

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 hot-melt 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.

**Temperature rating**

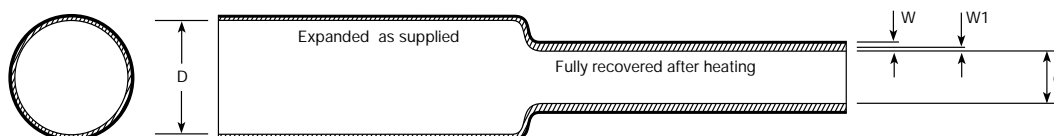
Full recovery temperature:	135°C
Continuous operating temperature:	-40°C to 150°C

**Specifications\***

Type	Raychem
SCT	SCT SCD

\*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 Total wall	W	W1 (min.) Adhesive wall	d
SCT No. 1	7.6 0.300	1.7 0.065	1.52 ± 0.30	0.060 ± 0.012	0.76 0.030	
SCT No. 2	9.0 0.355	2.3 0.090	1.52 ± 0.30	0.060 ± 0.012	0.76 0.030	
SCT No. 3	11.6 0.455	2.5 0.100	2.29 ± 0.30	0.090 ± 0.012	1.40 0.055	
SCT No. 4	17.8 0.700	4.4 0.175	2.54 ± 0.30	0.100 ± 0.012	1.52 0.060	

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

**Ordering information**

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-1, SCT-2, SCT-3, SCT-4).
Ordering description	Specify product name, size, and color, and cut length; for example, SCT-No.2-0-50MM (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, -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 (4 hours at 250°C/482°F)		No cracking, dripping or flowing of jacket	ASTM D 2671
<b>Electrical</b>	Dielectric strength (jacket only)	volts/mil	500 minimum	ASTM D 149
	Volume resistivity	ohm-cm	10 <sup>13</sup> minimum	ASTM D 257
	Immersion leak resistance	microamps	0.25 maximum	See note below
	Thermal aging (1000 hours at 150°C/302°F) Followed by test for:			See note below
	Immersion leak resistance	microamps	0.25 maximum	
	Thermal cycling 25 cycles (-40°C to 135°C/-40°F to 225°F) Followed by test for:			See note below
	Immersion leak resistance	microamps	0.25 maximum	
<b>Chemical</b>	Fluid resistance (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:			See note below
	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. 1	27 mm, 50 mm, 65 mm 1220 mm	± 1.5 mm ± 25.4 mm
SCT No. 2	27 mm, 50 mm, 65 mm 1220 mm	± 1.5 mm ± 25.4 mm
SCT No. 3	27 mm, 65 mm, 75 mm 1220 mm	± 1.5 mm ± 25.4 mm
SCT No. 4	27 mm, 75 mm, 90 mm 1220 mm	± 1.5 mm ± 25.4 mm

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.