

Electronics

- · Environmental sealing
- · High strength bonding
- · Ideal for connector sealing covering large diameter differences
- · Shrink ratio: 4:1

HTAT

Semi-flexible, dual wall moisture proof, heat-shrinkable tubing

Raychem Interconnect

HTAT is a semi-flexible, heat-shrinkable tubing with an integrally bonded meltable adhesive inner lining designed to provide moisture proof encapsulation for a range of subtrates, at elevated temperatures. Manufactured by Raychem from radiation

crosslinked polyolefins, the inner wall melts when heated and is forced into interstices by the shrinking of the outer wall, so that when cooled, the substrate is encapsulated by a tough, protective, moisture proof barrier. An operating

range for -55°C up to +125°C and a high shrink ratio as standard, means that the tubing offers superior environmental protection to a wide range of irregular shapes with varying dimensions. The jacket is flame retarded to reduce flame propagation.

Temperature rating

Operating temperature range	-55°C to +125°C
Minimum shrink temperature:	+80°C
Minimum full recovery temperature:	+110°C

Ordering information



Inside diameter		Wall thickness	Wall thickness		Standard package	
D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Total wall recovered after heating	W1 (nom) Meltable wall recovered after heating	1.2 m length quantity		
mm	mm	mm	mm	m	Ordering description	
4.0	1.0	1.00	0.40	12	HTAT-4/1-0	
8.0	2.0	1.00	0.50	12	HTAT-8/2-0	
12.0	3.0	1.40	0.60	12	HTAT-12/3-0	
16.0	4.0	1.75	0.75	12	HTAT-16/4-0	
24.0	6.0	2.25	0.80	12	HTAT-24/6-0	
32.0	8.0	2.50	1.00	6	HTAT-32/8-0	
48.0	13.0	2.54	1.00	6	HTAT-48/13-0	

The largest size that will recover snugly over the component to be covered should be ordered. The wall thickness of the tubing will be less than specified if recovery is restricted during shrinkage. Other lengths, colours (colour coded by size) and sizes are available subject to special order.

Standard colours

Colour	Black
Code	0

HTAT

Performance

Test	Test method	Test requirement		
Tensile strength:	ISO 37	9 MPa (min)		
Ultimate elongation:	ISO 37	300% (min)		
Inner wall adhesion: HTAT to aluminium		80 N per 25 mm (min)		
Heat shock:	4 h at 225°C	Pass - no dripping, cracking or flowing of outer wall		
Heat ageing:	168 h at 150°C	Pass - no dripping, cracking or flowing of outer wall		
Low temperature flexibility:	4 h at -55°C	Pass - no cracking		
Dielectric strength:	IEC 243	12 MV/m (min)		
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength: Ultimate elongation:	7 MPa (min) 300% (min)	
	Test fluids:	Diesel fuel (BS 2869 class A1) Hydraulic fluid (H-515) Lubricating oil (O-149)		
	For full product performance de	etails consult Raychem Spe	cification RW 2052.	

Specifications

Raych	em Specification RW 2052.
Install	ation instructions available on request.
Mater	ial Safety Data Sheet available on request.

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