

ATUM

High expansion ratio, adhesive-lined heat-shrinkable tubing

ATUM tubing is radiation-crosslinked, heat-shrinkable, and adhesive-lined to provide environmental sealing in a wide variety of electrical applications. The product is typically used to seal connector backshells and cable breakouts and to repair damaged cable.

ATUM has an internal adhesive coating that, when heated, melts and flows to form a positive environmental seal. The coating adheres to the outer

tubing and the surface below, creating an excellent barrier to moisture penetration. The adhesive bonds to a wide variety of plastics, rubbers, and metals, including PVC, polyethylene, rubber, and aluminum.

Because the tubing and adhesive are flexible, the moisture seal withstands bending of the substrate. This flexibility makes ATUM tubing ideal for cable repair. ATUM tubing is available with expansion ratios of both 3:1 and 4:1. These high expansion ratios make it possible to repair cables without removing connectors. Just a few sizes of ATUM tubing cover a wide range of substrates. ATUM is UL-recognized at 110°C, 600 V.

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Temperature rating

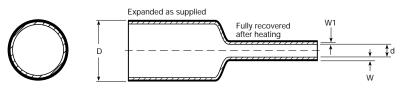
Full recovery temperature:	125°C
Continuous operating temperature:	–55°C to 110°C

Specifications*

			• 7 4	
Туре	Raychem	Military	UL	
ATUM	RW-2063 (Black only)	AMS-DTL-23053/4, Cl. 3	E85381**	
	RK-6024 (Clear and colors)			

*When ordering, always specify latest issue. **Except sizes 3/1 and 4/1.

Dimensions (millimeters/inches)



	Insid	de diameter	r		Rec	overed v	wall thic	kness***				Insi	de diame	eter		Recovere	d wall thickness**	
	D (n	nin.)	d (I	max.)	W				W1			D (r	nin.)	d (I	max.)	W		W1
	Ехр	anded	Re	covered	Tota	I			(nom	.)		Exp	anded	Re	covered	Total		(nom.)
Size	as s	supplied	aft	er heating	wall				Melta	able wall	Size	ass	supplied	aft	er heating	wall		Meltable wall
3:1											4:1							
3/1	3	0.118	1	0.039	1.00	0 ± 0.30	0.039	± 0.012	0.50	0.020	4/1	4	0.157	1	0.039	1.00 ± 0.	28 0.039 ± 0.010	0.50 0.020
4.5/1.5	4.5	0.177	1.5	5 0.059	1.00) ± 0.30	0.039	± 0.012	0.50	0.020	8/2	8	0.315	2	0.079	1.00 ± 0.	28 0.039 ± 0.010	0.50 0.020
6/2	6	0.236	2	0.079	1.00) ± 0.30	0.039	± 0.012	0.50	0.020	12/3	12	0.472	3	0.118	1.40 ± 0.	28 0.055 ± 0.010	0.61 0.024
9/3	9	0.354	3	0.118	1.40) ± 0.28	0.055	± 0.010	0.61	0.024	16/4	16	0.630	4	0.157	1.78 ± 0.	38 0.070 ± 0.015	0.76 0.030
12/4	12	0.472	4	0.157	1.78	8 ± 0.38	0.070	± 0.015	0.76	0.030	24/6	24	0.945	6	0.236	2.25 ± 0.	55 <i>0.088 ± 0.020</i>	0.76 0.030
19/6	19	0.748	6	0.236	2.25	5 ± 0.55	0.088	± 0.020	0.76	0.030	32/8	32	1.260	8	0.315	2.54 ± 0.	55 0.100 ± 0.020	1.00 0.040
24/8	24	0.940	8	0.315	2.54	± 0.55	0.100	± 0.020	1.00	0.040	52/13	52	2.050	13	0.512	2.54 ± 0.	55 0.100 ± 0.020	1.00 0.040
40/13	40	1.570	13	0.512	2.54	± 0.55	0.100	± 0.020	1.00	0.040								
***Wall th	icknes	ss will be less	s if tu	ubing recovery	is rest	ricted du	ıring shri	nkage.										

Ordering information

Colors	Standard	Black				
	Nonstandard	Clear (non-flame retardant jacket); other colors available on request.				
Size selection	Always order the la	Always order the largest size that will shrink snugly over the component being covered. Some special order sizes are available.				
Standard packaging	4-foot lengths					
Ordering description	Specify product na	ame, size, and color; for example, ATUM 6/2-0 (0=Black).				

Specification values

	Property	Unit	Requirement	Method of test		
Physical	Dimensions	mm <i>(inches)</i>	See reverse	ASTM D 2671		
	Longitudinal change	percent	+0, -15	ASTM D 2671		
	Tensile strength	psi	1300 minimum	ASTM D 2671		
	Ultimate elongation	percent	300 minimum	ASTM D 2671		
	Secant modulus (recovered)	psi	1.2 x 10 ⁴ maximum	ASTM D 2671		
	Low-temperature flexibility		No cracking	ASTM D 2671		
	(4 hours at –55°C/–67°F)					
	Heat shock (4 hours at 225°C/437°F)		No cracking, dripping, or flowing of outer wall	ASTM D 2671		
	Heat resistance (168 hours at 150°C/ <i>302°F</i>)		No cracking, dripping, or flowing of outer wall	ASTM D 2671		
lectrical	Dielectric strength	volts/mil	300 minimum	ASTM D 2671		
Chemical	Water absorption (24 hours at 23°C/ <i>73°F</i>)	percent	0.5 maximum	ASTM D 570		
	Corrosive effect (16 hours at 150°C/ <i>302°F</i>)		Non corrosive	ASTM D 2671 Procedure A		
	Flammability		60 second maximum	ASTM D 2671		
	(colors only, outer jacket only)		burning duration: no burning or charring of indicator	Procedure B		
	Fungus resistance			ISO 846		
	Followed by tests for:			Method B		
	Tensile strength	psi	1300 minimum	ASTM D 2671		
	Ultimate elongation	percent	300 minimum	ASTM D 2671		
	Inner wall adhesion:			T-PEEL		
	ATUM to RNF-100	lbs/inch	30 minimum	2"/minute		
	ATUM to aluminum	lbs/inch	10 minimum	2"/minute		
	Fluid resistance (24 hours at 23°C/ <i>73°F</i>) in: Diesel fuel (BS 2869 Class A1) Hydraulic fluid (MIL-H-5606) Lubricating oil (0-149)			AMS-DTL-23053		
	Followed by tests for:					
	Tensile strength	psi	1000 minimum	ASTM D 2671		
	Ultimate elongation	percent	300 minimum	ASTM D 2671		

Note: Consult RW-2063 for specific details about test procedures.

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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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 FP301-1/2-48"-Black
 FP301-12-48"-Black-Hdr

 Hdr
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 FP301-18-48"-Black-Hdr
 FP301-1/8-6"-Black
 FP301-18-6"-Black-Hdr

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 FP301-316-6"-Clear
 FP301-332-6"-Black
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 121-018-32
 121-018-40

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 121-001-09
 121-018-32
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