

Adhesive-lined, medium-wall DWP-125 heat-shrinkable tubing is a versatile, environmentally friendly choice for many commercial applications that require mechanical protection and sealing against moisture and chemical ingress.

Typical applications include environmental sealing and protection of irregular shapes, such as wire splices and break-outs, in demanding

DWP-125



Flexible, flame-retardant, adhesive-lined, polyolefin heat-shrinkable tubing

industries such as appliance and satellite communication. DWP-125 tubing has an outer jacket of radiation-crosslinked, flexible, flame-retardant polyolefin. Unlike other typical flame-retardant tubings, DWP-125 tubing is free of polybrominated biphenyls (PBBs) and polybrominated biphenyl oxides (PBBOs). In Europe, these chemicals are classified as environmentally hazardous substances.

As DWP-125 shrinks, the inner adhesive liner melts and flows to seal and encapsulate components or splices contained within. Because DWP-125 has a three-toone shrink ratio, only a few sizes are needed to cover a wide range of substrate diameters, enhancing inventory efficiency. DWP-125 is UL-recognized and CSA-certified at 125°C, 600 V.

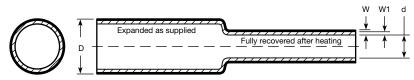
Temperature rating

125°C	
-40°C to 110°C	

Specifications*		.91	()
Туре	Raychem	UL	CSA
DWP-125	DWP-125 SCD	E35586	LR31929

*When ordering, always specify latest issue.

Dimensions (millimeters/inches)



	Inside	Inside diameter (including core)			Recovered wall thickness**			
	D (mir	ı.)	d (max	(.)	w		W1	
	Expan	ded	Recov	ered after	Nomin	al	Nomin	al
Size	as sup	plied	heatin	g	total w	vall	adhesi	ve wall
1/8	3.2	0.125	1.0	0.040	1.0	0.040	0.25	0.010
3/16	4.8	0.187	1.5	0.060	1.40	0.055	0.51	0.020
1/4	6.4	0.250	2.0	0.080	1.45	0.057	0.56	0.022
3/8	9.5	0.375	3.0	0.120	1.65	0.065	0.68	0.027
1/2	12.7	0.500	4.0	0.157	1.78	0.070	0.76	0.030
3/4	19.0	0.750	6.0	0.230	2.03	0.080	0.76	0.030
1	25.4	1.000	8.0	0.320	2.50	0.100	0.76	0.030
1 1/2	38.1	1.500	13.0	0.530	2.50	0.100	0.76	0.030
2	50.8	2.000	20.0	0.800	2.50	0.100	0.76	0.030

Ordering information

Colors	Standard	Black		
	Nonstandard	Red, yellow, blue, green, and white; other colors available on request.		
Size selection	Always order the l	Always order the largest size that will shrink snugly over the component being covered.		
Standard packaging	4-foot lengths			
Ordering description	Specify product na	ame, size, and color; for example, DWP-125 1/4-0 (0=Black).		

Specification values

	Property	Unit	Requirement	Method of test	
Physical	Dimensions	mm (inches)	See reverse	ASTM D 2671	
	Longitudinal change	percent	+0, -10	ASTM D 2671	
	Tensile strength	psi <i>(MPa)</i>	1500 <i>(10.3)</i> minimum	ASTM D 2671	
	Ultimate elongation	percent	200 minimum	ASTM D 2671	
	Secant modulus (as supplied)	psi <i>(MPa)</i>	1.5 x 10 ⁴ (103) maximum	ASTM D 2671	
	Low-temperature flexibility (1 hour at –30°C/–22°F)		No cracking	UL 224	
	Heat shock (4 hours at 250°C/482°F)		No cracking	ASTM D 2671	
	Heat aging (7 days at 158°C/316°F) Followed by tests for:			ASTM D 2671	
	Tensile strength	percent	70% minimum of original	UL 224	
	Ultimate elongation	percent	100 minimum	UL 224	
	Flexibility	·	No cracking	UL 224	
	Dielectric withstand at 2500 V	seconds	60 minimum	ASTM D 2671	
	Dielectric breakdown	volts	50% minimum of unaged specimens	ASTM D 2671	
	Dielectric strength	volts/mil (kV/mm)	500 <i>(19.7)</i> minimum	ASTM D 2671	
	Restricted shrinkage		Pass	UL 224	
Electrical	Dielectric withstand at 2500 V	seconds	60 minimum	ASTM D 2671	
	Dielectric strength	volts/mil (kV/mm)	500 <i>(19.7)</i> minimum	ASTM D 2671	
	Volume resistivity	ohm-cm	10 ¹⁴ minimum	ASTM D 2671	
Chemical	Corrosive effect (7 days at 158°C/316°F)		No corrosion	ASTM D 2671 Procedure B	
	Copper stability		No brittleness, glazing,	ASTM D 2671	
	(7 days at 158°C/316°F)		cracking, or severe discoloration of tubing. No pitting or blackening of copper.	Procedure B	
	Followed by test for:				
	Ultimate elongation	percent	100 minimum	ASTM D 2671	
	Flammability		Pass	UL 224, all tubing	

Note: Except for dimensions, longitudinal change, and flammability, specification values apply to outer jacket only.

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)

Tyco Electronics UK Ltd. Faraday Road Dorcan, Swindon, SN3 5HH United Kingdom Tel: +44 1793 528171 Tyco Electronics Raychem K.K. 3816 Noborito, Tama-ku Kawasaki, Kanagawa 214-8533 Japan Tel: +81 44 900 5102 **Tyco Electronics Singapore Pte Ltd.** 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.