



Semirigid, flame-retardant polyolefin heat-shrinkable tubing

RT-3 tubing is ideally suited for wire strain-relief applications. It provides excellent strain relief and insulation of "weak points," transferring flex stress away from solder and crimp joints and other typically sensitive wire-splice and termination points.

RT-3 is especially well suited for semi-automated production

equipment requiring tubing with a tightly controlled expanded diameter. Sizes and expansion ratios of RT-3 are available for specific spade/disconnect terminals.

RT-3 tubing is made from a semirigid, radiation-crosslinked, flame-retardant polyolefin. Unlike other typical flame-retardant tubings, RT-3 tubing is free

of polybrominated biphenyls (PBBs) and polybrominated biphenyl oxides (PBBOs). In Europe, these chemicals are classified as environmentally hazardous substances.

RT-3 is UL-recognized in all colors and CSA- certified in black at 125°C, 600 V.

Temperature rating

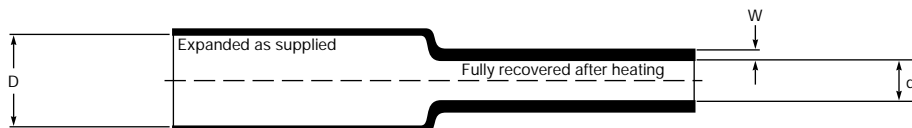
| | |
|-----------------------------------|----------------|
| Full recovery temperature: | 135°C |
| Continuous operating temperature: | -55°C to 135°C |

Specifications*

| Type | Raychem | UL | CSA |
|------|----------|--------|----------------------|
| RT-3 | RT-360** | E35586 | LR31929 (Black only) |

* When ordering, always specify latest issue.
 ** Except dimensions and longitudinal change.

Dimensions (millimeters/inches)



| Size* | Inside diameter | | Wall thickness | |
|------------|--------------------------|----------------------------------|------------------------------|--|
| | D Expanded as supplied | d (max.) Recovered after heating | W Recovered after heating*** | |
| RT-3 No. 1 | 6.1 ± 0.4 0.240 ± 0.015 | 2.4 0.095 | 0.79 ± 0.08 0.031 ± 0.003 | |
| RT-3 No. 2 | 8.1 ± 0.4 0.320 ± 0.015 | 3.2 0.125 | 0.79 ± 0.08 0.031 ± 0.003 | |
| RT-3 No. 3 | 9.5 ± 0.5 0.375 ± 0.020 | 3.8 0.150 | 0.79 ± 0.08 0.031 ± 0.003 | |
| RT-3 No. 4 | 12.3 ± 0.5 0.485 ± 0.020 | 5.1 0.200 | 0.79 ± 0.08 0.031 ± 0.003 | |

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

Ordering information

| | |
|----------------------|--|
| Color | Standard Black only. |
| Size selection | Always order the largest size that will shrink snugly over the component being covered. A variety of nonstandard sizes are available. |
| Standard packaging | 1-inch cut-pieces or 4-foot lengths |
| Ordering description | Specify product name, size, and color; for example, RT-3 No. 1-0 (0=Black). |

Specification values

| | Property | Unit | Requirement | Method of test | |
|---|---|--|--|------------------------------|-------------|
| Physical | Dimensions | mm (<i>inches</i>) | See reverse | ASTM D 2671 | |
| | Longitudinal change | percent | +0, -10 | ASTM D 2671 | |
| | Tensile strength | psi (<i>MPa</i>) | 2000 (<i>13.8</i>) minimum | ASTM D 2671 | |
| | Ultimate elongation | percent | 200 minimum | ASTM D 2671 | |
| | Secant modulus (expanded) | psi (<i>MPa</i>) | 2.5 x 10 ⁴ (<i>172</i>) minimum | ASTM D 2671 | |
| | Specific gravity | | 1.35 maximum | ASTM D 2671 | |
| | Low-temperature flexibility (4 hours at -55°C/-67°F) | | No cracking | ASTM D 2671 | |
| | Heat shock (4 hours at 250°C/482°F) | | No dripping, flowing, or cracking | ASTM D 2671 | |
| Heat resistance (168 hours at 175°C/347°F) | | | ASTM D 2671 | | |
| | Followed by test for: | | | | |
| | Ultimate elongation | percent | 150 minimum | ASTM D 2671 | |
| Electrical | Dielectric strength | volts/mil (<i>kV/mm</i>) | 500 (<i>19.7</i>) minimum | ASTM D 2671 | |
| | Volume resistivity | ohm-cm | 10 ¹⁴ minimum | ASTM D 2671 | |
| Chemical | Copper mirror corrosion (16 hours at 150°C/302°F) | | Noncorrosive | ASTM D 2671 Procedure A | |
| | Copper contact corrosion (168 hours at 150°C/302°F) | | No pitting or blackening of copper | ASTM D 2671 Procedure B | |
| | Flammability | | Self-extinguishing within 1 minute; no more than 25% of indicator burned or charred; no falling, burning particles. | ASTM D 2671 Procedure B | |
| | Fungus resistance | | | ISO 846 Method B | |
| | | Followed by tests for: | | | |
| | | Tensile strength | psi (<i>MPa</i>) | 2000 (<i>13.8</i>) minimum | ASTM D 2671 |
| | | Ultimate elongation | percent | 200 minimum | ASTM D 2671 |
| | | Dielectric strength | volts/mil (<i>kV/mm</i>) | 500 (<i>19.7</i>) minimum | ASTM D 2671 |
| | | Water absorption (24 hours at 23°C/73°F) | percent | 0.5 maximum | ASTM D 2671 |
| | | Fluid resistance (24 hours at 23°C/73°F) in: JP-8 fuel (MIL-T-5624) Skydrol 500 Hydraulic fluid (MIL-H-5606) Aviation gasoline 100/300 (MIL-G-5572) Water | | | ASTM D 2671 |
| | | Followed by tests for: | | | |
| | | Dielectric strength | volts/mil (<i>kV/mm</i>) | 400 (<i>15.8</i>) minimum | ASTM D 2671 |
| | Tensile strength | psi (<i>MPa</i>) | 1600 (<i>11.0</i>) minimum | ASTM D 2671 | |

Note: Consult RT-360 for specific details about test procedures.

Skydrol is a trademark of Monsanto Company.

Raychem is a trademark of Tyco Electronics Corporation.

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

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