

CB-HFT(2X)(3X)(4X)Halogen Free Heat Shrinkable Tubing

CB-HFT is halogen-free, flexible, flame-retardant polyolefin heat-shrinkable tubing. This tubing is low smoke generating, abrasion resistant and in case of burning, produces no dioxin. CB-HFT tubing is widely used in enclosed areas where a flame-retardant, halogen-free environment is required. It is perfect for electrical and electronics applications and has uses in fields such as aerospace, automotive, construction, power delivery and mass transit vehicles including buses, trains, airplanes, and marine vessels.



Certifications: UL, CUL, F-mark, Sony Green Partner

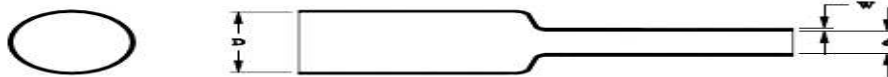
Technical Data:

Test item		Test Method	Standard	
Physical	Radial Shrinking Ratio		2:1,3:1,4:1	
	Shrink Temperature		90°C	
	Operating Temperature Range		-55°C-125°C	
	Longitudinal Change	ASTM D2671	≤±5%	
	Tensile Strength	ASTM D2671	≥10.4 Mpa	
	Elongation at break	ASTM D2671	≥200%	
	Aging in Circulating-air Oven	UL 224	158.0±1.0°C, 168hrs	
	After aging	Tensile Strength	ASTM D2671	≥7.3 Mpa
		Elongation at break	ASTM D2671	≥100%
	Heat shock		UL224,250°Cx4hrs	No cracking, No dripping
Concentricity		ASTM D 2671	≥70%	
Electrical	Volume Resistance		≥10 ¹⁴ Ω .cm	
	Voltage Withstand at 1 min	300V	UL224 No breakdown for 1500V	
		600V	UL224 No breakdown for 2500V	
	Dielectric Strength			≥20Kv/mm
	Cold Blend		UL224,-30°Cx1hrs	No cracking
Chemical	Flammability	UL 224	VW-1	
	Copper stability	UL224,158°Cx168hrs	Pass	
	Corrosion of bare copper	UL224,158°Cx168hrs	Pass	

Dimensions:

Size	As Supplied (mm)		After Recovery (mm)		Standard Packing		
	ID	W.T	ID	W.T	M/Spool	Spool/Carton	Carton size(cm)
φ1.0	1.5±0.2	0.18±0.08	≤0.6	0.36±0.06	200	15	31*31*46
φ1.5	2.0±0.2	0.20±0.08	≤0.8	0.4±0.06	200	15	46*46*30
φ2.0	2.5±0.2	0.20±0.08	≤1.00	0.42±0.08	200	15	46*46*45
φ2.5	3.0±0.2	0.22±0.08	≤1.25	0.42±0.08	200	14	46*46*45
φ3.0	3.5±0.3	0.25±0.1	≤1.5	0.46±0.08	200	11	46*46*45
φ3.5	4.0±0.3	0.25±0.1	≤1.75	0.46±0.08	200	9	46*46*45
φ4.0	4.5±0.3	0.25±0.1	≤2.0	0.48±0.08	200	8	46*46*45
φ4.5	4.8±0.3	0.25±0.1	≤2.25	0.5±0.1	100	10	46*46*45
φ5.0	5.5±0.4	0.25±0.1	≤2.5	0.5±0.1	100	10	46*46*45
φ6.0	6.5±0.4	0.28±0.10	≤3.0	0.56±0.1	100	8	46*46*45
φ6.5	7.0±0.4	0.28±0.10	≤3.25	0.56±0.1	100	7	46*46*45
φ7.0	7.5±0.4	0.30±0.10	≤3.5	0.58±0.1	100	15	46*46*36

φ8.0	8.5±0.5	0.30±0.10	≤4.0	0.6±0.1	100	14	46*46*36
φ9.0	9.5±0.5	0.30±0.10	≤4.5	0.6±0.1	100	14	46*46*36
φ10	10.5±0.5	0.30±0.10	≤5.0	0.6±0.1	100	12	46*46*36
φ11	11.5±0.5	0.30±0.10	≤5.5	0.6±0.1	100	12	46*46*36
φ12	12.5±0.5	0.30±0.10	≤6.0	0.6±0.1	100	12	46*46*36
φ13	13.5±0.5	0.36±0.12	≤6.5	0.65±0.12	100	10	46*46*36
φ14	14.5±0.5	0.36±0.12	≤7.0	0.65±0.12	100	10	46*46*36
φ15	15.5±0.5	0.36±0.12	≤7.5	0.65±0.12	100	9	46*46*36
φ16	16.5±0.5	0.36±0.12	≤8.0	0.65±0.12	100	9	46*46*36
φ17	17.5±0.5	0.36±0.12	≤8.5	0.65±0.12	100	9	46*46*36
φ18	18.7±0.5	0.4±0.15	≤9.0	0.7±0.12	100	9	46*46*36
φ20	20.7±0.6	0.4±0.15	≤10.0	0.75±0.15	100	7	46*46*30
φ22	22.7±0.6	0.4±0.15	≤11.0	0.8±0.15	100	6	46*46*30
φ25	25.7±0.7	0.40±0.15	≤12.5	0.90±0.15	50	6	46*46*30
φ28	29±0.7	0.45±0.15	≤14.0	0.95±0.15	50	5	46*46*30
φ30	31.0±0.7	0.45±0.15	≤15.0	0.95±0.2	50	5	46*46*30
φ35	≥35	0.50±0.20	≤17.5	1.0±0.2	25	8	31*31*52
φ40	≥40	0.55±0.250	≤20	1.1±0.25	25	7	31*31*52
φ50	≥50	0.6±0.250	≤26	1.2±0.25	25	6	31*31*52
φ60	≥60	0.60±0.250	≤30	1.2±0.25	25	4	31*31*46
φ70	≥70	0.70±0.30	≤35.0	1.45±0.25	25	4	31*31*46
φ80	≥80	0.70±0.30	≤40.0	1.45±0.25	25	4	31*31*52
φ90	≥90	0.70±0.30	≤45.0	1.45±0.25	25	4	31*31*52
φ100	≥100	0.70±0.30	≤50.0	1.45±0.25	25	4	31*31*52



Size (Inch)	As supplied (mm)		After Recovery (mm)		Standard Packing		
	Min. ID	Normal W.T	Max. ID	W.T	M/Spool	Spool/Carton	Carton size(cm)
3/64	1.2	0.18±0.08	≤0.6	0.36±0.06	200	15	31*31*46
1/16	1.6	0.20±0.08	≤0.8	0.4±0.06	200	15	46*46*30
3/32	2.4	0.20±0.08	≤1.00	0.42±0.08	200	15	46*46*45
1/8	3.2	0.25±0.1	≤1.5	0.46±0.08	200	11	46*46*45
3/16	4.8	0.25±0.1	≤2.25	0.5±0.1	100	10	46*46*45
1/4	6.4	0.28±0.10	≤3.0	0.56±0.1	100	8	46*46*45
3/8	9.5	0.30±0.10	≤4.5	0.6±0.1	100	14	46*46*36
1/2	12.7	0.36±0.12	≤6.5	0.65±0.12	100	12	46*46*36
3/4	19.1	0.55±0.250	≤20	1.1±0.25	100	9	46*46*36
1	25.4	0.40±0.15	≤12.5	0.90±0.15	50	6	46*46*30
1-1/4	31.8	0.45±0.15	≤15.0	0.95±0.2	50	5	46*46*30
1-1/2	38.1	0.55±0.250	≤20	1.1±0.25	25	7	31*31*52
2	50.8	0.6±0.250	≤26	1.2±0.25	25	6	31*31*52
3	≥80	0.70±0.30	≤40.0	1.45±0.25	25	3	40*40*42
4	≥100	0.70±0.30	≤50.0	1.45±0.25	25	4	31*31*52

CB-HFT (3X)

Size (inch)	As Supplied (mm)		After Recovery (mm)		Standard Length M/Spool	
	Min. ID	Normal W.T	Max. ID	W.T		
1/16	1.5/0.5	1.5	0.18±0.08	0.5	0.40±0.1	200
1/8	3/1	3.0	0.20±0.08	1.0	0.55±0.1	200
3/16	4.5/1.5	4.5	0.20±0.08	1.5	0.55±0.1	200
1/4	6/2	6.0	0.22±0.0	2.0	0.6±0.15	100
3/8	9/3	9.0	0.25±0.0	3.0	0.7±0.15	100
1/2	12/4	12.0	0.25±0.1	4.0	0.7±0.15	100
3/4	18/6	18.0	0.3±0.12	6.0	0.8±0.2	100
1	24/8	24.0	0.36±0.15	8.0	1.0±0.2	50
1-1/2	39/13	39.0	0.45±0.15	13.0	1.25±0.2	25

CB-HFT(4X)

Size	As Supplied (mm)	After Recovery (mm)	Standard Length
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	Min.ID	Nominal W.T	Max ID	W.T	M/Spool
8/2	8.5±0.5	0.30±0.15	≤2.0	0.95±0.15	100
10/2.5	10.5±0.5	0.30±0.15	≤2.5	1.00±0.15	100
12/3	12.5±0.5	0.30±0.15	≤3.0	1.00±0.15	100
16/4	16.5±0.5	0.30±0.15	≤4.0	1.00±0.15	100
18/4.5	18.5±0.5	0.30±0.15	≤4.5	1.00±0.15	100
20/5	20.5±0.5	0.30±0.15	≤5.0	1.00±0.15	100
24/6	25.5±0.5	0.40±0.20	≤6.25	1.40±0.20	50

Ordering information:

- ◆Standard color: Black, White, Blue, Yellow, Green, Orange, Violet, Brown, Gray
- ◆Spools as standards.1m or 1.20m,sticks, special length or cut pieces available on request
- ◆Special size and color available upon request.

