

Part Number CB-HFTLS

Header CB-HFTLS Low Shrink Temperature Polyolefin Heat Shrink Tubing

Description Thermosleeve USA CB-HFTLS is highly flexible, halogen free and flame retardant making it an excellent choice when a low temperature heat shrink tubing is required. CB-HFTLS is suitable as an insulating jacket for sensitive or delicate components where the introduction of excess heat may cause damage. Due to its low temperature requirements, CB-HFTLS reduces install time and offers an exceptional fast recovery. CB-HFTLS is resistant to common fluids and solvents with a shrink temperature rating starting as low as of 55 degrees C and completing at 90 degrees C (131 -194 degrees F).

Agency Approval & Compliance UL, CUL, ROHS, Halogen free, Flame Retardant, FMark, UL224, REACH, VW1

Application CB-HFTLS 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-HFTLS 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-HFTLS 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	As Supplied (mm)		After Recovery (mm)	
	Inside Diameter (D)	Wall-thickness (T)	Inside Diameter (d)	Wall-thickness (t)
φ0.8	1.3±0.2	0.15±0.05	≤0.45	0.28±0.05
φ1.0	1.5±0.2	0.18±0.05	≤0.6	0.30±0.05
φ1.5	2.0±0.2	0.18±0.05	≤0.8	0.32±0.05
φ2.0	2.5±0.2	0.18±0.05	≤1.00	0.35±0.05
φ2.5	3.0±0.2	0.20±0.05	≤1.25	0.38±0.05
φ3.0	3.5±0.3	0.20±0.05	≤1.5	0.38±0.05
φ3.5	4.0±0.3	0.20±0.05	≤1.75	0.38±0.05
φ4.0	4.5±0.3	0.23±0.05	≤2.0	0.45±0.05
φ4.5	4.8±0.3	0.23±0.05	≤2.25	0.45±0.05
φ5.0	5.5±0.3	0.23±0.05	≤2.5	0.45±0.05
φ6.0	6.5±0.4	0.25±0.05	≤3.0	0.50±0.05
φ6.5	7.0±0.4	0.25±0.05	≤3.0	0.52±0.05
φ7.0	7.5±0.4	0.30±0.08	≤3.5	0.60±0.05
φ8.0	8.5±0.3	0.30±0.08	≤4.0	0.60±0.08

φ9.0	9.5±0.4	0.30±0.08	≤4.5	0.60±0.08
φ10	10.5±0.5	0.30±0.08	≤5.0	0.60±0.08
φ11	11.5±0.5	0.30±0.08	≤5.5	0.60±0.08
φ12	12.5±0.5	0.30±0.08	≤6.0	0.60±0.08
φ13	13.5±0.5	0.36±0.12	≤6.5	0.65±0.12
φ14	14.5±0.5	0.36±0.12	≤7.0	0.65±0.12
φ15	15.5±0.5	0.36±0.12	≤7.5	0.65±0.12
φ16	16.5±0.5	0.36±0.12	≤8.0	0.70±0.12
φ17	17.5±0.5	0.36±0.12	≤8.5	0.70±0.12
φ18	18.7±0.5	0.40±0.15	≤9.0	0.75±0.12
φ20	20.6±0.6	0.40±0.15	≤10.0	0.80±0.12
φ22	22.7±0.6	0.40±0.15	≤11.0	0.80±0.12
φ25	25.5±0.7	0.45±0.15	≤12.5	0.90±0.12
φ28	29.2±0.7	0.45±0.15	≤14.0	0.90±0.12
φ30	31.0±0.7	0.45±0.15	≤15.0	0.90±0.12
φ35	≥35	0.50±0.15	≤19	1.00±0.30
φ40	≥40	0.50±0.15	≤21	1.00±0.30
φ50	≥50	0.50±0.15	≤27	1.00±0.30
φ55	≥55	0.50±0.15	≤28	1.00±0.30
φ60	≥60	0.50±0.15	≤31	1.00±0.30
φ70	≥70	0.70±0.30	≤35.0	1.45±0.25
φ80	≥80	0.70±0.30	≤40.0	1.45±0.25
φ90	≥90	0.70±0.30	≤45.0	1.45±0.25
φ100	≥100	0.70±0.30	≤50.0	1.45±0.25

Inches

Size	As Supplied (mm)		After Recovery (mm)	
	Inside Diameter (D)	Wall-thickness (T)	Inside Diameter (d)	Wall-thickness (t)
3/64	1.2	0.18±0.05	≤0.6	0.30±0.05
1/16	1.6	0.18±0.05	≤0.8	0.32±0.05
3/32	2.4	0.18±0.05	≤1.00	0.35±0.05
1/8	3.2	0.20±0.05	≤1.5	0.38±0.05
3/16	4.8	0.23±0.05	≤2.0	0.45±0.05
1/4	6.4	0.25±0.05	≤3.0	0.50±0.05

3/8	9.5	0.30±0.08	≤4.5	0.60±0.08
1/2	12.7	0.30±0.08	≤6.0	0.60±0.08
3/4	19.1	0.40±0.12	≤10.0	0.75±0.12
1	25.4	0.45±0.12	≤12.5	0.90±0.12
1-1/4	31.8	0.45±0.12	≤15.0	0.90±0.12
1-1/2	38.1	0.50±0.15	≤21	1.00±0.30
2	50.8	0.50±0.15	≤27	1.00±0.30
3	≥80	0.70±0.30	≤40.0	1.45±0.25
4	≥100	0.70±0.30	≤50.0	1.45±0.25

Other sizes are available upon special order.

Typical Properties

Item	Specifications
Shrink Temperature (°C)	90
Temperature Range (°C)	-55 ~ 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)	
Volume Resistivity (Ω.cm)	≥10 ¹⁴
Dielectric Voltage (V) AC	
Dielectric Strength (kV/mm)	≥15
Flammability	VW-1
Concentricity (%)	≥70
Heat Shock	
Cold Shock	
Radial Shrinkage	
Copper Corrosion	

Availability Master reels and cut pieces

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