



## DBRS-125H (2X) (3X)

# Halogen-free Flame Retardant Heat Shrinkable Tubing



## Description

Halogen-free fire retardant heat shrinkable tubing, made of radiation cross-linked polyolefin, is designed with excellent physicochemical and electrical properties. Typical applications include insulation of electrical connections or wire splices, rust and corrosion resistance for the soldered joints or connections, mechanical and wiring harness protection and insulation in electronics, communications, automotive, marine, aircraft manufacturing and other fields.

## Features

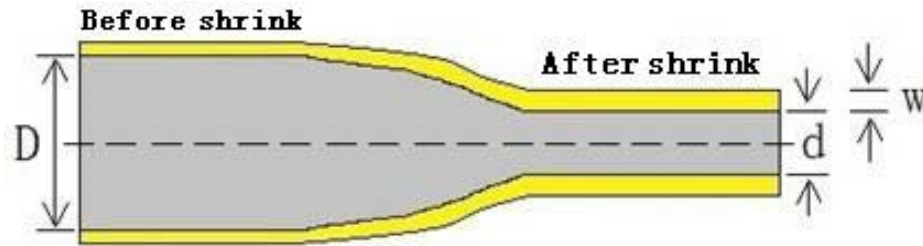
- Meets UL 224, CAN / CSA C22.2 NO198.1 -99
- Heat shrink ratio : 2:1,3:1
- Halogen-free , low-smoke generations , non-toxic , flexible , fire retardant
- Min. shrink temperature : 84 °C
- Min. full recovery temperature :120 °C
- Continuous operating temperature : -55 °C ~ 125°C
- Environmental standards : RoHS , IPC/JEDEC-J-STD-709 Class H material
- Standard colors: Black, White, Red , Yellow ,Green, Blue ,Clear. More colors are available upon request.



## Technical Performance

Properties	Typical Data	Test Method
Tensile strength	≥10.4MPa	ASTM D 2671
Elongation	≥200%	ASTM D 2671
Tensile strength after heat aging	≥7.3MPa	158°C×168h
Elongation after heat aging	≥100%	158°C×168h
Longitudinal change	-5% ~ +5%	ASTM D 2671
Flammability	VW-1	ASTM D 2671
Voltage withstand(Rated voltage 600V)	2500V, 1min, without breakdown	UL 224
Heat shock	No cracking, no dripping	UL 224 , 250°C×4h
Dielectric strength	≥15kV/mm	ASTM D 149
Volume resistivity	≥10 <sup>14</sup> Ω.cm	IEC 60093

## Structure



## Dimensions (2:1)

Size(mm)	As supplied D (mm)	After full Recovered(mm)		Standard Package (M/spool)
		Internal diameter d	Wall thickness w	
φ0.5/0.35	0.7±0.2	≤0.35	0.33±0.10	400
φ0.6/0.40	0.9±0.2	≤0.40	0.33±0.10	400
φ0.8/0.50	1.1±0.2	≤0.50	0.33±0.10	400
φ1.0/0.65	1.5±0.2	≤0.65	0.36±0.10	400
φ1.5/0.85	2.0±0.2	≤0.85	0.36±0.10	400
φ2.0/1.00	2.5±0.2	≤1.00	0.45±0.10	400
φ2.5/1.30	3.0±0.2	≤1.30	0.45±0.10	400
φ3.0/1.50	3.5±0.2	≤1.50	0.45±0.10	400
φ3.5/1.80	4.0±0.2	≤1.80	0.45±0.10	400
φ4.0/2.00	4.5±0.2	≤2.00	0.45±0.10	400
φ4.5/2.30	5.0±0.2	≤2.30	0.45±0.10	200
φ5.0/2.50	5.5±0.2	≤2.50	0.56±0.10	200
φ5.5/2.75	6.0±0.2	≤2.75	0.56±0.10	200
φ6.0/3.00	6.5±0.2	≤3.00	0.56±0.10	200
φ7.0/3.50	7.5±0.3	≤3.50	0.56±0.10	100
φ8.0/4.00	8.5±0.3	≤4.00	0.56±0.10	100
φ9.0/4.50	9.5±0.3	≤4.50	0.56±0.10	100



φ10/5.00	10.5±0.3	≤5.00	0.56±0.10	100
φ11/5.50	11.5±0.3	≤5.50	0.56±0.10	100
φ12/6.00	12.5±0.3	≤6.00	0.56±0.10	100
φ13/6.50	13.5±0.3	≤6.50	0.70±0.10	100
φ14/7.00	14.5±0.3	≤7.00	0.70±0.10	100
φ15/7.50	15.5±0.4	≤7.50	0.70±0.10	100
φ16/8.00	16.5±0.4	≤8.00	0.70±0.10	100
φ17/8.50	17.5±0.4	≤8.50	0.70±0.10	100
φ18/9.00	19.0±0.5	≤9.00	0.70±0.10	100
φ20/10.0	22.0±0.5	≤10.0	0.80±0.15	100
φ22/11.0	24.0±0.5	≤11.0	0.80±0.15	100
φ25/12.5	26.0±0.5	≤12.5	0.90±0.15	50
φ28/14.0	29.0±0.5	≤14.0	0.90±0.15	50
φ30/15.0	31.5±1.0	≤15.0	1.00±0.15	50
φ35/17.5	36.5±1.0	≤17.5	1.00±0.15	50
φ40/20.0	41.5±1.0	≤20.0	1.00±0.15	50
Φ45/22.5	≥45.0	≤22.5	1.00±0.15	50
φ50/25.0	≥50.0	≤25.0	1.10±0.15	25
φ60/30.0	≥60.0	≤30.0	1.20±0.15	25
φ70/35.0	≥70.0	≤35.0	1.30±0.20	25
φ80/40.0	≥80.0	≤40.0	1.30±0.20	25
φ90/45.0	≥90.0	≤45.0	1.30±0.20	25
φ100/50.0	≥100.0	≤50.0	1.30±0.20	25
φ120/60.0	≥120.0	≤60.0	1.30±0.20	25
φ150/75.0	≥150.0	≤75.0	1.30±0.20	25
φ180/90.0	≥180.0	≤90.0	1.30±0.20	25
φ210/105.0	≥210.0	≤105.0	1.30±0.30	25
φ230/115.0	≥230.0	≤115.0	1.30±0.30	25
φ250/125.0	≥250.0	≤125.0	1.30±0.30	25
Φ300/150.0	≥300.0	≤150.0	1.30±0.30	25

## Dimensions (3:1)



Size(mm)	As supplied D (mm)	After full recovered (mm)		Standard Package ( M/spool)
		Internal diameter d	Wall thickness w	
φ1.5/0.5	≥1.5	≤0.50	0.45±0.10	200
φ3.0/1.0	≥3.0	≤1.00	0.55±0.10	200
φ4.5/1.5	≥4.5	≤1.50	0.60±0.10	100
φ6.0/2.0	≥6.0	≤2.00	0.65±0.10	100
φ9.0/3.0	≥9.0	≤3.00	0.75±0.15	50
φ12/4	≥12.0	≤4.00	0.75±0.15	50
φ15/5	≥15.0	≤5.00	0.80±0.15	50
φ18/6	≥18.0	≤6.00	0.85±0.15	50
φ24/8	≥24.0	≤8.00	1.00±0.20	25
φ30/10	≥30.0	≤10.0	1.15±0.20	25
φ39/13	≥39.0	≤13.0	1.50±0.20	25
φ50/16	≥50.0	≤16.0	2.50±0.20	25
φ60/20	≥60.0	≤20.0	2.60±0.20	25
φ70/23	≥70.0	≤23.0	2.60±0.20	25
φ80/26	≥80.0	≤26.0	2.60±0.20	25
φ90/30	≥90.0	≤30.0	2.60±0.20	25
φ100/33	≥100.0	≤33.0	2.60±0.20	25

**Note: non standard dimensions and packages are also available on request**