

CTT Halogen Free Flame-retardant Heat Shrinkable Tube W-1-H(normal wall) W-1-HCB(thin wall)

Standard: UL224VW-1

C-UL CSA c 22.2 OFT



Product Introduction:

CTT Heat Shrinkable Tube is a newly developed environment-friendly flame retardant heat shrinkable tube, using specially designed formulation of high polymers, through cross-link by electronic accelerator and continuous expansion.

The properties of environment-friendly, flexibility flame retardant, quick shrink and stable performance make them widely used in the Field of electronics, communication, automobile, and widely applied for connecting or end-handling, electric wire, insulating and harness of electric wire, corrosion and rust-proof of metallic rods or tubes, antenna protection and marking for other products.

Characteristics:

1. Do not contain four heavy metal elements and four halogen elements. Passed SGS test.
2. Do not contain organic stannum compound, Asbestos, Azo Compounds and Formaldehyde.
3. Operating Temperature: - 55°C ~ 125°C.
4. Shrinking Temperature: Start at 70°C, and full recovery at 110°C(for thin wall) or 120°C(for normal wall), longitudinal shrink ratio: ≤ 8%.
5. Flexible, flame retardant.
6. The Available sizes from Φ 0,6 ~ Φ 180mm, Can produce upon customer's Special requirement.
7. Easy for use, using oven or heating gun and it Will shrink.
8. Meet Sony and RoHS standard.

Standard Colors: Black, Red, Yellow, Green, Blue, White, Transparent.

TECHNICAL DATA:

PROPERTY		Test Method	Standard	
Physical	Tensile strength (Mpa)	ASTM D2671	≥ 10.4	
	Elongation (%)	ASTM D2671	≥ 200	
	Tensile strength after ageing (Mpa)	UL 224	≥ 7,3	
		158°C X 168hrs		
	Elongation after ageing (%)	UL 224	≥ 100	
		158°C X 168hrs		
Heat Shock	UL 224	No dripping		
	250°C X 4hrs	No cracking		
Electrical	Cold blend	UL 224	No cracking	
		-30°C x 1hrs		
	Dielectric strength (KV/mm)		IEC 243	≥ 15
	Dielectric strength (KV/mm)	300V	UL 224	No breakdown for 1500V
600V		UL 224	No breakdown for 2500V	

	Volume resistivity (Ω -cm)	IEC 93	$\geq 1 \times 10^1$
Chemical	Corrosion of bare copper	UL 224	Pass
		158°C X 168hrs	
	Copper stability	UL 224	Pass
158°C X 168hrs			
	Flammability	UL 224	VW-1

ENVIRONMENT FRIENDLY CHARACTERISTICS:

Hazardous Element	Test Method	Result(mg/kg)	Hazardous element	Test Method	Result (mg/kg)
Cd	EN1122:2001Method B	≤ 5	F	EN 14582 Method B	≤ 200
Pb	EPA 3050 B	≤ 90	Cl	EN 14582 Method B	≤ 800
Cr 6+	EPA 3050 B	≤ 5	Br	EN 14582 Method B	≤ 800
HG	EPA 3052	≤ 5	I	EN 14582 Method B	≤ 200

Size (mm)	As Supplied (mm)		After Recovery (mm)		Standard Package		
	I.D.	Average W.T.	Max. I.D.	Average W.T.	M/spool	Spools/carton	Carton size(cm)
Φ0.6	0.9 ± 0.2	0.15 ± 0.05	≤0.40	0.22 ± 0.10	200	23	31 x 31 x 44,5
Φ0.8	1.0 ± 0.2	0.15 ± 0.05	≤0.50	0.22 ± 0.10	200	23	31 x 31 x 44,5
Φ1.0	1.5 ± 0.3	0.15 ± 0.05	≤0.65	0.28 ± 0.10	200	16	31 x 31 x 44,5
Φ1.5	2.0 ± 0.3	0.18 ± 0.05	≤0.85	0.32 ± 0.10	200	12	31 x 31 x 44,5
Φ2.0	2.5 ± 0.3	0.18 ± 0.05	≤1.00	0.35 ± 0.10	200	15	46 x 46 x 44,5
Φ2.5	3.0 ± 0.3	0.18 ± 0.05	≤1.30	0.38 ± 0.10	200	13	46 x 46 x 44,5
Φ3.0	3.5 ± 0.2	0.18 ± 0.05	≤1.50	0.40 ± 0.10	200	11	46 x 46 x 44,5
Φ3.5	4.0 ± 0.2	0.22 ± 0.05	≤1.80	0.42 ± 0.10	200	9	46 x 46 x 44,5
Φ4.0	4.5 ± 0.2	0.25 ± 0.05	≤2.00	0.45 ± 0.10	200	7	46 x 46 x 44,5
Φ4.5	5.0 ± 0.4	0.25 ± 0.05	≤2.30	0.50 ± 0.10	100	10	46 x 46 x 44,5
Φ5.0	5.5 ± 0.2	0.25 ± 0.05	≤2.50	0.55 ± 0.10	100	9	46 x 46 x 44,5
Φ6.0	6.5 ± 0.2	0.28 ± 0.05	≤3.00	0.55 ± 0.10	100	7	46 x 46 x 44,5
Φ7.0	7.5 ± 0.3	0.28 ± 0.05	≤3.50	0.55 ± 0.10	100	14	46 x 46 x 31
Φ8.0	8.5 ± 0.3	0.28 ± 0.05	≤4.00	0.60 ± 0.10	100	13	46 x 46 x 31
Φ9.0	9.5 ± 0.3	0.30 ± 0.08	≤4.50	0.60 ± 0.10	100	12	46 x 46 x 31
Φ10.0	10.5 ± 0.3	0.30 ± 0.08	≤5.00	0.60 ± 0.10	100	11	46 x 46 x 31
Φ11.0	11.5 ± 0.3	0.30 ± 0.08	≤5.50	0.60 ± 0.10	100	11	46 x 46 x 31
Φ12.0	12.5 ± 0.3	0.30 ± 0.08	≤6.00	0.60 ± 0.10	100	10	46 x 46 x 31
Φ13.0	13.5 ± 0.3	0.35 ± 0.10	≤6.50	0.65 ± 0.10	100	9	46 x 46 x 29,5
Φ14.0	14.5 ± 0.3	0.35 ± 0.10	≤7.00	0.65 ± 0.10	100	9	46 x 46 x 31
Φ15.0	15.5 ± 0.4	0.40 ± 0.12	≤7.50	0.70 ± 0.10	100	8	46 x 46 x 29,5
Φ16.0	16.5 ± 0.4	0.40 ± 0.12	≤8.00	0.70 ± 0.10	100	8	46 x 46 x 31
Φ17.0	17.5 ± 0.4	0.40 ± 0.12	≤8.50	0.70 ± 0.10	100	7	46 x 46 x 29,5
Φ18.0	19.0 ± 0.5	0.40 ± 0.15	≤9.00	0.80 ± 0.15	100	7	46 x 46 x 29,5
Φ20.0	21.0 ± 0.5	0.40 ± 0.15	≤10.00	0.80 ± 0.15	100	6	46 x 46 x 29,5
Φ22.0	23.0 ± 0.5	0.40 ± 0.15	≤11.00	0.80 ± 0.15	100	6	46 x 46 x 31
Φ25.0	26.0 ± 0.5	0.50 ± 0.15	≤12.50	0.90 ± 0.15	50	6	46 x 46 x 31
Φ28.0	29.0 ± 0.5	0.50 ± 0.15	≤14.00	0.90 ± 0.15	50	5	46 x 46 x 29,5
Φ30.0	31.5 ± 1.0	0.50 ± 0.15	≤15.00	0.95 ± 0.15	50	5	46 x 46 x 31
Φ35.0	36.5 ± 1.0	0.50 ± 0.15	≤17.50	1.00 ± 0.15	50	4	46 x 46 x 29,5

Φ40.0	41.5 ± 1.0	0.55 ± 0.15	≦20.00	1.00 ± 0.15	50	4	46 x 46 x 31
Φ50.0	50	0.55 ± 0.15	≦25.00	1.00 ± 0.15	25	5	31 x 31 x 44,5
Φ60.0	60	0.60 ± 0.15	≦30.00	1.30 ± 0.20	25	4	31 x 31 x 42
Φ70.0	70	0.65 ± 0.15	≦35.00	1.30 ± 0.20	25	3	31 x 31 x 37
Φ80.0	80	0.65 ± 0.15	≦40.00	1.46 ± 0.20	25	3	31 x 31 x 42
Φ90.0	90	0.65 ± 0.15	≦45.00	1.46 ± 0.20	25	2	31 x 31 x 32
Φ100.0	100	0.65 ± 0.20	≦50.00	1.46 ± 0.20	25	2	31 x 31 x 34,5
Φ120.0	120	0.65 ± 0.20	≦60.00	1.56 ± 0.20	25	2	31 x 31 x 40,5
Φ150.0	150	0.65 ± 0.20	≦75.00	1.56 ± 0.20	25	2	31 x 31 x 49,5
Φ180.0	180	0.65 ± 0.30	≦90.00	1.56 ± 0.20	25	2	31 x 31 x 31

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