

SCL

Semirigid, Encapsulant-Lined, Polyolefin Tubing

Product Facts

- 3:1 shrink ratio
- Splash-resistant, moisture-resistant 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
- RoHS compliant



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 |
|---------------|----------|--------|--------------|
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SCL (Continued)

Product Dimensions

| Size | Additional Standard Color | Inside Diameter | | Recovered Wall Thickness** | |
|------|---------------------------|------------------------------|---------------------------------|-----------------------------|--|
| | | Minimum Expanded as Supplied | Maximum Recovered After Heating | Total Wall After Heating | Melttable 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 spec., Def Stan and BS add -MS, -DS or -BS to ordering description.