



# ATUM

High-Shrink-Ratio, Adhesive-Lined Polyolefin Tubing

## **Product Facts**

- 3:1 and 4:1 shrink ratios allow for connector-to-cable sealing
- Tubing environmentally seals and protects components and interconnections
- Medium wall provides increased mechanical protection
- The adhesive in ATUM tubing bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, aluminum, steel, and copper
- RoHS compliant



#### **Applications**

Environmentally seals and protects a wide variety of electrical applications, including back end connector sealing, breakouts, and connector-to-cable transitions. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors.

## Installation

Minimum shrink temperature: 80°C [176°F] Minimum full recovery temperature: 110°C [230°F]

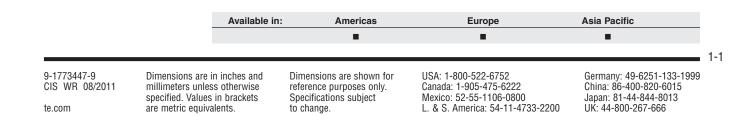
#### **Operating Temperature Range**

-55°C to 110°C [-67°F to 230°F]

#### **Specifications/Approvals**

Series	UL** <b>W</b>	Military	Raychem
ATUM	E85381 600V, 110°C	AMS-DTL-23053/4,* Class 3	RW-2063 - Black RK-6024 - Colors and clear
* Course a she All	LOOOFO/A and MUL DTL OO	050/4 01 0/4 0/0 40/4 04/0	0/10

\*Formerly MIL-I-23053/4 and MIL-DTL-23053/4. Sizes 3/1, 6/2, 12/4, 24/8, and 40/13 only. \*\*Black only, except sizes 3/1 and 4/1.





# ATUM (Continued)

# **Product Dimensions**

	Inside Diameter		Recovered Wall Thickness**	
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	Total Wall After Heating	Adhesive Wall After Heating (Nominal)
3:1				
3/1	3.0 [0.118]	1.0 [0.039]	1.00 ± 0.28 [0.039 ± 0.010]	0.50 [0.020]
4.5/1.5	4.5 [0.177]	1.5 [0.059]	1.10 ± 0.25 [0.043 ± 0.011]	0.50 [0.020]
6/2	6.0 [0.236]	2.0 [0.079]	1.00 ± 0.28 [0.039 ± 0.010]	0.50 [0.020]
9/3	9.0 [0.354]	3.0 [0.118]	1.40 ± 0.28 [0.055 ± 0.010]	0.61 [0.024]
12/4	12.0 [0.472]	4.0 [0.157]	1.78 ± 0.38 [0.070 ± 0.015]	0.76 [0.030]
19/6	19.0 [0.748]	6.0 [0.236]	2.25 ± 0.55 [0.088 ± 0.022]	0.76 [0.030]
24/8	24.0 [0.940]	8.0 [0.315]	2.54 ± 0.55 [0.100 ± 0.022]	1.02 [0.040]
40/13	40.0 [1.570]	13.0 [0.512]	2.54 ± 0.55 [0.100 ± 0.022]	1.02 [0.040]
4:1				
4/1	4.0 [0.157]	1.0 [0.039]	1.00 ± 0.28 [0.039 ± 0.010]	0.50 [0.020]
8/2	8.0 [0.315]	2.0 [0.079]	1.00 ± 0.28 [0.039 ± 0.010]	0.50 [0.020]
12/3	12.0 [0.472]	3.0 [0.118]	1.40 ± 0.28 [0.055 ± 0.010]	0.61 [0.024]
16/4	16.0 [0.630]	4.0 [0.157]	1.78 ± 0.38 [0.070 ± 0.015]	0.76 [0.030]
24/6	24.0 [0.945]	6.0 [0.236]	2.25 ± 0.55 [0.088 ± 0.022]	0.76 [0.030]
32/8	32.0 [1.260]	8.0 [0.315]	2.54 ± 0.55 [0.100 ± 0.022]	1.02 [0.040]
52/13	52.0 [2.050]	13.0 [0.512]	$2.54 \pm 0.55 [0.100 \pm 0.022]$	1.02 [0.040]

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

# **Ordering Information**

C	Color	Standard	Black (-0)	
		Nonstandard	Clear in 3:1 sizes only (-X, non-flame-retardant jacket); other colors available on request.	
S	Size selection	Always order the largest size that will shrink snugly over the component to be cover Special order sizes are available upon request.		
S	Standard packaging***	In 1.2-meter [4-foot] lengths or on spools.		
Ordering description**** Specify product name, size and color (for exam		Specify product name, size and	d color (for example, ATUM 8/2-0).	

\*\*\*Only 1.2 meter [4-foot] lengths are standard in the Americas. ATUM tubing on spools is nonstandard. \*\*\*\*For supply to MIL spec., add -MS to ordering description.

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9-1773447-9 CIS WR 08/2011 te.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-475-6222 Mexico: 52-55-1106-0800 L. & S. America: 54-11-4733-2200 Germany: 49-6251-133-1999 China: 86-400-820-6015 Japan: 81-44-844-8013 UK: 44-800-267-666

# **Mouser Electronics**

Authorized Distributor

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

TE Connectivity: ATUM-3/1-X-STK