

Part Number CB-HFT600

Header CB-HFT600 Commercial Grade Polyolefin Heat Shrink Tubing

Description Thermosleeve-USA CB-HFT600 is our most popular series of heat shrink tubing and an excellent choice for many general and commercial applications. Economically priced, CB-HFT600 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 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, F Mark, UL224, REACH, VW1

Application CB-HFT600 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 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 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 |
| 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 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

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.