

Medium wall, polyolefin heat-shrinkable tubing

Medium wall, general purpose RMW tubing is specifically designed for use in a broad range of low-voltage applications. RMW is tough and flexible, making it particularly suitable for the insulation and protection of cable joints in low voltage electrical systems as well as for cable repair. Uncoated RMW provides insulation and strain relief. Adhesive-lined RMW also provides an environmental seal.

RMW withstands mechanical abuse for increased product reliability. It is made from tough, abrasion-resistant,

crosslinked polyolefin which is resistant to impact and abrasion.

Adhesive-lined RMW provides a complete moisture-proof seal, preventing corrosion of underlying components. It is resistant to chemicals and moisture. The thermoplastic adhesive in RMW will adhere to most common polymeric- and elastomeric-insulated cables as well as to metals such as lead and aluminum.

Installation is fast and easy and requires no special skills. When heated,

RMW tubing shrinks quickly and conforms tightly to the substrate. While adhesive-lined RMW tubing is shrinking, the internal adhesive coating melts and flows to environmentally seal the splice, cable jacket or termination on which it is being installed.

RMW is the ideal choice for applications where maximum reliability and product performance, and simplified installation are required. Because RMW is heat-shrinkable, a minimum number of sizes are needed to cover a wide range of diameters.

Temperature rating

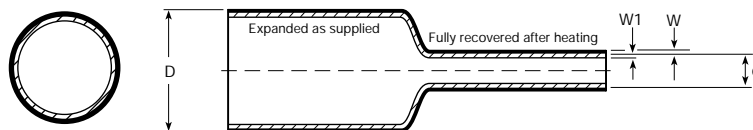
Full recovery temperature:	125°C
Continuous operating temperature:	-55°C to 110°C

Specifications*

Type	Raychem
RMW	RMW SCD

*When ordering, always specify latest issue.

Dimensions (millimeters/inches)



Size	Inside diameter		Recovered wall thickness**				Size	Inside diameter		Recovered wall thickness**							
	D (min.) Expanded as supplied	d (max.) Recovered after heating	W (nom.) Jacket wall	W1 (nom.) Adhesive wall	W (nom.) Jacket wall	W1 (nom.) Adhesive wall		D (min.) Expanded as supplied	d (max.) Recovered after heating	W (nom.) Jacket wall	W1 (nom.) Adhesive wall						
10/3	10	0.394	3	0.118	1.0	0.039	0.25	0.010	85/25	85	3.346	25	0.984	2.8	0.110	0.40	0.016
16/5	16	0.630	5	0.197	1.4	0.055	0.30	0.012	95/29	95	3.740	29	1.142	3.1	0.122	0.45	0.018
25/8	25	0.984	8	0.315	2.0	0.079	0.35	0.014	115/34	115	4.527	34	1.339	3.1	0.122	0.45	0.018
35/12	35	1.693	12	0.472	2.0	0.079	0.35	0.014	140/42	140	5.512	42	1.654	3.1	0.122	0.45	0.018
50/16	50	1.968	16	0.630	2.0	0.079	0.35	0.014	160/50	160	6.299	50	1.968	3.2	0.126	0.50	0.020
63/19	63	2.480	19	0.748	2.4	0.095	0.40	0.016	180/60	180	7.087	60	2.362	3.2	0.126	0.50	0.020
75/22	75	2.953	22	0.866	2.7	0.106	0.40	0.016									

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

Ordering information

Color	Black
Size selection	Always order the largest size that will shrink snugly over the component being covered.
Standard packaging	1200MM lengths
Marking	Tubing will be marked with the product name, size and batch number.
Ordering description	Specify product name, size, cut length, coating option and color; for example, RMW-25/8-1200/ADH-0 or RMW-75/22-1200/U-0 (ADH = Adhesive-lined, U=Uncoated, 0=Black).

Specification values

	Property	Unit	Requirement	Method of test
Material	Dimensions	mm (<i>inches</i>)	See reverse	ASTM D 412
	Longitudinal change	percent	+5, -15	ASTM D 792
	Tensile strength	psi (<i>MPa</i>)	2000 (<i>14</i>) minimum	ASTM D 412
	Ultimate elongation	percent	350 minimum	ASTM D 792
	Specific gravity		1.2 maximum	ASTM D 792
	Hardness	Shore D	50 to 70	ASTM D 2240
	Low temperature flexibility (4 hours at -55°C/-67°F)		No cracking	ASTM D 2671
Electrical	Heat resistance (168 hours at 150°C/302°F) Followed by test for:			
	Ultimate elongation	percent	350 minimum	ASTM D 2671
	Dielectric strength	volts/mil (<i>kV/mm</i>)	500 (<i>200</i>) minimum	ASTM D 149
Chemical	Volume resistivity	ohm-cm	1 x 10 ¹² minimum	ASTM D 257
	Corrosive effect (16 hours at 150°C/302°F)		Noncorrosive	ASTM D 2671 Procedure A
	Fungus resistance		Rating of 1 or less	ASTM G 21
	Water absorption (24 hours at 23°C/73°F)	percent	0.1 maximum	ASTM D 570
	Fluid resistance (168 hours at 23°C/73°F) in: VDE 0370 oil Followed by tests for:			ASTM D 2671
	Tensile strength	psi	85% minimum of original	ASTM D 2671
	Ultimate elongation	percent	85% minimum of original	ASTM D 2671

Typical performance values

	Property	Unit	Performance	Method of Test
Adhesive Properties	Softening point	°C	90 ± 10	ASTM E 28
	Peel Strength			ASTM D 1000
	Copper		10 lbs./in. width	
	Polyethylene		10 lbs./in. width	
	Adhesive Shear	psi	150 minimum	ASTM D 1002
	Aluminum to aluminum			
	Water absorption	percent	0.5 maximum	ASTM D 570
Corrosive effect (16 hours at 121°C/250°F)		Noncorrosive	ASTM D 2671 Procedure A	

Raychem is a trademark of Tyco Electronics Corporation.

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

Tyco Electronics Corporation

300 Constitution Drive
Menlo Park, CA 94025-1164
USA
Tel: (800) 926-2425 (US & Canada)
Tel: +1 (650) 361-3860 (All other countries)

Faraday Road
Dorcan, Swindon, SN3 5HH
United Kingdom
Tel: +44 1793 528171

3816 Noborito, Tama-ku
Kawasaki, Kanagawa 214-8533
Japan
Tel: +81 44 900 5102

Asia Pacific Headquarters
26 Ang Mo Kio, Industrial Park 2
Singapore 569507
Tel: +65 4866 151

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