



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)	Size (in)	As Supplied (mm)		After Recovery (mm)	
		Inside Diameter (D)	Wall thickness (T)	Inside Diameter (d)	Wall thickness (t)
Φ1.2	Φ 3/64	1.5+0.2/-0.1	0.18±0.05	≤0.60	0.36±0.08
Φ1.6	Φ 1/16	2.1+0.2/-0.1	0.18±0.05	≤0.80	0.36±0.08
Φ2.4	Φ 3/32	2.5+0.2/-0.1	0.22±0.05	≤1.00	0.42±0.08
Φ3.2	Φ 1.8	3.5+0.2/-0.1	0.22±0.05	≤1.50	0.46±0.08
Φ4.8	Φ 3/16	5.0+0.2/-0.1	0.23±0.05	≤2.25	0.46±0.08
Φ6.4	Φ 1/4	6.5+0.2/-0.1	0.25±0.05	≤3.00	0.55±0.10
Φ9.5	Φ 3/8	10.5+0.3/-0.1	0.28±0.06	≤5.00	0.58±0.10
Φ12.7	Φ 1/2	13.5+0.3/-0.1	0.28±0.06	≤6.50	0.58±0.10
Φ19.1	Φ 3/4	20.6+0.5/-0.2	0.32±0.08	≤10.0	0.68±0.10
Φ25.4	Φ 1	25.6+0.7/-0.2	0.40±0.10	≤12.5	0.78±0.12
Φ31.8	Φ 1 1/4	30.6+0.7/-0.2	0.40±0.10	≤15.0	0.82±0.12
Φ38.1	Φ 1 1/2	41.0±0.5	0.50±0.12	≤20.0	1.00±0.15
Φ50.8	Φ 2	51.0±0.5	0.55±0.15	≤25.0	1.10±0.15
Φ76.2	Φ 3	81.0±1.0	0.60±0.15	≤40.0	1.25±0.20
Φ101.6	Φ4.0	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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