



# 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

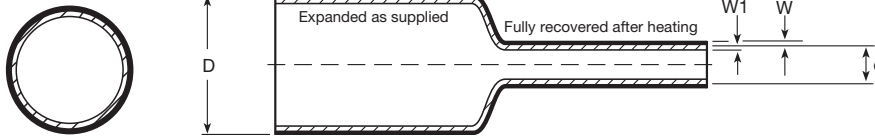
- RHW SCD
- UL File E91151 (Sizes 12/3 through 70/20 only)

## 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-O.
- 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
RHW-110/30-1200/ADH-O	CX7197-000
RHW-12/3-1200/ADH-O	CX7208-000
RHW-130/35-1200/ADH-O	CX7199-000
RHW-16/4-1200/ADH-O	CX7198-000
RHW-160/50-1200/ADH-O	CX7200-000
RHW-180/50-1200/ADH-O	CX7201-000
RHW-24/6-1200/ADH-O	CX7202-000
RHW-24/6-50/ADH-O	CX6686-000

Material Description	Material Number
RHW-28/6-153/ADH-O	CX7203-000
RHW-34/8-1200/ADH-O	CX6254-000
RHW-34/8-206/ADH-O	CX7204-000
RHW-34/8-400/ADH/NM-O	CX6380-000
RHW-48/12-1200/ADH-O	CX7205-000
RHW-56/16-1200/ADH-O	CX6255-000
RHW-70/20-1200/ADH-O	CX7206-000
RHW-90/25-1200/ADH-O	CX7207-000

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

**SAMPLE INVENTORY**

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

[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 & RHW ORDERING DESCRIPTION**

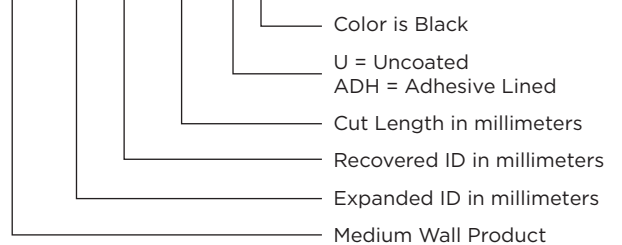
**Example 1:**

**RHW-130/36-1200/ADH-0**



**Example 2:**

**RMW-160/50-1200/U-0**



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