



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**

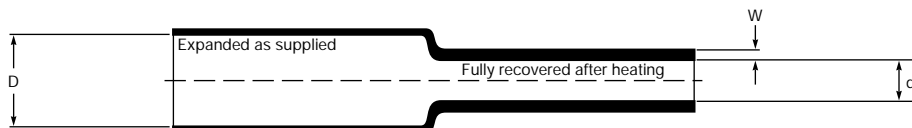
Full recovery temperature:	135°C
Continuous operating temperature:	-55°C to 135°C

**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 <sup>4</sup> ( <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 <sup>14</sup> 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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