

Very clear, thin-wall, flexible,  
fluoropolymer heat-shrinkable tubing

RT-375 is a highly flame-resistant, heat-shrinkable, thin-wall tubing that has excellent clarity. It is manufactured from a modified fluoropolymer whose properties include toughness, chemical resistance, and high-temperature performance.

A very thin wall gives RT-375 excellent flexibility.

Applications include protection of wire and cable markers subject to abuse; bundling and jacketing of wires and cables to protect them from mechanical and chemical abuse

while permitting full inspectability of the item covered; and protection of electronic components without losing the ability to identify the part.

RT-375 is UL-recognized and CSA-certified at 150°C, 600 V, with a VW-1 flame-retardancy rating.

**Temperature rating**

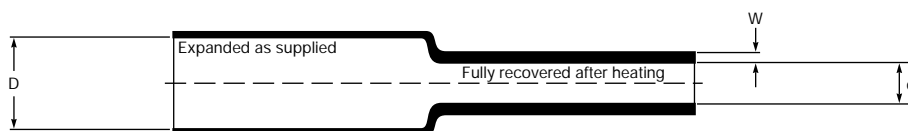
|   |                |
|---|----------------|
| Full recovery temperature:                                      | 150°C          |
| Continuous operating temperature:                               | -55°C to 150°C |
| Recommended maximum temperature for use as a primary insulator: | 135°C          |

**Specifications\***

| Type   | Raychem | Military                  | UL          | CSA          |
|--------|---------|---------------------------|-------------|--------------|
| RT-375 | RT-375  | AMS-DTL-23053/18, Class 2 | E85381 VW-1 | LR31929 VW-1 |

\*When ordering, always specify latest issue.

**Dimensions (millimeters/inches)**



| Size | Inside diameter                     |  | Wall thickness                    |               |
|------|-------------------------------------|--|-----------------------------------|---------------|
|      | D (min.)<br>Expanded<br>as supplied | d (max.)<br>Recovered<br>after heating | W<br>Recovered<br>after heating** |               |
| 3/64 | 1.2 0.046                           | 0.6 0.023                              | 0.25 ± 0.05                       | 0.010 ± 0.002 |
| 1/16 | 1.6 0.063                           | 0.8 0.031                              | 0.25 ± 0.05                       | 0.010 ± 0.002 |
| 3/32 | 2.4 0.093                           | 1.2 0.046                              | 0.25 ± 0.05                       | 0.010 ± 0.002 |
| 1/8  | 3.2 0.125                           | 1.6 0.062                              | 0.25 ± 0.05                       | 0.010 ± 0.002 |
| 3/16 | 4.8 0.187                           | 2.4 0.093                              | 0.25 ± 0.05                       | 0.010 ± 0.002 |
| 1/4  | 6.4 0.250                           | 3.2 0.125                              | 0.30 ± 0.08                       | 0.012 ± 0.003 |
| 3/8  | 9.5 0.375                           | 4.8 0.187                              | 0.30 ± 0.08                       | 0.012 ± 0.003 |
| 1/2  | 12.7 0.500                          | 6.4 0.250                              | 0.30 ± 0.08                       | 0.012 ± 0.003 |
| 3/4  | 19.1 0.750                          | 9.5 0.375                              | 0.43 ± 0.08                       | 0.017 ± 0.003 |
| 1    | 25.4 1.000                          | 12.7 0.500                             | 0.48 ± 0.08                       | 0.019 ± 0.003 |

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

**Ordering information**

|                      |  |
|----------------------|--|
| Color                | Clear  |
| Size selection       | Always order the largest size that will shrink snugly over the component being covered.<br>Special sizes may be made available upon request. |
| Standard packaging   | On spools  |
| Ordering description | Specify product name, size, and color; for example, RT-375 1/4-X (X=Clear).  |

## Specification values

|                    | Property   | Unit                          | Requirement   | Method of test                |
|--------------------|--|-------------------------------|---|-------------------------------|
| Physical           | Dimensions   | mm ( <i>inches</i> )          | See reverse   | ASTM D 2671                   |
|                    | Longitudinal change  | percent                       | +0, -10 maximum   | ASTM D 2671                   |
|                    | Tensile strength   | psi ( <i>MPa</i> )            | 3500 ( <i>24.1</i> ) minimum                                    | ASTM D 2671                   |
|                    | Ultimate elongation  | percent                       | 300 minimum   | ASTM D 2671                   |
|                    | Concentricity (expanded)   | percent                       | 70 minimum  | AMS-DTL-23053                 |
|                    | Secant modulus (expanded)  | psi ( <i>MPa</i> )            | 2.5 x 10 <sup>4</sup> ( <i>172</i> ) minimum                    | ASTM D 2671                   |
|                    | Specific gravity   |                               | 1.90 maximum  | ASTM D 2671                   |
|                    | Low-temperature flexibility<br>(4 hours at -55°C/-67°F)  |                               | No cracking   | AMS-DTL-23053                 |
|                    | Heat shock<br>(4 hours at 250°C/482°F)   |                               | No dripping, flowing,<br>or cracking                            | ASTM D 2671                   |
|                    | Heat resistance<br>(336 hours at 225°C/437°F)  |                               |   | ASTM D 2671                   |
|                    | Followed by test for:  |                               |   |                               |
|                    | Ultimate elongation  | percent                       | 100 minimum   | ASTM D 2671                   |
|                    | Clarity stability<br>(24 hours at 200°C/392°F)   |                               | Marking legible through<br>tubing wall                          | AMS-DTL-23053                 |
|                    | Electrical   | Dielectric strength           | volts/mil ( <i>volt/mm</i> )                                    | 400 ( <i>15.760</i> ) minimum |
| Volume resistivity |  | ohm-cm                        | 10 <sup>11</sup> minimum  | ASTM D 2671                   |
| Chemical           | Copper mirror corrosion<br>(16 hours at 160°C/320°F)   |                               | Noncorrosive  | ASTM D 2671<br>Procedure A    |
|                    | Copper contact corrosion<br>(16 hours at 160°C/320°F)  |                               | No pitting or blackening<br>of copper                           | ASTM D 2671<br>Procedure B    |
|                    | Flammability   |                               | Self-extinguishing within<br>1 minute, 25% maximum<br>flag burn | ASTM D 2671<br>Procedure C    |
|                    | Fungus resistance  |                               |   | ISO 846                       |
|                    | Followed by tests for:   |                               |   | Method B                      |
|                    | Tensile strength   | psi ( <i>MPa</i> )            | 3500 ( <i>24.1</i> ) minimum                                    | ASTM D 2671                   |
|                    | Ultimate elongation  | percent                       | 300 minimum   | ASTM D 2671                   |
|                    | Dielectric strength  | volts/mil ( <i>volts/mm</i> ) | 400 ( <i>15,760</i> ) minimum                                   | ASTM D 2671                   |
|                    | Water absorption<br>(24 hours at 23°C/73°F)  | percent                       | 0.5 maximum   | ASTM D 2671                   |
|                    | Fluid resistance<br>(24 hours at 50°C/122°F) in:<br>JP-8 fuel (MIL-T-5624)<br>Hydraulic fluid (MIL-H-5606)<br>Lubricating oil (MIL-L-23699)<br>Lubricating oil (MIL-L-7808)<br>5% NaCl, 0-S-1926<br>De-icing fluid (MIL-A-8243)<br>Water |                               |   | ASTM D 2671                   |
|                    | Followed by tests for:   |                               |   |                               |
|                    | Tensile strength   | psi ( <i>MPa</i> )            | 2000 ( <i>13.8</i> ) minimum                                    | ASTM D 2671                   |
|                    | Ultimate elongation  | percent                       | 250   | ASTM D 2671                   |
|                    | Dielectric strength  | volts/mil ( <i>volts/mm</i> ) | 400 ( <i>15,760</i> ) minimum                                   | ASTM D 2671                   |

Note: Consult RT-375 for specific details about test procedures.

Raychem is a trademark of Tyco Electronics Corporation.

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

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