

- Easy to store
- Easy to dispense
- Single wall and adhesive lined tubings
- 2:1 and 3:1 shrink ratios

# RaySpool

Convenient packaging and dispensing system for heat-shrinkable tubing

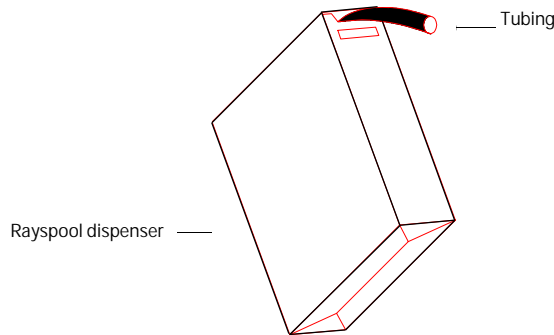
RaySpool offers a convenient packaging and dispensing option for a range of heat-shrinkable tubings. The tubing is supplied on small reels which are overboxed and feature a dispensing window allowing the tubing to be easily and readily accessed. The RaySpool

system will offer an ideal method of storing and using heat-shrinkable tubing for the workshop, service vehicle or laboratory.

A wide selection of different tubings are offered which will cover a diverse range of applications including electrical

insulation, strain relief, cable bundling and environmental protection.

Also available are RaySpool kits which comprise 6 boxes of RaySpool of the sizes indicated (x). The boxes are supplied with a mounting rack.



## CGPT

A flexible, flame retarded general purpose heat-shrinkable tubing. Available in 2:1 and 3:1 shrink ratios its unique blend of chemical, electrical and physical properties makes it suitable for a wide

range of applications including electrical insulation, strain relief, cable bundling, colour coding and identification of wires, cables, pipes and electrical and electronic components.

## Ordering information



	Inside diameter		Wall thickness	Standard package		
	D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Recovered after heating	Spool quantity Black	Green/Yellow	Ordering description
	mm	mm	mm	m	m	
2:1 Shrink ratio	1.6	0.8	0.45	10.0	-	CGPT-R-1.6-colour code
	2.4 <sup>x</sup>	1.2	0.50	10.0	-	CGPT-R-2.4-colour code
•	3.2 <sup>x</sup>	1.6	0.50	10.0	5.0	CGPT-R-3.2-colour code
	4.8 <sup>x</sup>	2.4	0.50	9.0	-	CGPT-R-4.8-colour code
•	6.4 <sup>x</sup>	3.2	0.65	8.0	3.5	CGPT-R-6.4-colour code
•	9.5	4.8	0.65	6.0	3.0	CGPT-R-9.5-colour code
•	12.7 <sup>x</sup>	6.4	0.65	6.0	2.5	CGPT-R-12.7-colour code
•	19.0	9.5	0.75	5.0	2.0	CGPT-R-19.0-colour code
•	25.4 <sup>x</sup>	12.7	0.90	3.0	1.5	CGPT-R-25.4-colour code
	Kit contains sizes indicated by <sup>x</sup>					CGPT-R-KIT-2

## Standard colours

Colour	Black	Green/Yellow Striped
Code	0	45 (Sizes marked *)

# RaySpool

## CGPT - Ordering information

	Inside diameter		Wall thickness	Standard package	
	D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Recovered after heating	Spool quantity	Ordering description
	mm	mm	mm	m	
3:1 Shrink ratio	3.0 <sup>x</sup>	1.0	0.55	10.0	CGPT-R-3.1-colour code
	6.0 <sup>x</sup>	2.0	0.65	7.0	CGPT-R-6.2-colour code
	9.0 <sup>x</sup>	3.0	0.75	5.0	CGPT-R-9.3-colour code
	12.0 <sup>x</sup>	4.0	0.75	4.0	CGPT-R-12.4- colour code
	18.0 <sup>x</sup>	6.0	0.85	3.0	CGPT-R-18.6- colour code
	24.0 <sup>x</sup>	8.0	1.00	3.0	CGPT-R- 24.8- colour code
Kit contains sizes indicated by <sup>x</sup> (black only)					CGPT-R-KIT-1

## Standard colours

Colour	Black	Red	Yellow	Blue
Code	0	2	4	6

## Temperature rating

Operating temperature range:	-40°C to +135°C
Minimum shrink temperature:	+80°C
Minimum full recovery temperature:	+120°C

## Performance

Test	Test method	Test requirement	
Heat ageing:	ISO188 (168 h at 150°C)	Ultimate elongation:	150% (min)
Corrosion resistance:	ASTM D2671 (16h at 175°C)	No corrosion of mirrors	
Dielectric strength:	IEC 243	$\varnothing \leq 25.4$	20 MV/m
		$\varnothing > 25.4$	10 MV/m
*Flame retardancy:	ASTM D2671 (Procedure B) UL 224 (All tube flame test)	Duration of burning 60s max.	
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength:	5 MPa (min)
		Ultimate elongation:	175% (min)
	Test fluids:	Petrol (100 octane) Lubricating oil (0.148) Hydraulic fluid (H515)	

\*Not clear product (X).

## Specifications

Raychem Specification RW 2059.

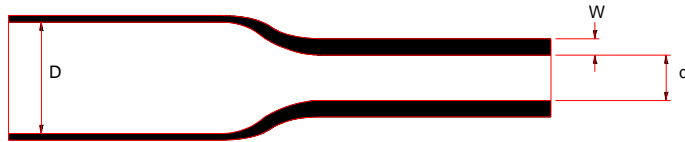
# RaySpool

## LSTT

A highly flexible low shrink temperature heat-shrinkable tubing. Easy to handle and install, its low shrink temperature (80°C) offers exceptionally fast recovery and suitability for use on or near delicate temperature sensitive materials. Although not flame retarded, LSTT meets the automotive flame propagation standard MVSS 302.

LSTT gives good physical and electrical performance. Typical applications are electrical termination insulation, covering of heat sensitive devices, cosmetic coverings and mechanical protection.

## Ordering information



	Inside diameter		Wall thickness	Standard package	
	D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Recovered after heating	Spool quantity	Ordering description
	mm	mm	mm	m	
2:1 Shrink ratio	2.4 <sup>x</sup>	1.2	0.55	10.0	LSTT-R-2.4-0
	3.2 <sup>x</sup>	1.6	0.55	10.0	LSTT-R-3.2-0
	4.8 <sup>x</sup>	2.4	0.55	9.0	LSTT-R-4.8-0
	6.4 <sup>x</sup>	3.2	0.65	8.0	LSTT-R-6.4-0
	9.5	4.8	0.65	6.0	LSTT-R-9.5-0
	12.7 <sup>x</sup>	6.4	0.65	6.0	LSTT-R-12.7-0
	19.0	9.5	0.80	5.0	LSTT-R-19.0-0
	25.4 <sup>x</sup>	12.7	0.95	3.0	LSTT-R-25.4-0
	Kit contains sizes indicated by <sup>x</sup>				LSTT-R-KIT -1

## Standard colours

Colour	Black
Code	0

To ensure dimensional stability, LSTT should be stored at temperatures not exceeding 40°C.

## Temperature rating

Operating temperature range:	-40°C to +105°C
Minimum recovery temperature:	+80°C

# RaySpool

## Performance

Test	Test method	Requirement
Heat Ageing:	ISO 188 (168h at 125°C)	Tensile strength:15 MPa (min) Ultimate elongation:300% (min)
Corrosion resistance:	ASTM D2671 (16h at 150°C)	No corrosion of mirrors
Flame retardancy:	MVSS 302	100 mm/min (max)
Fluid resistance:	24 h at 23°C, ISO 37 Ultimate elongation	Tensile strength: 15 MPa (min) 200% (min)
		Hydraulic fluid (J1703) Battery acid Anti freeze

For full product performance details consult Raychem Specification RW 2051.

To ensure dimensional stability, LSTT should be stored at temperatures not exceeding 40°C.

## Specifications

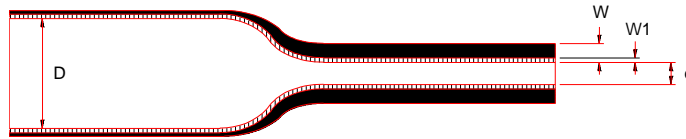
Raychem Specification RW 2051.

## CGAT

A flexible adhesive lined heat-shrinkable tubing. It has a flame retarded jacket and offers a balance of both electrical insulation

and environmental sealing. Typical applications are environmental sealing for electrical components, wire breakouts and cable jackets.

## Ordering information



	Inside diameter		Wall thickness		Standard package	
	D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Recovered after heating	W1 (nom) Melttable wall recovered after heating	Spool quantity	Ordering description
	mm	mm	mm	mm	m	
3:1 Shrink ratio	3.0 <sup>x</sup>	1.0	1.00	0.5	5.0	CGAT-R-3/1-0
	6.0 <sup>x</sup>	2.0	1.00	0.5	3.5	CGAT-R-6/2-0
	9.0 <sup>x</sup>	3.0	1.35	0.6	3.0	CGAT-R-9/3-0
	12.0 <sup>x</sup>	4.0	1.50	0.7	2.5	CGAT-R-12/4-0
	18.0 <sup>x</sup>	6.0	1.70	0.8	2.0	CGAT-R-18/6-0
	24.0 <sup>x</sup>	8.0	1.95	1.0	1.5	CGAT-R-24/8-0
Kit contains sizes indicated by <sup>x</sup>					1.5	CGAT-R-KIT-1

## Standard colours

Colour	Black
Code	0

## Temperature rating

Operating temperature range:	-30°C to +80°C
Minimum shrink temperature:	+80°C
Minimum full recovery temperature:	+115°C

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# RaySpool

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## Performance

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Heat ageing:	168 h at 150°C ISO188
Corrosion resistance:	Non-corrosive ASTM D2671
Dielectric strength:	12 MV/m (min) IEC 243
Fluid resistance:	Meets requirements of ISO 37,

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For full product performance details consult Raychem Specification RW 2050

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## Specifications

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Raychem Specification RW 2050.

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