

- 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

### 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

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.

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



Heat-shrinkable materials grip substrates without additional fixing.



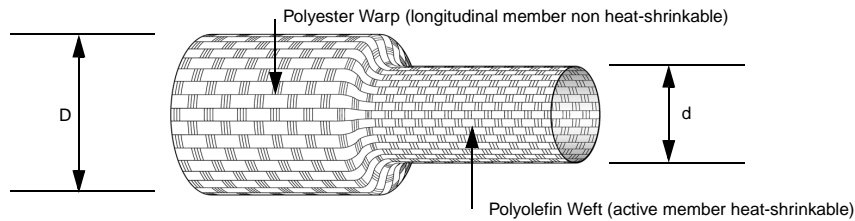
Highly flexible woven construction allows easy, compliant installation onto awkward substrates such as bent hoses.

#### Features/Benefits

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

# HFT5000

## Ordering information



### Standard sizes

Product description	Inside diameter (mm/ in)				Spool quantity (m/ ft)	
	D (min.) expanded as supplied		d (max.) recovered after heating			
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

Product description	Inside diameter (mm/ in)				Spool quantity (m/ ft)	
	D (min.) expanded as supplied		d (max.) recovered after heating			
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

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# HFT5000

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## Specifications

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

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## Typical HFT5000 Performance

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Property	Test condition(s)	Performance*
Abrasion resistance (200g load, 0.3mm radius metal blade, 10Hz, 10mm stroke, 144 000 cycles)	23°C	No wear to underlying rubber hose
	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 glycol)	
	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 <sub>2</sub> SO <sub>4</sub> )	

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\*For full performance details consult Raychem Specification RW2060.

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