

SCT

Adhesive-lined, semirigid, polyolefin heat-shrinkable tubing (extended temperature range)

SCT is a high-quality, dual-wall tubing designed to insulate and seal automotive wire splices and components made by ultrasonic welding, clip-and-dip, or soldering. Typical applications are insulating and sealing splices in an under-the-hood automotive environment.

SCT has a tough outer wall made of radiation crosslinked, flame-retardant, semirigid polyolefin. The inner wall is a unique, specially formulated hotmelt adhesive designed to function at an extended temperature range. The adhesive forms an outstanding barrier against moisture and automotive fluids.

This barrier provides exceptional protection against corrosion.

Because SCT has a high shrink ratio, only a few sizes are needed to cover a wide range of splice and component diameters.

0.060

1.52

Temperature rating

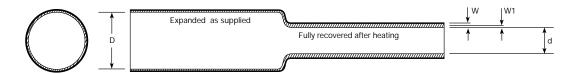
Full recovery temperature:	135°C
Continuous operating temperature:	-40°C to 150°C

Specifications*

Туре	Raychem
SCT	SCT SCD

^{*}When ordering, always specify latest issue.

Dimensions (millimeters/inches)



Recovered wall thickness**

0.100 ± 0.012

moido	inside diameter				Recovered wall trickless			
D (min.)		d (max.)		W		W1 (min.)		
Expan	ided as	Reco	vered after	Total		Adhes	ive	
suppli	ed	heati	ng	wall		wall		
5.1	0.200	1.3	0.050	1.4 ± 0.30	0.055 ± 0.012	0.76	0.030	
7.6	0.300	1.7	0.065	1.52 ± 0.30	0.060 ± 0.012	0.76	0.030	
9.0	0.355	2.3	0.090	1.52 ± 0.30	0.060 ± 0.012	0.76	0.030	
11.6	0.455	2.5	0.100	2.29 ± 0.30	0.090 ± 0.012	1.40	0.055	
17.8	0.700	4.4	0.175	2.54 ± 0.30	0.100 ± 0.012	1.52	0.060	
	D (mir Expan suppli 5.1 7.6 9.0 11.6	D (min.) Expanded as supplied 5.1 0.200 7.6 0.300 9.0 0.355 11.6 0.455	D (min.) d (ma Expanded as Reco supplied heati 5.1 0.200 1.3 7.6 0.300 1.7 9.0 0.355 2.3 11.6 0.455 2.5	D (min.) d (max.) Expanded as Recovered after supplied heating 5.1 0.200 1.3 0.050 7.6 0.300 1.7 0.065 9.0 0.355 2.3 0.090 11.6 0.455 2.5 0.100	D (min.) d (max.) W Expanded as supplied Recovered after heating Total wall 5.1 0.200 1.3 0.050 1.4 ± 0.30 7.6 0.300 1.7 0.065 1.52 ± 0.30 9.0 0.355 2.3 0.090 1.52 ± 0.30 11.6 0.455 2.5 0.100 2.29 ± 0.30	D (min.) d (max.) W Expanded as supplied Recovered after heating Total wall 5.1 0.200 1.3 0.050 1.4 ± 0.30 0.055 ± 0.012 7.6 0.300 1.7 0.065 1.52 ± 0.30 0.060 ± 0.012 9.0 0.355 2.3 0.090 1.52 ± 0.30 0.060 ± 0.012 11.6 0.455 2.5 0.100 2.29 ± 0.30 0.090 ± 0.012	D (min.) d (max.) W W1 (m Expanded as supplied Recovered after heating Total wall Adhes 5.1 0.200 1.3 0.050 1.4 ± 0.30 0.055 ± 0.012 0.76 7.6 0.300 1.7 0.065 1.52 ± 0.30 0.060 ± 0.012 0.76 9.0 0.355 2.3 0.090 1.52 ± 0.30 0.060 ± 0.012 0.76 11.6 0.455 2.5 0.100 2.29 ± 0.30 0.090 ± 0.012 1.40	D (min.) d (max.) W W1 (min.) Expanded as supplied Recovered after heating Total Adhesive wall 5.1 0.200 1.3 0.050 1.4 ± 0.30 0.055 ± 0.012 0.76 0.030 7.6 0.300 1.7 0.065 1.52 ± 0.30 0.060 ± 0.012 0.76 0.030 9.0 0.355 2.3 0.090 1.52 ± 0.30 0.060 ± 0.012 0.76 0.030 11.6 0.455 2.5 0.100 2.29 ± 0.30 0.090 ± 0.012 1.40 0.055

0.330

 2.54 ± 0.30

1.100

27.9

Inside diameter

Ordering information

SCT No. 5

Color	Black
Size selection	Always order the largest size that will shrink snugly over the component being covered.
Standard packaging	Cut pieces. See reverse for information on standard cut lengths.
Marking	Tubing will be marked with the number size (for example, SCT-0, SCT-1, SCT-2, SCT-3, SCT-4, SCT-5).
Ordering description	Specify product name, size, and color, and cut length; for example, SCT-No.2-0-50MM (0=Black).

^{**}Wall thickness will be less if tubing recovery is restricted during shrinkage.

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	1500 minimum	ASTM D 2671
	Ultimate elongation	percent	300 minimum	ASTM D 2671
	Secant modulus (as supplied)	psi	35,000 minimum	ASTM D 2671
	Concentricity (as supplied)	percent	60 minimum	ASTM D 2671
	Heat shock		No cracking, dripping or	ASTM D 2671
	(4 hours at 250°C/482°F)		flowing of jacket	
Electrical	Dielectric strength (jacket only)	volts/mil	500 minimum	ASTM D 149
	Volume resistivity	ohm-cm	10 ¹³ minimum	ASTM D 257
	Immersion leak resistance	microamps	0.25 maximum	See note below
	Thermal aging			See note below
	(1000 hours at 150°C/302°F)			
	Followed by test for:			
	Immersion leak resistance	microamps	0.25 maximum	
	Thermal cycling			See note below
	25 cycles			
	(-40°C to 135°C/-40°F to 225°F)			
	Followed by test for:			
	Immersion leak resistance	microamps	0.25 maximum	
Chemical	Fluid resistance			See note below
	(24 hours at 25°C/77°F) in:			
	ASTM Reference Fuel C			
	VV-F-800 Diesel Fuel			
	(24 hours at 100°C/212°F) in:			
	ASTM #3 Oil			
	Followed by test for:			
	Immersion leak resistance	microamps	0.25 maximum	

Note: Consult Raychem SCT SCD for specific details about test procedures.

Standard cut lengths

Part number	Standard cut length	Cut length tolerance	
SCT No. 0	50 mm, 7 5 mm, 105 mm	± 1.5 mm	
	1220 mm	± 25.4 mm	
SCT No. 1	27 mm, 50 mm, 65 mm	± 1.5 mm	
	1220 mm	± 25.4 mm	
SCT No. 2	27 mm, 50 mm, 65 mm	± 1.5 mm	
	1220 mm	± 25.4 mm	
SCT No. 3	27 mm, 65 mm, 75 mm	± 1.5 mm	
	1220 mm	± 25.4 mm	
SCT No. 4	27 mm, 75 mm, 90 mm	± 1.5 mm	
	1220 mm	± 25.4 mm	
SCT No. 5	50 mm, 200 mm	± 1.5 mm	
	1220 mm	± 25.4 mm	

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

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