

Part Number CB-HFT3X

Header CB-HFT3X Commercial Grade Polyolefin Heat Shrink Tubing

Description Thermosleeve-USA's CB-HFT3X higher shrink ratio accommodates irregular shapes and a wide range of bundle diameters. CB-HFT3X 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. CB-HFT3X is resistant to common fluids and solvents, CB-HFT3X 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-HFT3X heat shrink tubing is free of Pb, Cd, Hg, Cr+6, PBB and PBDE. CB-HFT 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-HFT3X 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.

CB-HFT3X 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
3/32"	Φ2.4/0.8	2.4	0.2	0.8	0.48±0.06
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
5/8"	Φ15.0/5.0	15	0.25	5	0.70±0.15
11/16"	Φ18.0/6.0	18	0.3	6	0.80±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
1-3/16"	Φ30.0/10.0	30	0.36	10	1.00±0.15
1-1/4"	Φ31.8/10.5	31.8	0.36	10.5	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 (%)	≥65
Heat Shock	
Cold Shock	

Availability Four-foot lengths, master reels and cut pieces

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