

## RNF-100

**Flexible, Flame-Retardant, General Purpose, Polyolefin Tubing**

### Product Facts

- 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
- RoHS compliant



### 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.

### Installation

Minimum shrink temperature: 95°C [203°F]  
 Minimum full recovery temperature: 121°C [250°F]

### Operating Temperature Range

-55°C to 135°C  
 [-67°F to 275°F]

### Specifications/Approvals

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

\*Formerly MIL-I-23053/5 and MIL-DTL-23053/5.

| Available in: | Americas | Europe | Asia Pacific |
|---------------|----------|--------|--------------|
|               | ■        | ■      | ■            |

**RNF-100** (Continued)

**Product Dimensions**

| Size  | Inside Diameter              |                                 | Recovered Wall Thickness**  |
|-------|------------------------------|---------------------------------|-----------------------------|
|       | Minimum Expanded as Supplied | Maximum Recovered After Heating | After Heating               |
| 3/64  | 1.2 [0.046]                  | 0.6 [0.023]                     | 0.40 ± 0.08 [0.016 ± 0.003] |
| 1/16  | 1.6 [0.063]                  | 0.8 [0.031]                     | 0.43 ± 0.08 [0.017 ± 0.003] |
| 3/32  | 2.4 [0.093]                  | 1.2 [0.046]                     | 0.51 ± 0.08 [0.020 ± 0.003] |
| 1/8   | 3.2 [0.125]                  | 1.6 [0.062]                     | 0.51 ± 0.08 [0.020 ± 0.003] |
| 3/16  | 4.8 [0.187]                  | 2.4 [0.093]                     | 0.51 ± 0.08 [0.020 ± 0.003] |
| 1/4   | 6.4 [0.250]                  | 3.2 [0.125]                     | 0.64 ± 0.08 [0.025 ± 0.003] |
| 3/8   | 9.5 [0.375]                  | 4.8 [0.187]                     | 0.64 ± 0.08 [0.025 ± 0.003] |
| 1/2   | 12.7 [0.500]                 | 6.4 [0.250]                     | 0.64 ± 0.08 [0.025 ± 0.003] |
| 3/4   | 19.1 [0.750]                 | 9.5 [0.375]                     | 0.76 ± 0.08 [0.030 ± 0.003] |
| 1     | 25.4 [1.000]                 | 12.7 [0.500]                    | 0.89 ± 0.12 [0.035 ± 0.005] |
| 1 1/4 | 31.8 [1.250]                 | 15.9 [0.625]                    | 1.02 ± 0.15 [0.040 ± 0.006] |
| 1 1/2 | 38.1 [1.500]                 | 19.1 [0.750]                    | 1.02 ± 0.15 [0.040 ± 0.006] |
| 2     | 50.8 [2.000]                 | 25.4 [1.000]                    | 1.14 ± 0.16 [0.045 ± 0.007] |
| 3     | 76.2 [3.000]                 | 38.1 [1.500]                    | 1.27 ± 0.20 [0.050 ± 0.008] |
| 4     | 101.6 [4.000]                | 50.8 [2.000]                    | 1.40 ± 0.23 [0.055 ± 0.009] |
| 5     | 127.0 [5.000]                | 63.5 [2.500]                    | 1.52 ± 0.23 [0.060 ± 0.009] |

\*\*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, BU), yellow (-4, YO), clear (-X, CL) |
|                          | Nonstandard                                                                                                                             | Brown (-1, BN), orange (-3, OR), green (-5, GN), 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 and color (for example, RNF-100 1/4-0 [Europe] or RNF-100 1/4-BK [Americas]).                                |                                                                                              |

\*\*\*Available in the convenient Mini-Spool packaging/dispensing system, for sizes 3/64" up to 1".

\*\*\*\*Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.

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