

- Outstanding all round performance
- Excellent physical and electrical performance
- Good chemical and solvent resistance
- Flexible

## RNF-3000

A premium grade heat-shrinkable tubing made with a 3:1 shrink ratio to cover a wide range of substrates easily with a small range of sizes to keep inventory costs low.

RNF-3000 premium grade 3:1 shrink ratio polyolefin based heat-shrinkable tubing offers an outstanding overall balance of properties. The product has a wide range of both military and industrial approvals.

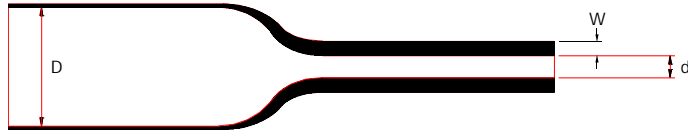
RNF-3000 tubing possesses a unique blend of physical, chemical and electrical properties and is suitable for a wide range of applications. The 3:1 shrink ratio allows for installation onto a wide range of substrate sizes with a small number of tubing sizes so inventory costs can be

kept low. Used extensively in military applications for lightweight harness jackets, insulation, colour coding, identification, protection against fluids and provides mechanical strength.

### Temperature rating

Operating temperature range:	-55°C to +135°C
Minimum shrink temperature:	+80°C
Minimum full recovery temperature:	+120°C

Ordering information



Inside diameter		Wall thickness	Standard package			Ordering description
D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Recovered after heating	1.2 m Length quantity	Spool quantity		
mm	mm	mm	m	m		
1.5	0.5	0.45	60	300	RNF-3000-1.5/0.5-colour code	
3.0	1.0	0.55	60	150	RNF-3000-3/1-colour code	
6.0	2.0	0.65	30	75	RNF-3000-6/2-colour code	
9.0	3.0	0.75	24	75	RNF-3000-9/3-colour code	
12.0	4.0	0.75	24	75	RNF-3000-12/4-colour code	
18.0	6.0	0.85	24	75	RNF-3000-18/6-colour code	
24.0	8.0	1.00	18	30	RNF-3000-24/8-colour code	
39.0	13.0	1.15	12	30	RNF-3000-39/13-colour code	

### Standard colours

Colour	Clear	Black	Brown	Red	Orange	Yellow
Code	X	0	1	2	3	4
Colour	Green	Blue	Violet	Grey	White	
Code	5	6	7	8	9	

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# RNF-3000

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## Approvals

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*UL File E35586	Def Stan 59-97 Type 2b
*CSA LR31929	BS 4G 198 Part 3 11B
VG 95343 Part 5 Type A and B	
VDE 0341/Pt 9005 Type A and B	
*Not clear product (X).	

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## Performance

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Test	Test method	Test requirement
Heat Ageing:	ISO 188 (168h at 175°C)	Ultimate elongation:150% (min)
Corrosion resistance:	ASTM D2671 (16h at 175°C)	No corrosion of mirrors
Dielectric strength:	IEC 243	20 MV/m
*Flame retardancy:	ASTM D876 UL 224 (All tube flame test)	Duration of burning 30 s max
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength: 5 MPa (min) Ultimate elongation: 200% (min)
	Test fluids:	Aircraft fuel to ISO1817 liquid B Phosphate ester ISO1817 liquid 103 Lubricating oil ISO1817 liquid 101

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\*Not clear product (X).

For full product performance details consult Raychem Specification RW 2053.

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## Specifications

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Raychem Specification RW 2053.

Material Safety Data Sheet available on request.

Installation instructions available on request.

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