tyco Electronics

RMW

Raychem

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

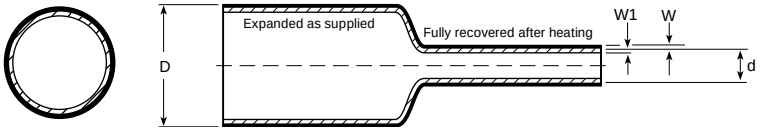
Full recovery temperature:	125°C
Continuous operating temperature:	–55°C to 110°C

*Specifications**

Type	Raychem
RMW	RMW SCD

*When ordering, always specify latest issue.

*Dimensions (*millimeters*/inches)*



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

**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 *(inches)*	See reverse	ASTM D 412
	Longitudinal change	percent	+5, –15	ASTM D 792
	Tensile strength	psi *(MPa)*	2000 *(14)* 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
	Heat resistance (168 hours at 150°C/*302°F*) Followed by test for: Ultimate elongation	percent	350 minimum	ASTM D 2671
Electrical	Dielectric strength	volts/mil *(kVmm)*	500 *(200)* minimum	ASTM D 149
	Volume resistivity	ohm-cm	1 x 10^{12} minimum	ASTM D 257
Chemical	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 Aluminum to aluminum	psi	150 minimum	ASTM D 1002
	Water absorption	percent	0.5 maximum	ASTM D 570
	Corrosive effect (16 hours at 121°C/*250°F*)		Noncorrosive	ASTM D 2671 Procedure A

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

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