

Raychem

Raychem HFT5000 products are made of very flexible heat-shrinkable fabric material. Heated above 110°C, they shrink and fit snugly and securely around the underlying substrate. Designed primarily to provide mechanical abrasion protection for components such as rubber hoses, plastic pipes, and harness wiring

- · Highly flexible woven fabric tubing
- Polyethylene/polyester construction for excellent abrasion resistance
- · Low shrink temperature
- · Halogen free
- 2:1 shrink ratio

HFT5000

Heat-shrinkable fabric tubing

bundles, they are also suitable for other applications, such as noise and rattle suppression.

Woven from heat-shrinkable circumferential polyolefin filaments and non-shrinking longitudinal polyester fibers, the product is halogen free. The woven construction makes HFT5000

extremely flexible and resistant to trapping water, heat and humidity. It provides outstanding abrasion, chafing and cutting protection, even at high temperatures. HFT5000 product is easy to install and can be cut with standard industrial cutting equipment.



Heat-shrinkable materials grip substrates without additional fixing.

Highly flexible woven construction allows easy, compliant installation onto awkward substrates such as bent hoses.

Features/Benefits

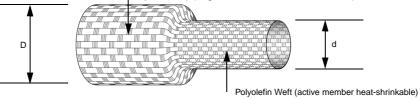
- Heat-shrinkable, to grip substrates tightly
 Outstanding abrasion resistance over a
 Easily cut with standard industrial without additional fixing.
- 2:1 shrink ratio for easy installation onto Resistance to harsh environments. different substrate diameters and sizes.
- Highly flexible woven construction for easy, compliant installation onto awkward substrates such as bent hoses.
- wide temperature range.
- Multifilament construction that ensures soft, safe handling.
- cutting equipment.
- Low shrink temperature for safe • installation onto heat sensitive substrates

Woven fabric tubing with 2:1 shrink ratio for easy installation.

HFT5000

Ordering information

Polyester Warp (longitudinal member non heat-shrinkable)



Standard sizes

	Inside diameter (mm/ <i>in</i>)						
Product description D (min.) expanded as supplied		d (max.) recovered after heating		Spool quantity (m/ <i>ft</i>)			
HFT5000-12/6-0-SP	12	(0.47)	6	(0.24)	500	(1640)	
HFT5000-20/10-0-SP	20	(0.79)	10	(0.39)	400	(1312)	
HFT5000-30/15-0-SP	30	(1.18)	15	(0.59)	400	(1312)	
HFT5000-40/20-0-SP	40	(1.57)	20	(0.79)	300	(984)	
HFT5000-50/25-0-SP	50	(1.97)	25	(0.98)	200	(656)	
HFT5000-60/30-0-SP	60	(2.36)	30	(1.18)	200	(656)	
HFT5000-70/35-0-SP	70	(2.76)	35	(1.38)	150	(492)	

Non-standard high volume sizes

Inside diameter (mm/ <i>in</i>)							
Product description	D (min.) as supp) expanded llied	d (max.) after he	recovered ating	Spool qu (m/ <i>ft</i>)	antity	
HFT5000-25/12-0-SP	25	(0.98)	12	(0.47)	400	(1312)	
HFT5000-34/17-0-SP	34	(1.34)	17	(0.67)	350	(1148)	
HFT5000-80/40-0-SP	80	(3.15)	40	(1.57)	100	(328)	

Standard colours

Colour	Black
Standard packaging	1 spool per box

Note: • Fully recoverable fabric wall thickness: Approximately 1 mm (0.039 in).

Longitudinal change on full recovery is –10% to –20%.

• 0 = Black

Temperature rating

Operating temperature range (3000 hours):	-40°C to 125°C
Operating temperature range (1000 hours):	-40°C to 150°C
Minimum recovery temperature:	110°C (recommended recovery temperature 140°C to 190°C)
Maximum storage temperature:	60°C

Material(s) Description

Warp material	Polyester
Weft material	Irradiated, modified polyolefin
Coating	Modified polyolefin

HFT5000

Specifications

Raychem Specification	RW2060.	
Material Safety Data Sheet	Available on request.	
Installation instructions	Available on request.	

Typical HFT5000 Performance

Property	Test condition(s)	Performance*
Abrasion resistance	23°C	No wear to underlying rubber hose
(200g load, 0.3mm radius metal blade, 10Hz, 10mm stroke, 144 000 cycles)	80°C	No wear to underlying rubber hose
· · · · · · · · · · · · · · · · · · ·	135°C	No wear to underlying rubber hose
Thermal ageing	3000 hrs at 125 °C	No deterioration in abrasion resistance at 80°C
	1000 hrs at 150°C	No deterioration in abrasion resistance at 80°C
Flammability	MVSS302	Pass
Low temperature flexibility	4 hours at -40°C, 10X diameter mandrel	No cracking
Cold impact	200g weight from 100mm at -40°C	No cracking
Temperature/humidity cycling	See RW2060 for details	No deterioration in abrasion resistance at 80°C
Thermal shock	100 cycles between -40°C and 125°C	No deterioration in abrasion resistance at 80°C
Fluid resistance	24 hr immersion at 23°C	No deterioration in abrasion resistance at 80°C
Antifreeze (50% ethylene glyc	ol)	
Engine oil (SAE 10w/30)		
Mineral hydraulic fluid		
Detergent (1% Teepol)		
Brake fluid (DOT 4)		
Unleaded gasoline		
Diesel fuel		
Battery acid (1.25 SG H ₂ SO ₄)		
*For full performance details consult Raychem Specification	RW2060.	

Raychem is a trademarks of Tyco Electronics Corporation.

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.

Tyco/Electronics/Raychem 306 Constitution Drive Menio Park, CA 94025 U.S.A Tel: (650)-361 3333 www.tycoelectronics.com

Tyco/Electronics/Raychem Cheney Manor Industrial Estate Swindon, Wiltshire SN2 2QE ŪK

Tel: (44)-1793 573762

Tyco/Electronics/Raychem 3816 Noborito, Tama-ku Kawasaki 214-8533 Japan Tel: (81)-44 9005102

Tyco/Electronics/Raychem No. 26 Ang Mo Kio Ind. Park Singapore 569507 Tel: (65)-4866151