

Flexible, adhesive-lined, polyolefin heat-shrinkable tubing

TAT-125 is an adhesive-lined, flexible, thin-wall, heat-shrinkable tubing. It provides one-step electrical insulation and moisture sealing for a wide variety of applications.

TAT-125 is especially suitable for applications where the moisture seal

must withstand flexing or other physical abuse. Because both tubing and adhesive are flexible, the moisture seal is resistant to bending of the substrate.

The thin adhesive lining of TAT-125 melts and flows with the heat of

application to form a positive environmental seal. The adhesive will adhere to a wide variety of plastics, rubbers, and metals, including PVC, polyethylene, neoprene, lead, and steel.

**Temperature rating**

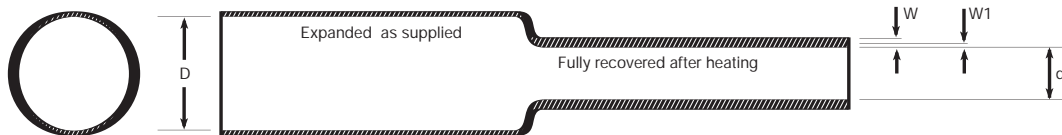
Full recovery temperature:	121°C
Continuous operating temperature:	-55°C to 110°C

**Specifications\***

Type	Raychem	Military	UL
TAT-125 Type 1 (colors)	RW-3032	AMS-DTL-23053/4, Cl. 2	E85381
TAT-125 Type 2 (clear)	RW-3032		

\*When ordering, always specify latest issue.

**Dimensions (millimeters/inches)**



Size	Inside diameter		Recovered wall thickness**			
	D (min.) Expanded as supplied	d (max.) Recovered after heating	W Nominal total wall	W1 Nominal adhesive wall	W1 Nominal adhesive wall	W1 Nominal adhesive wall
1/8	3.2 0.125	1.6 0.062	0.68 0.027	0.23 0.009	0.23 0.009	0.23 0.009
3/16	4.7 0.187	2.4 0.093	0.71 0.028	0.25 0.010	0.25 0.010	0.25 0.010
1/4	6.4 0.250	3.2 0.125	0.74 0.029	0.13 0.005	0.13 0.005	0.13 0.005
3/8	9.5 0.375	4.7 0.187	0.74 0.029	0.13 0.005	0.13 0.005	0.13 0.005
1/2	12.7 0.500	6.4 0.250	0.76 0.030	0.15 0.006	0.15 0.006	0.15 0.006
3/4	19.1 0.750	9.5 0.375	0.89 0.035	0.15 0.006	0.15 0.006	0.15 0.006
1	25.4 1.000	12.7 0.500	1.07 0.042	0.20 0.008	0.20 0.008	0.20 0.008
1 1/2	38.1 1.500	19.1 0.750	1.19 0.047	0.28 0.012	0.28 0.012	0.28 0.012
2	50.8 2.000	25.4 1.000	1.65 0.065	0.56 0.022	0.56 0.022	0.56 0.022
3	76.2 3.000	38.1 1.500	1.65 0.065	0.56 0.022	0.56 0.022	0.56 0.022
4	101.6 4.000	50.8 2.000	1.78 0.070	0.56 0.022	0.56 0.022	0.56 0.022

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

**Ordering information**

Colors	Standard Black Nonstandard White, red, blue, yellow, green, orange, brown, violet, clear (non-flame-retardant jacket)
Size selection	Always order the largest size that will shrink snugly over the component being covered.
Standard packaging	4-foot lengths
Nonstandard sizes	Sizes of 2 inches and larger are by special order only. Other nonstandard sizes are available upon special request.
Ordering description	Specify product name, size, and color; for example, TAT-125 1/4-0 (0=Black).

## Specification values

	Property	Unit	Requirement	Method of test
<b>Physical</b>	Dimensions	mm ( <i>inches</i> )	See reverse	ASTM D 2671
	Longitudinal change*	percent	+0, -5 maximum	ASTM D 2671
	Tensile strength	psi	1500 minimum	ASTM D 2671
	Ultimate elongation	percent	200 minimum	ASTM D 2671
	Secant modulus (as supplied)	psi	2.5 x 10 <sup>4</sup> maximum	ASTM D 2671
	Cold impact (at -55°C/-67°F)		No cracking	AMS-DTL-23053
	Heat shock (4 hours at 250°C/482°F)		No dripping, flowing, or cracking of outer wall	AMS-DTL-23053
	Heat resistance (168 hours at 175°C/347°F)		No dripping, flowing, or cracking of outer wall	AMS-DTL-23053
	Color		Pass	MIL-STD 104
Color stability (24 hours at 175°C/347°F)		Pass	MIL-STD 104	
<b>Electrical</b>	Dielectric strength	volts/mil		ASTM D 2671
	Sizes 1/8" through 1" Sizes 1 1/2" and larger		500 minimum 400 minimum	
	Volume resistivity	ohm-cm	1 X 10 <sup>12</sup> minimum	ASTM D 2671
<b>Chemical</b>	Copper corrosion (16 hours at 121°C/250°F)		No corrosion	ASTM D 2671 Procedures A & B
	Flame retardancy**		Self-extinguishing within 1 minute, 25% maximum flag burn	AMS-DTL-23053 Test A
	Fungus resistance		Rating of 1 or less	ASTM G21
	Water absorption (24 hours at 23°C/73°F)	percent	0.5 maximum	ASTM D 2671
	Fluid resistance (24 hours at 24°C/75°F) in: Hydraulic fluid (MIL-H-5606) JP-8 fuel (MIL-T-5624) Lubricating oil (MIL-L-7808 and MIL-I-23699)		AMS-DTL-23053	
	Salt water, 5% (O-S-1926) De-icing fluid (MIL-A-8243) Followed by tests for:			
	Tensile strength	psi	1000 minimum	ASTM D 2671
	Dielectric strength	volts/mil		ASTM D 2671
	Sizes 1/8" through 1"		400 minimum	
	Sizes 1 1/2" and larger		300 minimum	

Note: Except for dimensions and longitudinal change, specification values apply to outer jacket only. \*Sizes and colors not included in AMS-DTL-23053/4, Class 2 have a longitudinal change requirement of +0, -10 maximum. \*\*Only the outer jacket of TAT-125 is flame-retardant; the outer jacket of clear TAT-125, however, is not flame-retardant.

Typical properties	Adhesive		
	Peel strength		T-PEEL, 2"/minute
Polyethylene	15 lb./in. width		
Neoprene	10 lb./in. width		
PVC	10 lb./in. width		
Lead	5 lb./in. width		
Steel	15 lb./in. width		

Raychem is a trademark of Tyco Electronics Corporation.

**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

All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Tyco Electronics Corporation makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Electronics Corporation's only obligations are those in the Standard Terms and Conditions of Sale for these products and in no case will Tyco Electronics Corporation be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Tyco Electronics Corporation's Specifications are subject to change without notice. In addition, Tyco Electronics Corporation reserves the right to make changes in materials or processing without notification to the Buyer which do not affect compliance with any applicable specification.

**For more information about this product visit [www.tycoelectronics.com](http://www.tycoelectronics.com)**



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.