

tyco

Electronics

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 substrates, at elevated temperatures. Manufactured by Raychem from radiation

- 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

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		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	Ordering description
mm	mm	mm	mm	m	
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: 7 MPa (min) Ultimate elongation: 300% (min)
Test fluids:		Diesel fuel (BS 2869 class A1) Hydraulic fluid (H-515) Lubricating oil (O-149)

For full product performance details consult Raychem Specification RW 2052.

Specifications

Raychem Specification RW 2052.

Installation instructions available on request.

Material Safety Data Sheet available on request.

Raychem and HTAT are trademarks of Raychem Interconnect, a division of Tyco Electronics Corporation.

Raychem Interconnect
Cheney Manor Industrial Estate
Swindon, Wiltshire SN2 2QE
Tel: (44)-1793-528171
Fax: (44)-1793-616652

All of the above information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Tyco Electronics makes no warranties as to the accuracy or completeness of the information and disclaims any liability regarding its use. Tyco Electronics only obligations are those in the Standard Terms and Conditions of Sale for this product and in no case will Tyco Electronics be liable for any incidental, indirect or consequential damages arising from the sale, resale, use or misuse of the product. Tyco Electronics Specifications are subject to change without notice. In addition Tyco Electronics reserves the right to make changes in materials or processing, without notification to the Buyer, which do not affect compliance with any applicable specification.

RI0018.1299