

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 600 V, 125°C | LR31929 600 V, 125°C | AMS-DTL-23053/5*, Class 1 Def. Stan. 59-97 Type 2B | VDE 0341 Pt 9005 Type A and B | RT-350, Type 1 RK-6001 |
| RNF-100 Type 2 (clear) | — | — | AMS-DTL-23053/5*, Class 2 VG 95343 Pt 5 Type B | — | RT-350, Type 2 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.

Mouser Electronics

Authorized Distributor

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[RNF-100-3/8-YO-FSP](#)