RNF-100

Flexible, flame-retardant, general purpose polyolefin tubing
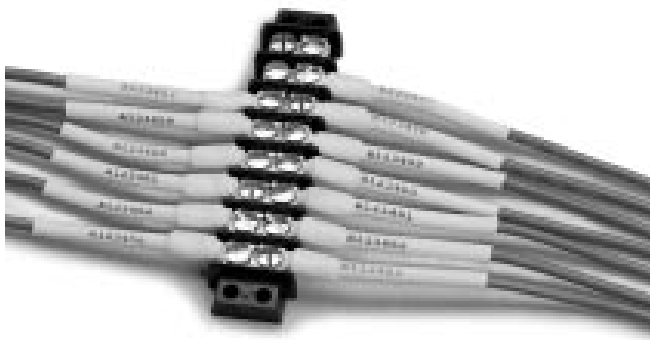
Applications

Designed to provide superior mechanical (abrasion, cut-through, and strain relief), thermal, and fluid-resistance performance in demanding environments. Widely used to provide insulation and strain relief of wire terminations and connections. Used for jacketing wire bundles and light-duty harnesses where superior abrasion resistance is a plus. Also used to identify and color-code electrical connections and wire bundles.

Operating Temperature Range
–55°C to 135°C

Features/Benefits
• 2:1 shrink ratio.
• Superior abrasion and solvent resistance when compared with that of many flexible, general purpose polyolefin tubings.
• Excellent physical, chemical, and electrical properties that meet or exceed industrial and military standards for highly reliable, general purpose tubing.
• Flexible; conforms to irregular shapes.
• Flame-retardant (colors only).
• Wide range of sizes and colors.

Installation
Minimum shrink temperature: 95°C
Minimum full recovery temperature: 121°C

Specifications/Approvals

Series	UL	CSA	Military	Industry	Raychem
RNF-100 Type 1 (colors)	E35586 600 V, 125°C	LR31929 600 V, 125°C	MIL-DTL-23053/5*, Class 1	VDE 0341 Pt 9005	RT-350, Type 1
			Def. Stan. 59-97 Type 26	Type A and B	RK-6001
RNF-100 Type 2 (clear)			MIL-DTL-23053/5*, Class 2		RT-350, Type 2
			VG 95343 Pt 5 Type B		RK-6001

*Formerly MIL-I-23053/5.

Product Dimensions (mm/*in*)

Size	Inside diameter — Minimum expanded as supplied		Maximum recovered after heating		Wall thickness Recovered after heating**	Size	Inside diameter — Minimum expanded as supplied		Maximum recovered after heating		Wall thickness Recovered after heating**
3/64	1.2	*(.046)*	0.6	*(.023)*	.40 ±.08 *(.016 ±.003)*	3/4	19.1	*(.750)*	9.5	*(.375)*	0.76 ±.08 *(.030 ±.003)*
1/16	1.6	*(.063)*	0.8	*(.031)*	.43 ±.08 *(.017 ±.003)*	1	25.4	*(1.000)*	12.7	*(.500)*	0.89 ±.12 *(.035 ±.005)*
3/32	2.4	*(.093)*	1.2	*(.046)*	.51 ±.08 *(.020 ±.003)*	1 1/4	31.8	*(1.250)*	15.9	*(.625)*	1.02 ±.15 *(.040 ±.006)*
1/8	3.2	*(.125)*	1.6	*(.062)*	.51 ±.08 *(.020 ±.003)*	1 1/2	38.1	*(1.500)*	19.1	*(.750)*	1.02 ±.15 *(.040 ±.006)*
3/16	4.8	*(.187)*	2.4	*(.093)*	.51 ±.08 *(.020 ±.003)*	2	50.8	*(2.000)*	25.4	*(1.000)*	1.14 ±.16 *(.045 ±.007)*
1/4	6.4	*(.250)*	3.2	*(.125)*	.64 ±.08 *(.025 ±.003)*	3	76.2	*(3.000)*	38.1	*(1.500)*	1.27 ±.20 *(.050 ±.008)*
3/8	9.5	*(.375)*	4.8	*(.187)*	.64 ±.08 *(.025 ±.003)*	4	101.6	*(4.000)*	50.8	*(2.000)*	1.40 ±.23 *(.055 ±.009)*
1/2	12.7	*(.500)*	6.4	*(.250)*	.64 ±.08 *(.025 ±.003)*	5	127.0	*(5.000)*	63.5	*(2.500)*	1.52 ±.23 *(.060 ±.009)*

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0, BK), white (-9, WH), red (-2, RD), blue (-6, BL), yellow (-4, YL), green (-5, GR), clear (-X, CL)
	Nonstandard	Brown (-1, BR), orange (-3, OR), violet (-7, VT), gray (-8, GY)
Size selection		Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.
Standard packaging		On spools, or in 1.2-meter (4-foot) lengths.
Ordering description		Specify product name, size (mm or in), and color (for example, RNF-100 1/4-0 [Eur.] or RNF-100 1/4-BK [U.S.]).

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