

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

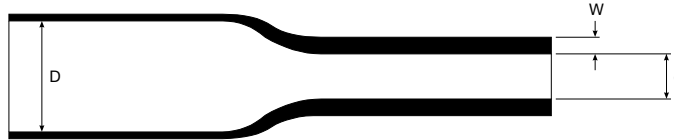
industrial approvals. RNF-100 tubing possesses a unique blend of physical, chemical and electrical properties and is suitable for a wide range of applications.

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 |                |   |
|----------------------|-------------------------|-------------------------|------------------|----------------|---|
| D (min)              | d (max)                 | W (nom)                 | 1.22m            |                |   |
| Expanded as supplied | Recovered after heating | Recovered after heating | Length quantity  | Spool quantity | Ordering description                                  |
| 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      |       |      |       |

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## 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).

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## 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<br>Ø > 25.4 10 MV/m                             |
| Flame retardancy:     | ASTM D876<br>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)<br>Ultimate elongation: 200% (min) |
| Test fluids:          | Aircraft fuel to ISO1817 liquid B<br>Phosphate ester ISO1817 liquid 103<br>Lubricating oil ISO1817 liquid 101 |  |

For full product performance details consult Raychem Specification RK 6001.

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## Specifications

Raychem Specification RK 6001.

Material Safety Data Sheet available on request.

Installation instructions available on request.

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

|  |   |  |  |
|--|---|--|--|
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|--|---|--|--|

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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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