

A premium grade flame-retarded polyolefin heat-shrinkable tubing.

Outstanding all round performance, excellent physical and electrical performance, good chemical and solvent resistance, flexible.

RNF-100 is a premium grade polyolefin based heat-shrinkable tubing with an outstanding overall balance of properties. The product has a wide range of both military and

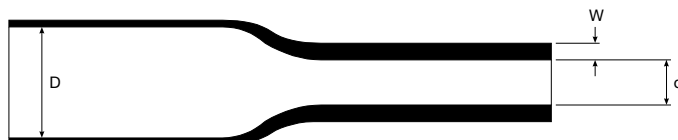
industrial approvals. RNF-100 tubing possesses a unique blend of physical, chemical and electrical properties and is suitable for a wide range of applications.

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

## Temperature rating

Operating temperature range:	-55°C to +135°C
Minimum shrink temperature:	+95°C
Minimum full recovery temperature:	+121°C

## Ordering information



Inside diameter		Wall thickness	Standard package		Ordering description
D (min)	d (max)	W (nom)	1.22m Length quantity	Spool quantity	
Expanded as supplied	Recovered after heating	Recovered after heating			
mm	mm	mm	m	m	
1.2	0.6	0.45	60	300	RNF-100- <sup>3</sup> / <sub>64</sub> -color code
1.6	0.8	0.45	60	300	RNF-100- <sup>1</sup> / <sub>16</sub> -color code
2.4	1.2	0.50	60	150	RNF-100- <sup>3</sup> / <sub>32</sub> -color code
3.2	1.6	0.50	60	150	RNF-100- <sup>1</sup> / <sub>8</sub> -color code
4.8	2.4	0.50	60	150	RNF-100- <sup>3</sup> / <sub>16</sub> -color code
6.4	3.2	0.65	30	75	RNF-100- <sup>1</sup> / <sub>4</sub> -color code
9.5	4.8	0.65	30	121	RNF-100- <sup>3</sup> / <sub>8</sub> -color code-FSP*
12.7	6.4	0.65	30	90	RNF-100- <sup>1</sup> / <sub>2</sub> -color code-FSP*
19.0	9.5	0.75	30	60	RNF-100- <sup>3</sup> / <sub>4</sub> -color code-FSP*
25.4	12.7	0.90	30	60	RNF-100-1-color code-FSP*
31.0	16.0	0.95	12	30	RNF-100-1 <sup>1</sup> / <sub>4</sub> -color code
38.0	19.0	1.00	12	91	RNF-100-1 <sup>1</sup> / <sub>2</sub> -color code
51.0	25.4	1.15	6	30	RNF-100-2-color code
76.0	38.0	1.25	6	15	RNF-100-3-color code
102.0	51.0	1.40	6	15	RNF-100-4-color code
127.0	63.5	1.52	6	30	RNF-100-5-color code**

\*Material supplied on Flat Spooled Packaging (FSP) as standard.

\*\*Only available in black.

## Standard colors

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

## Approvals

*UL File E35586	Def Stan 59-97 Type 2b
*CSA LR31929	MIL-DTL-23053/5 Class 1 (colors), Class 2 (Clear) (exclude 1- <sup>3</sup> / <sub>4</sub> )
VG 95343 Part 5 Type A and B	BS 4G-198 Part 3 11B
VDE 0341/Pt 9005	

\* Not clear product (X).

## Performance

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	Ø ≤ 25.4 20 MV/m Ø > 25.4 10 MV/m
Flame retardancy:	ASTM D876 UL 224 (All tube flame test)	Duration of burning 30s max
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength: 7 MPa (min) Ultimate elongation: 200% (min)
Test fluids:	Aircraft fuel to ISO1817 liquid B Phosphate ester ISO1817 liquid 103 Lubricating oil ISO1817 liquid 101	

For full product performance details consult Raychem Specification RK 6001.

## Specifications

Raychem Specification RK 6001.

Material Safety Data Sheet available on request.

Installation instructions available on request.

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**Users should independently evaluate the suitability of the product for their application.**

Tyco Electronics Corporation	Tyco Electronics UK Ltd.	Tyco Electronics Raychem K.K.	Tyco Electronics Singapore Pte Ltd.
300 Constitution Drive Menlo Park, CA 94025-1164 USA Tel: (800) 926-2425 (US & Canada) Tel: +1 (650) 361-3860 (All other countries)	Faraday Road Dorcan, Swindon, SN3 5HH United Kingdom Tel: +44 1793 528171	3816 Noborito, Tama-ku Kawasaki, Kanagawa 214-8533 Japan Tel: +81 44 900 5102	Asia Pacific Headquarters 26 Ang Mo Kio, Industrial Park 2 Singapore 569507 Tel: +65 4866 151

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