

Header CB-HFT4X Over Expanded Commercial Grade Polyolefin Heat Shrink Tubing

Description Thermosleeve-USA CB-HFT4X is an excellent choice for many special applications where an over expanded material is required. CB-HFT4X is flexible, halogen free, flame retardant tubing manufactured from a special blend of cross-linked polyolefin and is recommended for applications including cable repair or when insulation is required for assemblies that have oversized components or connectors. CB-HFT4X higher shrink ratios accommodate irregular shapes and a wide range of bundle diameters without a large degree of longitudinal change. Resistant to common fluids and solvents, CB-HFT4X has a shrink temperature rating of 90 degrees C (194 degrees F).

Agency Approval & Compliance

Application CB-HFT4X 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-HFT4X has a 4:1 shrink ratio and when fully recovered, the 4:1 material will shrink to one third (25%) of its original supplied diameter.

CB-HFT4X has a continuous operating temperature rating of -55 degrees C (-67 degrees F) and 125 degrees C (257 degrees F)

Standard Sizes and Dimension

Specifications

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)
5/16"	Φ8.0/2.0	8.5±0.5	0.30±0.15	2	0.95±0.15
3/8"	Φ10.0/2.5	10.5±0.5	0.30±0.15	2.5	1.00±0.15
1/2"	Φ12.0/3.0	12.5±0.5	0.30±0.15	3	1.00±0.15
5/8"	Φ16.0/4.0	16.5±0.5	0.30±0.15	4	1.00±0.15
11/16"	Φ18.0/4.5	18.5±0.5	0.30±0.15	4.5	1.00±0.15
3/4"	Φ20.0/5.0	20.5±0.5	0.30±0.15	5	1.00±0.15
1"	Φ25.0/6.25	25.5±0.5	0.40±0.20	6.25	1.40±0.20

Typical Properties

Item	Specifications
Shrink Temperature (°C)	100 ~ 140
Temperature Range (°C)	125
Radial Shrinking Ratio (%)	4:1
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 Strength (kV/mm)	≥15
Flammability	VW-1
Concentricity (%)	≥65

Availability Four-foot lengths, master reels and cut pieces

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