imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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ATUM

ATUM tubing is available with expansion ratios of both 3:1 and 4:1. These high

expansion ratios make it possible to

connectors. Just a few sizes of ATUM

tubing cover a wide range of substrates.

ATUM is UL-recognized at 110°C, 600 V.

repair cables without removing

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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

Temperature rating

ital seal.	This flexibility makes ATUM tubing
outer	ideal for cable repair.

tubing and the surface below, creating

penetration. The adhesive bonds to a

wide variety of plastics, rubbers, and

metals, including PVC, polyethylene,

Because the tubing and adhesive

withstands bending of the substrate

are flexible, the moisture seal

an excellent barrier to moisture

rubber, and aluminum.

 Full recovery temperature:
 125°C

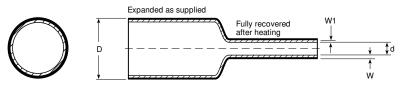
 Continuous operating temperature:
 -55°C to 110°C

Specifications*

			• 7 4	
Туре	Raychem	Military	UL	
ATUM	RW-2063 (Black only)	AMS-DTL-23053/4, Cl. 3	E85381**	
	RK-6024 (Clear and colors)			
*) & //	- 16 - 1-4 4 1			

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

Dimensions (millimeters/inches)



	Insi	de diameter	•		Recove	red w	all thick	(ness***				Insi	de diame	eter		Recov	ered v	vall thi	ckness***		
	D (n	nin.)	d (r	nax.)	W				W1			I) D	min.)	d (I	max.)	W				W1	
	Ехр	anded	Rec	covered	Total				(nom	ı.)		Exp	anded	Re	covered	Total				(nom.)	
Size	as s	supplied	afte	er heating	wall				Melta	able wall	Size	as	supplied	aft	er heating	wall				Meltab	le wall
3:1											4:1										
3/1	3	0.118	1	0.039	1.00 ±	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	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 ±	0.38	0.070 ±	t 0.015	0.76	0.030	24/6	24	0.945	6	0.236	2.25 ±	0.55	0.088	± 0.020	0.76 0	.030
19/6	19	0.748	6	0.236	2.25 ±	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	bing recovery	is restrict	ed dur	ring shrin	kage.													

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Ordering information

Colors	Standard	Black			
	Nonstandard	Clear (non-flame retardant jacket); other colors available on request.			
Size selection	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 n	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/ <i>437°F</i>)		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		
Electrical	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 (colors only, outer jacket only)		60 second maximum burning duration: no burning or charring of indicator	ASTM D 2671 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:		1000			
	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.

ATUM and Raychem are trademarks of Tyco Electronics Corporation.

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

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