resistant to common fluids and solvents, HS4 has a shrink temperature rating of 90 degrees C (194 degrees F).

Agency Approval & Compliance

Application HS4 heat shrink tubing is free of Pb, Cd, Hg, Cr+6, PBB and PBDE. HS4 can be used in any enclosed area where a flame-retardant, halogen-free environment is required, such as metro, skyscrapers, mass transit vehicles and ships.

Shrink Ratio and Operating Temperature HS4 has a 4:1 shrink ratio and when fully recovered, the 4:1 material will shrink to one third (25%) of its original supplied diameter.

HS4 has a continuous operating temperature rating of -55 degrees C (-67 degrees F) and 125 degrees C (257 degrees F)

Standard Sizes and Dimension



Specifications

Size (inch)	Size (mm)	As Supplied (mm)		After Recovery (mm)	
		Min. Inside Diameter (D)	Nominal Wall-thickness (T)	Max. Inside Diameter (d)	Wall-thickness (t)
1/2"	Φ12.0/3.0	12.5±0.5	0.30±0.15	3	1.00±0.15
3/4"	Φ20.0/5.0	20.5±0.5	0.30±0.15	5	1.00±0.15
1"	Φ25.0/6.25	25.5±0.5	0.40±0.20	6.25	1.40±0.20

Typical Properties

Item	Specifications
Shrink Temperature (°C)	100 ~ 140
Temperature Range (°C)	125
Radial Shrinking Ratio (%)	4:1
Longitudinal Change (%)	≤15
Tensile Strength (MPa)	≥10.4
Ultimate Elongation (%)	≥200
Aging in Circulating-air Oven	158.0±1.0°C, 168hrs

Tensile Strength (MPa) - After Aging	≥7.3
Ultimate Elongation (%) - After Aging	≥100
Dielectric Voltage Withstand (V)	600
Volume Resistivity (Ω.cm)	≥10 ¹⁴
Dielectric Voltage (V) AC	
Dielectric Strength (kV/mm)	≥15
Flammability	VW-1
Concentricity (%)	≥70
Heat Shock	
Cold Shock	

Availability Four-foot lengths, master reels and cut pieces, Available in black and various colors

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Part Number NSPA-HST6

Header NSPA-HST6 Adhesive-Lined Dual Wall Heat Shrink

Description NSPA-HST6 is a high shrink ratio, heavy wall irradiated polyolefin heat shrink tubing with an adhesive liner that provides excellent mechanical protection to cable joints and terminations. When heated to a minimum of 120 degree C (248 degrees F), NSPA-HST6 will begin to shrink and the adhesive will flow freely around the substrate. The adhesive will bond to a variety of materials including metals, plastics and rubbers. Once cooled, the adhesive will solidify and provide an excellent barrier against moisture.

Agency Approval & Compliance ROHS, SAE, Halogen Free, Flame Retardant, UL224, REACH, VW1

Application NSPA-HST6 series of tubing can be used in a variety of applications where extreme differences in size exist between cables, connectors and components. NSPA-HST6 high shrink ratios allows for a close fit on a wide variety of irregular shapes and configurations

Shrink Ratio and Operating Temperature NSPA-HST6 has a 6:1 shrink ratio. When fully recovered, the 6:1 material will shrink to sixteen percent (16%) of its original supplied diameter. The tubing's wall thickness will also change proportionally to the degree of recovery.

Operating temperature range is from -55 degree C to 110 degrees C (-67 degrees F to 230 degrees F) and the minimum shrink temperature is 120 degree C (248 degrees F)

Standard Sizes and Dimension



Size (inches)	Size (mm)	As supplied	Recovered		Shape/Style	Std Length (mm)
		(D) Inside Dia. (mm, Min.)	(d) Inside Dia. (mm, Max.)	(T) Wall thickness (mm, Min.)		
3/4"	19.0/3.2	19	3.2	3.2	O	1000-1220
1-3/8"	33.0/5.5	33	5.5	3.4	O	1000-1220
1-3/4"	44.4/7.7	44.4	7.4	3.6	O	1000-1220
2"	50.8/8.3	50.8	8.3	4.3	O	1000-1220
3"	88.9/17.1	88.9	17.1	4.7	O	1000-1220
4"	119.4/22.9	119.4	22.9	4.7	O	1000-1220

Technical Data

Property	Test Method	Typical Data
Tensile strength	ASTM D2671	≥14MPa
Elongation at break	ASTM D2671	≥400%
Elongation at break after aging	ASTM D2671/150°C, 168hrs	≥300%
Density	ASTM D792	1.05g/cm ³
Eccentricity	ASTM D2671	< 30%
Longitudinal shrinkage	UL224	0-10%

Dielectric strength	IEC243	≥20kV/mm
Volume resistivity	IEC93	≥10 ¹⁴ Ω·cm
Copper stability	ASTM D2671	Pass
Water absorptivity	ISO 62/23°C, 14days	<0.15%
Adhesive		
Water absorptivity	ISO 62	<0.2%
Softening Point	ASTM-E28	85°C
Peel Strength (PE)	DIN 30672	4N/cm
Copper stability	ASTM D2671	Non-corrosive
Resistance to fungus and decay	ISO 846	Pass

Availability Four-foot lengths, and cut pieces. Available in various colors

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Part Number HS2-F

Header HS2-F Heat Shrinkable Braided Tubing

Description HS2-F is halogen free, flexible flame-retardant braided cloth fiber heat shrink tubing that combines the protection of braided sleeving with the conforming and bundling abilities of heat shrink tubing. Its woven material provides protection from cuts and chafing, as well as temperature resistance and vibration and noise suppression. An excellent choice for automotive as well as industrial applications, this product protects, conforms and looks great. HS2-F has a shrink temperature rating of 110 degrees C (230 degrees F).

Agency Approval & Compliance RoHS, Halogen Free, Flame Retardant, REACH, VW1

Application HS2-F heat shrinkable braided tubing provides outstanding mechanical abrasion protection for components such as rubber hoses, plastic pipes and harness wiring bundles.

Shrink Ratio and Operating Temperature HS2-F has a 2:1 shrink ratio and when fully recovered, the 2:1 material will shrink to one half (50%) of its original supplied diameter.

HS2-F has a continuous operating temperature rating of -40 degrees C (-40 degrees F) and 125 degrees C (257 degrees F).

Standard Sizes and Dimension



Size (inches)	Size (mm)	As Supplied (mm)		After Recovery (mm)	
		Inside Diameter (D)	Wall thickness (T)	Inside Diameter (d)	Wall thickness (t)
1/2"	Φ12	12.5+0.3/-0.1	0.28±0.06	≤6.00	0.58±0.10
7/8"	Φ20	20.6+0.5/-0.2	0.32±0.08	≤10.0	0.68±0.10
1 3/16"	Φ30	30.6+0.7/-0.2	0.40±0.10	≤15.0	0.82±0.12
1 1/2"	Φ40	41.0±0.5	0.50±0.12	≤20.0	1.00±0.15
2"	Φ50	51.0±0.5	0.55±0.15	≤25.0	1.10±0.15

Typical Properties

Item	Specifications
Shrink Temperature (°C)	120-150
Temperature Range (°C)	125
Radial Shrinking Ratio (%)	≥50
Longitudinal Change (%)	≤5
Tensile Strength (MPa)	≥10.4
Ultimate Elongation (%)	≥200
Aging in Circulating-air Oven	158.0±1.0°C, 168hrs
Tensile Strength (MPa) - After Aging	≥7.3
Ultimate Elongation (%) - After Aging	≥100
Dielectric Voltage Withstand (V)	600
Volume Resistivity (Ω.cm)	≥10 ¹⁴ sup>

Dielectric Voltage (V) AC	AC2500V-60S, No breakdown
Dielectric Strength (kV/mm)	≤15
Flammability	VW-1
Concentricity (%)	≥65
Heat Shock	4 hr@250.0 ±1.0°C, No cracking
Cold Shock	1 hr@-30.0 ±1.0°C, No cracking
Copper Corrosion	24Hr@95%±5, 2°C, No cracking or fading
Dielectric Strength (@1min, AC2500V)	

Availability cut pieces and master reels

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