

**Part Number** CB-HFT600 (HST Series)

**Header** Commercial Grade Polyolefin Heat Shrink Tubing

**Description** Thermosleeve-USA CB-HFT600 (HST SERIES) is our most popular series of heat shrink tubing and an excellent choice for many general and commercial applications. Economically priced, CB-HFT600 (HST SERIES) 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. CB-HFT600 (HST SERIES) is resistant to common fluids and solvents and has a shrink temperature rating of 90 degrees C (194 degrees F).

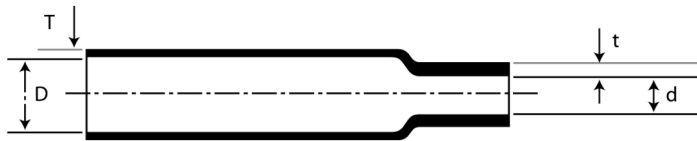
**Agency Approval & Compliance** UL, CUL, RoHS, Halogen Free, Flame Retardant, FMark, UL224, REACH, VW1

**Application** CB-HFT600 (HST SERIES) heat shrink tubing is free of Pb, Cd, Hg, Cr+6, PBB and PBDE. CB-HFT and 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** CB-HFT600 (HST SERIES) 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.

CB-HFT600 (HST SERIES) 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)
Φ0.7	1.0+0.2/-0.1	0.18±0.05	≤0.45	0.32±0.08
Φ0.8	1.2+0.2/-0.1	0.18±0.05	≤0.45	0.34±0.08
Φ1.0	1.5+0.2/-0.1	0.18±0.05	≤0.60	0.36±0.08
Φ1.5	2.1+0.2/-0.1	0.18±0.05	≤0.80	0.36±0.08
Φ2.0	2.5+0.2/-0.1	0.20±0.05	≤1.00	0.42±0.08
Φ2.5	3.0+0.2/-0.1	0.22±0.05	≤1.25	0.46±0.08
Φ3.0	3.5+0.2/-0.1	0.22±0.05	≤1.50	0.46±0.08
Φ3.5	4.0+0.2/-0.1	0.22±0.05	≤1.75	0.46±0.08
Φ4.0	4.6+0.2/-0.1	0.22±0.05	≤2.00	0.46±0.08
Φ4.5	5.0+0.2/-0.1	0.23±0.05	≤2.25	0.46±0.08
Φ5.0	5.5+0.2/-0.1	0.25±0.05	≤2.50	0.50±0.08
Φ5.5	6.0+0.2/-0.1	0.25±0.05	≤2.75	0.50±0.08
Φ6.0	6.5+0.2/-0.1	0.25±0.05	≤3.00	0.55±0.10
Φ6.5	6.9+0.2/-0.1	0.25±0.05	≤3.25	0.55±0.10
Φ7.0	7.5+0.2/-0.1	0.25±0.05	≤3.50	0.55±0.10
Φ8.0	8.5+0.2/-0.1	0.28±0.06	≤4.00	0.58±0.10
Φ9.0	9.5+0.2/-0.1	0.28±0.06	≤4.50	0.58±0.10
Φ10	10.5+0.3/-0.1	0.28±0.06	≤5.00	0.58±0.10
Φ11	11.5+0.3/-0.1	0.28±0.06	≤5.50	0.58±0.10
Φ12	12.5+0.3/-0.1	0.28±0.06	≤6.00	0.58±0.10

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Φ13	13.5+0.3/-0.1	0.28±0.06	≤6.50	0.58±0.10
Φ14	14.5+0.3/-0.1	0.28±0.06	≤7.00	0.58±0.10
Φ15	15.5+0.3/-0.1	0.28±0.06	≤7.50	0.58±0.10
Φ16	16.5+0.3/-0.1	0.28±0.06	≤8.00	0.58±0.10
Φ17	17.5+0.3/-0.1	0.28±0.06	≤8.50	0.58±0.10
Φ18	18.5+0.3/-0.1	0.32±0.08	≤9.00	0.68±0.10
Φ20	20.6+0.5/-0.2	0.32±0.08	≤10.0	0.68±0.10
Φ22	22.6+0.7/-0.2	0.35±0.08	≤11.0	0.72±0.12
Φ25	25.6+0.7/-0.2	0.40±0.10	≤12.5	0.78±0.12
Φ28	28.6+0.7/-0.2	0.40±0.10	≤14.0	0.78±0.12
Φ30	30.6+0.7/-0.2	0.40±0.10	≤15.0	0.82±0.12
Φ35	35.6+0.7/-0.2	0.45±0.10	≤17.5	0.92±0.12
Φ40	41.0±0.5	0.50±0.12	≤20.0	1.00±0.15
Φ45	46.0±0.5	0.50±0.12	≤22.5	1.00±0.15
Φ50	51.0±0.5	0.55±0.15	≤25.0	1.10±0.15
Φ55	55.5±1.0	0.55±0.15	≤27.5	1.10±0.15
Φ60	60.5±1.0	0.60±0.15	≤30.0	1.25±0.20
Φ70	71.0±1.0	0.60±0.15	≤35.0	1.25±0.20
Φ80	81.0±1.0	0.60±0.15	≤40.0	1.25±0.20
Φ90	91.0±1.0	0.60±0.15	≤45.0	1.25±0.20
Φ100	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 <sup>14</sup> 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

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