

Semi-flexible, general purpose adhesive-lined, moisture proof heat-shrinkable tubing.
Provides excellent environmental sealing, 3:1 and 4:1 shrink ratios, high strength bonding, operating temperature -55°C to +110°C.

Atum is a semi-flexible, heat-shrinkable tubing with a meltable adhesive inner lining designed to provide moisture proof sealing to a wide range of substrates such as electrical wire vsplices,

cable jackets, wire breakouts and electrical components.

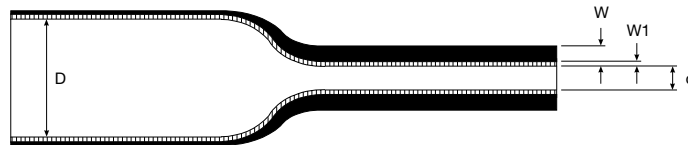
The high shrink ratios mean that only seven sizes are required to cover a wide range of substrate diameters.

Typical applications are environmental sealing of electrical components including wire splices and harness breakouts as well as sealing cable ends against moisture ingress.

Temperature rating

Operating temperature range:	-55°C to +110°C
Minimum shrink temperature:	+80°C
Minimum full recovery temperature:	+110°C

Ordering information



Inside diameter				Wall thickness				Standard package			
D (min)		d (max)		W (nom)		W1 (nom)		1.22m Length quantity		Ordering description	
Expanded as supplied		Recovered after heating		Total wall recovered after heating		Meltable wall recovered after heating					
mm	mm	mm	mm	mm	mm	mm	mm	m	m	3:1	4:1
3	4	1	1	1.00	1.00	0.5	0.5	30	30	Atum-3/1-color code	Atum-4/1-color code
4.5	-	1.5	-	1.10	-	0.5	-	30	-	Atum-4.5/1.5-color code	-
6	8	2	2	1.00	1.00	0.5	0.5	30	30	Atum-6/2-color code	Atum-8/2-color code
9	12	3	3	1.40	1.40	0.6	0.6	30	30	Atum-9/3-color code	Atum-12/3-color code
12	16	4	4	1.78	1.78	0.7	0.7	30	30	Atum-12/4-color code	Atum-16/4-color code
19	24	6	6	2.25	2.25	0.8	0.8	30	30	Atum-19/6-color code	Atum-24/6-color code
24	32	8	8	2.54	2.54	1.0	1.0	30	12	Atum-24/8-color code	Atum-32/8-color code
40	52	13	13	2.54	2.54	1.0	1.0	12	6	Atum-40/13-color code	Atum-52/13-color code

Standard colors

Standard color	Black	Clear				
Code	0	X (only 3:1)				
Non Standard color	Red	Yellow	Green	Blue	Grey	White
Code	2	4	5	6	8	9

Approvals

UL E85381 (Black only)
MIL-DTL-23053/4 Class 3 (Black only)
3:1 Shrink ratio only (excludes sizes 9/3, 19/6)
VG 95343 (clear 3:1 only)
VDE 0341/Pt 9012 (clear 3:1 only)

Performance

Test	Test method	Test requirement
Tensile strength:	ISO 37	9 MPa (min)
Ultimate elongation:	ISO 37	300% (min)
Inner wall adhesion: ATUM to aluminium		60 N per 25 mm (min)
Heat shock:	4 h at 225°C	Pass - no dripping, cracking or flowing of outer wall
Heat ageing:	168 h at 150°C	Pass - no dripping, cracking or flowing of outer wall
Low temperature flexibility:	4 h at -55°C	Pass - no cracking
Dielectric strength:	IEC 243	12 MV/m (min)
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength: 7 MPa (min) Ultimate elongation: 300% (min) Inner wall adhesion: 60 N per 25 mm (min)
	Test fluids:	Diesel fuel (BS 2869 class A1) Hydraulic fluid (H-515) Lubricating oil (O-149)

For full product performance details consult Raychem Specification.

Specifications

Raychem Specification RW 2063. (Black) RK6024 (colors and clear)
Material Safety Data Sheet available on request.
Installation instructions available on request.

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

Tyco Electronics Corporation	Tyco Electronics UK Ltd.	Tyco Electronics Raychem K.K.	Tyco Electronics Singapore Pte Ltd.
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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