

NT and NT-FR

Very flexible, rugged neoprene elastomer tubing

Fax-on-Demand: (800) 260-9099
(650) 361-6523

FAX ID Description
2100 Data sheet

Before ordering check with
factory for most current data.



Applications

Widely used for insulation, strain relief, and abrasion protection on cable harnesses and wire bundles in the military and aerospace industries. Especially suitable for applications requiring exposure to fluids and solvents at elevated temperatures.

Operating Temperature Range

-70°C to 121°C

Features/Benefits

- Remains flexible at low temperatures without cracking.
- Offers outstanding resistance to abrasion and physical abuse while providing the flexibility and strain relief needed for rugged applications.
- Resistant to most fluids and solvents, including aviation and ground-vehicle fuels, lubricating oil, and hydraulic fluids (see Raychem Specification RW-3012, RT-510).

Installation

Minimum shrink temperature: 90°C

Minimum full recovery temperature: 135°C

Specifications/Approvals

| Series | Military | Industry | Raychem |
|--------|---|--|---------|
| NT | | UL E35546 CSA LR31929 (Does not contain neoprene.) | RT-510 |
| NT-FR | MIL-DTL-23053/1*, Classes 1 & 2 MIL-R-46846, Type I, Class 1 SC-X-15112 | AMS 3623 | RW-3012 |

*Formerly MIL-I-23053/1.

Product Dimensions (mm/in)

| Size | Inside diameter | | | Size | Inside diameter | | |
|------|------------------------------|---------------------------------|--|-------|------------------------------|---------------------------------|--|
| | Minimum expanded as supplied | Maximum recovered after heating | Wall thickness Recovered after heating** | | Minimum expanded as supplied | Maximum recovered after heating | Wall thickness Recovered after heating** |
| 1/8 | 1.6 (.063) | 0.8 (.031) | 0.66 ±.20 (.026 ±.008) | 7/8 | 22.2 (.875) | 12.7 (.500) | 1.65 ±.38 (.065 ±.015) |
| 3/16 | 2.4 (.093) | 1.2 (.046) | 0.84 ±.25 (.033 ±.010) | 1 | 25.4 (1.000) | 14.5 (.570) | 1.77 ±.50 (.070 ±.020) |
| 1/4 | 3.2 (.125) | 1.6 (.062) | 0.88 ±.25 (.035 ±.010) | 1 1/4 | 31.8 (1.250) | 18.1 (.714) | 2.20 ±.50 (.087 ±.020) |
| 3/8 | 4.7 (.187) | 2.4 (.093) | 1.02 ±.25 (.040 ±.010) | 1 1/2 | 38.1 (1.500) | 21.8 (.857) | 2.41 ±.50 (.095 ±.020) |
| 1/2 | 6.4 (.250) | 3.2 (.125) | 1.21 ±.38 (.048 ±.015) | 1 3/4 | 44.5 (1.750) | 25.4 (1.000) | 2.71 ±.50 (.107 ±.020) |
| 5/8 | 9.5 (.375) | 4.7 (.187) | 1.32 ±.38 (.052 ±.015) | 2 | 50.8 (2.000) | 29.0 (1.140) | 2.79 ±.50 (.110 ±.020) |
| 3/4 | 12.7 (.500) | 6.4 (.250) | 1.44 ±.38 (.057 ±.015) | 3 | 76.2 (3.000) | 43.4 (1.710) | 3.18 ±.50 (.125 ±.020) |

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

Ordering Information

| | |
|----------------------|--|
| Color | Standard Black (-0) |
| 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. |
| Ordering description | Specify product name, size, and color (for example, NT-FR 1/4-0). |