



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 and 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

Available in:

Americas

Europe

Asia Pacific



Specifications/approvals



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

Product dimensions (mm/in)

| 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 (0.020 ± 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), green (-5, GN), clear (-X, C) |
| | Nonstandard | Brown (-1, BN), 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 and color (for example, RNF-100 1/4-0 [Europe] or RNF-100 1/4-BK [Americas]). | |

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