SC-C
Leak Detection Sensing Cable
Resists Corrosion from Caustic Chemicals

Applications
- Battery rooms
- Labs
- Manufacturing Facilities
- Chemical Storage Tanks
- Pharmaceutical Plants

Key Features
- Detects any conductive fluid
- Resists damage from acids and bases
- Designed to eliminate false alarms
- Fast drying; quickly resets to detect the next leak
- Durable yet flexible design
- Patented since 2012
- Available in standard and custom lengths with pre-installed twist-lock connectors

Patented Protection From Even The Smallest Leaks
RLE’s corrosion-resistant sensing cable (SC-C) is used to reliably detect leaks via the presence of acids, bases, and other conductive liquids.

What Sets RLE’s Chemical Sensing Cable Apart?
- Resistant to chemical corrosion. The sensing cable can be cleaned and re-used even after exposure to harsh chemicals.
- Encapsulate at-risk areas and sources of leaks. Conductive fluid contact at any point along the length of the cable triggers an alarm condition.
- Engineered for reliability. Sensing wires are covered with a non-conductive polymer mesh; dirt, dust, and contact with metal will not generate false alarms.
- Constant oversight. Four wire construction allows the system to continually monitor the cable and identify damaged or disconnected cables.

All of our sensing cables are manufactured and assembled in the USA.
## Chemical Sensing Cable

- Developed to work with all RLE leak detection controllers and the WiNG-LD

### Technical Specifications

<table>
<thead>
<tr>
<th>Product Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>2 x 18 AWG with fluoropolymer insulation; 2 x 27 AWG with conductive fluoropolymer jackets</td>
</tr>
<tr>
<td>Sheer Strength</td>
<td>160 lbs. (72.6kg)</td>
</tr>
<tr>
<td>Cut Through Resistance</td>
<td>&gt;50 lbs. (&gt;22.7kg) with 0.005 in (0.13mm) blade</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>&gt;65 cycles per UL 719</td>
</tr>
<tr>
<td>Connector</td>
<td>4 pin, 0.51 in (13mm) diameter</td>
</tr>
</tbody>
</table>

### Chemical Resistance

- Functions normally after seven days' exposure to the following:
  - Fresh deionized water
  - Tap water
  - Sulfuric acid (98%)
  - Sulfuric acid (50%)
  - Hydrochloric acid (37%)
  - Sodium hydroxide (10%)
  - Aqua regia
  - Ethylene glycol (60% in DI water)

*Note: Prolonged exposure to concentrated ketones may cause temporary reduction of sensitivity; consult RLE for specific details.*

### Operating Environment

| Temperature | 32°F to 167°F (0°C to 75°C) |
| Humidity    | 5% to 95% RH, non-condensing |
| Altitude    | 15,000 ft (4,572m) max. |

### Storage Environment

| Temperature | -22°F to 185°F (-30°C to 85°C) |

### Weight

0.02 lbs./ft (29.74g/m)

### Certifications

- CE
- RoHS Compliant
- Patent No. 8,234,910

### Product Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-C-3</td>
<td>3ft / 0.91m sensing cable; acids/chemicals, pre-installed male/female connectors</td>
</tr>
<tr>
<td>SC-C-10</td>
<td>10ft / 3.04m sensing cable; acids/chemicals, pre-installed male/female connectors</td>
</tr>
<tr>
<td>SC-C-17</td>
<td>17ft / 5.18m sensing cable; acids/chemicals, pre-installed male/female connectors</td>
</tr>
<tr>
<td>SC-C-25</td>
<td>25ft / 7.62m sensing cable; acids/chemicals, pre-installed male/female connectors</td>
</tr>
<tr>
<td>SC-C-50</td>
<td>50ft / 15.24m sensing cable; acids/chemicals, pre-installed male/female connectors</td>
</tr>
<tr>
<td>SC-C-100</td>
<td>100ft / 30.48m sensing cable; acids/chemicals, pre-installed male/female connectors</td>
</tr>
<tr>
<td>SC-C-CL-M</td>
<td>Custom length sensing cables are available. Contact RLE for more information.</td>
</tr>
<tr>
<td>SC-C-Bulk</td>
<td>Bulk cable is available. Contact RLE for more information.</td>
</tr>
<tr>
<td>JC-C-10, JC-C-25, JC-C-50, JC-C-200</td>
<td>J-clips; cable securing clips for use with SC-C; use to secure cable every 3ft (1m). Available in qty of 10, 25, 50, 200.</td>
</tr>
<tr>
<td>SC-T</td>
<td>Cable caution tags; qty 10; use to identify cable every 10ft (3m)</td>
</tr>
</tbody>
</table>

### Chemical Sensing Cable Detail

- Polymer carrier (2)
- Sensing wires (2) covered with non-conductive polymer mesh

- Chemical Sensing Cable Detail Image with dimensions provided.

---

www.rletech.com  800.518.1519  104 Racquette Drive, Fort Collins, CO 80524  sales@rletech.com  v03.19