

# Thermal Memory Ltd

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**ENH1 & ENHTW** are zero-halogen, non halogen – (LSZH) low smoke, flame retardant, heat shrink tubing, offering excellent fire safety characteristics combined with low emissions of acid gases, whilst retaining mechanical & fluid resistance properties.

Applications : Insulation of busbars, protection of cables, wires, wiring harnesses & electrical-electronic components in enclosed spaces.

: ENHTW Thin wall : ENH1 Medium wall :

**Operating Temperature**  
ENH1 -40°C to +105°C  
ENHTW -30°C to +125°C

**Main features**  
Standard shrink ratio 2:1  
Flame retardant & zero-halogen, low smoke LSZH  
ID range 3.2 to 25.4 mm for ENH1  
ID range 1.2 to 101.6mm for ENHTW



Size	Inside Diameter		ENHTW		ENH1	
	Supplied D (min)	Fully recovered d (max)	# Wall thickness fully recovered w (nominal)	# Wall thickness fully recovered w (nominal)	# Wall thickness fully recovered w (nominal)	# Wall thickness fully recovered w (nominal)
1.2	1.2	0.6	0.40	0.40		
1.6	1.6	0.8	0.43	0.43		
2.4	2.4	1.2	0.51	0.51		
3.2	3.2	1.6	0.51	0.51	0.70	0.70
4.8	4.8	2.4	0.51	0.51	0.85	0.85
6.4	6.4	3.2	0.64	0.64	0.90	0.90
9.5	9.5	4.8	0.64	0.64	1.00	1.00
12.7	12.7	6.4	0.64	0.64	1.20	1.20
19.0	19.0	9.5	0.76	0.76	1.40	1.40
25.4	25.4	12.7	0.89	0.89	1.80	1.80
38.0	38.0	19.0	1.02	1.02		
50.8	50.8	25.4	1.14	1.14		
76.2	76.2	38.1	1.27	1.27		
101.6	101.6	50.8	1.40	1.40		

# If tubing is restricted in any way, this will cause the wall thickness to differ from the actual nominal dimensions stated above.

**Colours** – 0 Black, other colours available to order.  
**Sizes required** Refer to dimensions data above & select the size required to fit snugly over all the area of the substrate/component (preferably +20 to +30%)  
**For ordering** Please specify the code types, sizes, colour & quantities. Example ENHTW 25.4-0-300mtrs

Properties	Test Method	Typical value
Tensile strength	ISO 37	7 MPa
Ultimate elongation	ISO 37	200%
Heat shock 4hrs @ +175°C	ISO 188	No dripping, flowing or cracking
Low temp. flexibility 4hrs @ -30°C	ASTM D2671	No cracking
Flammability	ASTM D876	Passes
Dielectric strength	IEC 243-1	15kV/mm (min)
Smoke index	IEC 60684-2	20 (max)
Toxicity Index	IEC 60684-2	5 per 100 grms
Longitudinal change		±10%

Clear : heat shrink tubing, although it will burn, it still is halogen free.