

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

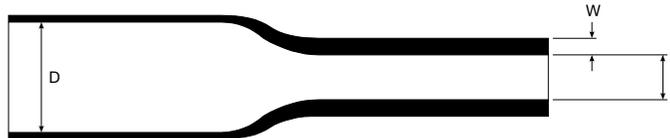
industrial approvals. RNF-100 tubing possesses a unique blend of physical, chemical and electrical properties and is suitable for a wide range of applications.

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)	Recovered after heating	1.22m Length quantity	Spool quantity	
Expanded as supplied	Recovered after heating	Recovered after heating				
mm	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.

Raychem and RNF-100 are trademarks of Tyco Electronics Corporation.

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

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

All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Tyco Electronics Corporation makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Electronics Corporation's only obligations are those in the Standard Terms and Conditions of Sale for these products and in no case will Tyco Electronics Corporation be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Tyco Electronics Corporation's Specifications are subject to change without notice. In addition, Tyco Electronics Corporation reserves the right to make changes in materials or processing without notification to the Buyer which do not affect compliance with any applicable specification.

**For more information about this product visit [www.tycoelectronics.com](http://www.tycoelectronics.com) and [www.raychem.com](http://www.raychem.com)**