

**Part Number** CB-HFT1000

**Header** CB-HFT1000 Military Spec Cross-linked Polyolefin Heat Shrink Tubing

**Description** Thermosleeve-USA CB-HFT1000 is our premium grade series of heat shrink tubing and is also an excellent choice for many general and commercial applications. CB-HFT1000 offers outstanding all round performance, is very flexible flame retardant tubing made from a special blend of cross-linked polyolefin. CB-HFT1000 has a minimum shrink temperature rating of 100 degrees C (212 degrees F), offers superior chemical resistant properties and out performs many general-purpose polyolefin tubing.

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

**Application** CB-HFT1000 heat shrink tubing is widely used to provide insulation and strain relief cover to both wire terminations and electrical connectors. Other general applications include wire marking coding and general insulation for light harness assemblies.

**Shrink Ratio and Operating Temperature** CB-HFT1000 is available with either a 2:1 or 3:1 shrink ratio. When fully recovered, the 2:1 material will shrink to one half (50%) of its original supplied diameter and the 3:1 material will shrink to one third (33%) of its original supplied diameter. The tubing's wall thickness will also change proportionally to the degree of recovery.

CB-HFT1000 has a continuous operating temperature rating of -55 degrees C (-67 degrees F) and 135 degrees C (275 degrees F)

**Standard Sizes and Dimension**



Size 2X					
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)
3/164	1.2	1.5±0.3	0.21±0.08	0.6	0.41±0.08
1/16"	1.6	2.0±0.3	0.21±0.08	0.8	0.43±0.08
3/132	2.4	2.7±0.3	0.25±0.08	1.2	0.51±0.08
1/8"	3.2	3.5±0.3	0.25±0.08	1.6	0.51±0.08
3/16"	4.8	5.1±0.4	0.25±0.08	2.4	0.51±0.08
1/4"	6.4	6.8±0.4	0.32±0.10	3.2	0.64±0.08
3/8"	9.5	9.9±0.4	0.35±0.10	4.8	0.64±0.08
1/2"	12.7	13.2±0.4	0.33±0.10	6.4	0.64±0.08
3/4"	19.1	19.7±0.8	0.38±0.12	9.5	0.76±0.12
1"	25.4	26.0±1.0	0.45±0.15	12.7	0.90±0.15
1-1/2"	38.1	40.0±1.0	0.52±0.20	19.1	1.02±0.20
2"	50.8	51±1.0	0.57±0.20	25.4	1.14±0.20
3"	76.2	77.2±2.0	0.63±0.20	38.1	1.27±0.20
4"	100	102.5±2.0	0.70±0.20	50.8	1.4±0.23

Size 3X					
1"	25.4	25.4±1.0	0.20±0.05	8.5	0.64±0.08
2"	50.8	50.8±1.0	0.30±0.06	17.0	1.10±0.08

## Typical Properties

Item	Specifications
Shrink Temperature (°C)	100°C - 140°C
Temperature Range (°C)	125
Radial Shrinking Ratio (%)	≥50
Longitudinal Change (%)	-55 ~ +5
Tensile Strength (MPa)	≥10.4MPa
Ultimate Elongation (%)	200
Aging in Circulating-air Oven	175±2.0 °C, 168Hrs
Tensile Strength (MPa) - After Aging	6.9MPa
Ultimate Elongation (%) - After Aging	
Dielectric Voltage Withstand (V)	
Volume Resistivity (Ω.cm)	10 <sup>12</sup>
Dielectric Voltage (V) AC	
Dielectric Strength (kV/mm)	15.8kv/mm
Flammability	
Concentricity (%)	≥50
Heat Shock	No cracks, flowing or dripping
Cold Shock	
Radial Shrinkage	
Copper Corrosion	No corrosion

**Availability** Four-foot lengths, master reels and cut pieces

**Important Notice** The information related to Thermosleeve-USA products both in printed or electronic format is believed to be reliable but the accuracy and completeness is not guaranteed. We suggest that before using this product, you evaluate and determine if it is suitable to your intended application. Thermosleeve-USA assumes no risk or liability associated with the use of this material. Any statements related to this product that are not contained in the current Thermosleeve-USA online or printed literature, or any contrary statements referenced on purchase order, shall have no force or effect unless expressly agreed to in writing and signed by an office of Thermosleeve-USA.

**Limited Warranty/Limited Liability** Thermosleeve-USA offers no guarantees in respect to the accuracy of the information detailed in this document and accepts no explicit or applied liability as to the products use. In no instance will Thermosleeve-USA be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product. Thermosleeve-USA specifications are subject to change without notice; including changes in materials and processing that do not affect compliance of the products specification. Thermosleeve-USA guarantees the product to be free from defects in material and manufacturing at the time of purchase. If this product is found to be defective within the warranty period, at our option we will refund the purchase price, replace or repair the Thermosleeve-USA product.