



## Introducing RHW

Rugged, heavy wall RHW tubing is specifically designed for insulating, protecting and sealing electrical connections and joints in low-voltage cables. RHW is the ideal choice whenever maximum mechanical protection is required in an electrical insulation system. The material used to manufacture RHW is both halogen-free and UV resistant. It provides splice insulation thickness equal to or greater than standard wire insulation manufactured to common industry standards.

### KEY FEATURES

- Withstands mechanical abuse for increased product reliability
- Highly resistant to impact and abrasion
- Provides high level of strain relief when installed on splices and joints
- Resistant to chemicals, moisture and oils
- Provides a complete moisture-proof seal preventing corrosion of underlying components
- Available in sizes ranging from 12mm to 390mm as supplied to cover a wide range of cable sizes
- Adhesive liner specially formulated to seal to most common insulation materials including crosslinked polyolefin, PVC, neoprene and other elastomeric materials as well as most metals
- Easy to install with a torch or heat gun
- High shrink ratio to cover uneven substrates
- Halogen-free
- UV Resistant
- RoHS compliant

### APPLICATIONS

- Power Distribution
- Trucks and buses
- Heavy Equipment
- Rail cars and locomotives
- Shipyards
- Underground wells

### SAMPLES NOW AVAILABLE

[te.com/products/RHW](http://te.com/products/RHW)

### ELECTRICAL

- Heavy wall provides excellent electrical insulation

### MECHANICAL

- Heavy wall withstands mechanical abuse
- Highly resistant to impact and abrasion
- Provides high level of strain relief when installed on splices and joints

### TEMPERATURE RATING

- Full recovery temperature: 125°C [257°F]
- Operating Temperature range: -40°C to 110°C [-40°F to 230°F]

### STANDARDS AND SPECIFICATIONS

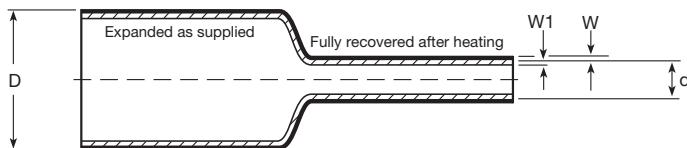
- RHW SCD
- UL File E91151 (Sizes 12/3 through 70/20 only)

### ORDERING INFORMATION

- Color: Black only
- Standard packaging: 1200MM lengths
- Ordering description: Specify product name, size, length, coating and color; for example, RHW-16/4-1200/ADH-0.
- Always order the largest size that will shrink snugly around the component being covered.
- Special cut lengths are available upon request.
- Marking: Tubing will be marked with product name, size and batch number.



## DIMENSIONS



Size	Minimum Expanded I.D. (D)		Maximum Recovered I.D. (d)		Minimum Recovered Jacket Wall (W minus W1)		Nominal Recovered Adhesive Wall (W1)	
	in.	mm.	in.	mm.	in.	mm.	in.	mm.
12/3	.472	12	.118	3	.079	2.0	.010	.25
16/4	.630	16	.158	4	.095	2.4	.012	.30
24/6	.945	24	.236	6	.106	2.7	.014	.35
34/8	1.339	34	.315	8	.157	4.0	.014	.35
48/12	1.890	48	.472	12	.177	4.5	.016	.40
56/16	2.205	56	.630	16	.173	4.4	.016	.40
70/20	2.756	70	.787	20	.173	4.4	.016	.40
90/25	3.543	90	.984	25	.169	4.3	.016	.40
110/30	4.331	110	1.181	30	.169	4.3	.018	.45
130/35	5.118	130	1.378	35	.169	4.3	.018	.45
160/50	6.299	169	1.968	50	.169	4.3	.018	.45
180/50	7.087	180	1.968	50	.169	4.3	.020	.50
200/50	7.874	200	1.968	50	.169	4.3	.020	.50
250/65	9.842	250	2.559	65	.169	4.3	.020	.50
320/95	12.598	320	3.740	95	.169	4.3	.024	.60
390/110	15.354	390	4.331	110	.169	4.3	.024	.60

## PRODUCT OFFERING

Material Description	Material Number	Material Description	Material Number
RHW-110/30-1200/ADH-0	CX7197-000	RHW-28/6-153/ADH-0	CX7203-000
RHW-12/3-1200/ADH-0	CX7208-000	RHW-34/8-1200/ADH-0	CX6254-000
RHW-130/35-1200/ADH-0	CX7199-000	RHW-34/8-206/ADH-0	CX7204-000
RHW-16/4-1200/ADH-0	CX7198-000	RHW-34/8-400/ADH/NM-0	CX6380-000
RHW-160/50-1200/ADH-0	CX7200-000	RHW-48/12-1200/ADH-0	CX7205-000
RHW-180/50-1200/ADH-0	CX7201-000	RHW-56/16-1200/ADH-0	CX6255-000
RHW-24/6-1200/ADH-0	CX7202-000	RHW-70/20-1200/ADH-0	CX7206-000
RHW-24/6-50/ADH-0	CX6686-000	RHW-90/25-1200/ADH-0	CX7207-000

Note: Material numbers for larger sizes will be created as needed.

## SAMPLE INVENTORY

RHW-12/3-1200/ADH-0
RHW-16/4-1200/ADH-0
RHW-24/6-1200/ADH-0
RHW-34/8-1200/ADH-0
RHW-48/12-1200/ADH-0
RHW-50/16-1200/ADH-0
RHW-70/20-1200/ADH-0
RHW-90/25-1200/ADH-0
RHW-110/30-1200/ADH-0
RHW-130/35-1200/ADH-0

[te.com/products/RHW](http://te.com/products/RHW)



## RMW PROPERTY REQUIREMENTS

Property	Unit	Requirement	Test Method
Dimensions	Inch (mm)	Table 1	ASTM D2671
Tensile Strength	psi (MPa)	1750 minimum (12)	ASTM D2671
Ultimate Elongation	Percent	350 minimum	ASTM D2671
Longitudinal Change	Percent	+5 to -15 maximum	ASTM D2671
Specific Gravity		1.2 maximum	ASTM D792
Hardness	Shore D	40 - 60	ASTM D2240
Low Temperature Flexibility 4 hrs @ -40°C		No cracking	ASTM D2671
Heat Resistance 168 h @150°C followed by Ultimate Elongation	Percent	350 minimum	ASTM D2671
Fungus Growth		Rating of 1 or less	ASTM G21
<b>ELECTRICAL</b>			
Dielectric Strength	V/mil (kV/cm)	300 minimum (120)	ASTM D149
Volume Resistivity	Ohm-cm	1 X 10 <sup>12</sup> minimum	ASTM D257
<b>CHEMICAL</b>			
Fluid Resistance 168 hrs @ 23°C			
Immersion in VDE 0370 oil followed by tests for:			
Tensile Strength	psi	1450 minimum (10)	ASTM D2671
Ultimate Elongation	Percent	300 minimum	
Corrosive Effect 16 hrs @ 150°C		Noncorrosive	ASTM D2671, Proc. A
Water Absorption 24 hrs @ 23°C	Percent	0.50 maximum	ASTM D570

## RMW &amp; RHW ORDERING DESCRIPTION

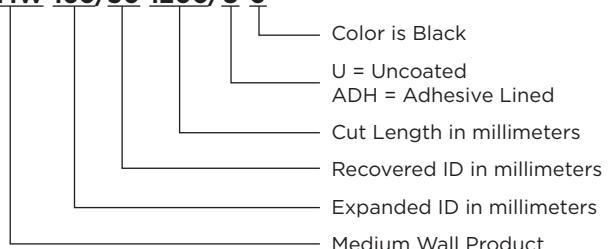
## Example 1:

RHW-130/36-1200/ADH-0



## Example 2:

RMW-160/50-1200/U-0



While TE has made every reasonable effort to ensure the accuracy of the information in this flyer, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this flyer are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

[te.com/products/RHW](http://te.com/products/RHW)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[RHW-70/20-1200/ADH-0](#)