

Raychem

SCL

Semirigid, Encapsulant-Lined, Polyolefin Tubing

Product Facts

- 3:1 shrink ratio
- Splash-resistant, moistureresistant covering; not intended for use where immersion in fluids is required
- Rugged protection against abrasion, vibration, and flexing
- Excellent strain relief and insulation of weak points





Applications

Encapsulates components, splices, and terminations where moisture resistance and mechanical protection are required. Encapsulant melts and flows to fill surface irregularities of the substrate. While still hot, the tubing can be blocked to form a wire breakout.

Installation

Minimum shrink temperature: 125°C [257°F] Minimum full recovery temperature: 135°C [275°F]

Operating Temperature Range -55°C to 110°C [-67°F to 230°F]

Specifications/Approvals

Series	UL 🔊	Military	Raychem
SCL	E85381 600 V, 125°C	AMS-DTL-23053/4*, Class 1	RT-1301

*Formerly MIL-I-23053/4 and MIL-DTL-23053/4.

	Available in:	Americas	Europe	Asia Pacific	
					3-47
Catalog 1654025 Revised 12-04	Dimensions are in millimeters and inches unless otherwise specified. Values in brackets	Dimensions are shown for reference purposes only. Specifications subject	USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926	South America: 55-11-3611-1514 Japan: 81-44-900-5102 Singapore: 65-4866-151	
www.tycoelectronics.com	are U.S. equivalents.	to change.	C. America: 52-55-5-729-0425	UK: 44-1793-528171	



SCL (Continued)
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FIGURE DIMENSIONS	Product	Dimensio	ns
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		Inside Diameter		Recovered Wall Thickness**	
Size	Additional Standard Color	Minimum Expanded as Supplied	Maximum Recovered After Heating	Total Wall After Heating	Meltable Wall After Heating (Nominal)
1/8	Brown	3.2 [0.125]	0.6 [0.023]	0.96 ± 0.15 [0.038 ± 0.006]	0.51 [0.020]
3/16	Gray	4.8 [0.187]	1.5 [0.060]	1.09 ± 0.15 [0.043 ± 0.006]	0.64 [0.025]
1/4	White	6.4 [0.250]	2.0 [0.080]	1.19 ± 0.15 [0.047 ± 0.006]	0.69 [0.027]
3/8	Red	9.5 [0.375]	3.4 [0.135]	1.27 ± 0.18 [0.050 ± 0.007]	0.76 [0.030]
1/2	Blue	12.7 [0.500]	5.0 [0.195]	1.39 ± 0.18 [0.055 ± 0.007]	0.89 [0.035]
3/4	Yellow	19.1 [0.750]	8.0 [0.313]	1.65 ± 0.18 [0.065 ± 0.007]	1.02 [0.040]
1	N/A	25.4 [1.000]	10.2 [0.400]	1.90 ± 0.18 [0.075 ± 0.007]	1.02 [0.040]

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

Ordering Information

Color	Standard	Black (-0) for all sizes, plus one additional color per size per Product Dimensions table.	
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.		
Standard packaging	In 1.2-meter [4-foot] lengths.		
Ordering description***	Specify product name, size and color (for example, SCL 1/4-0).		

***Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.

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