Sculcon® Plug and Cable units are used to connect a loading rack’s overfill monitoring and static grounding system to vehicle mounted overfill sensing systems. They are designed for use only with the intrinsically safe output circuits of Scully’s Biclops®, Biclops II, Biclops-III, ST-35, ST-15 and Intellitrol®.

A brief description of standard models follows:

- **SC-6A**: used with six channel thermistor and thermistor/2-wire optic control monitors such as Biclops and Intellitrol.
- **SC-8A and SC-8B**: used with eight channel thermistor and thermistor/optic control monitors such as Biclops-II, Biclops-III and Intellitrol.
- **SC-6AO**: used with optic control monitors such as Scully ST-35, Biclops thermistor/optic versions and Intellitrol.
- **SC-8OB**: Per the European standard.
- **SC-6W**: used with optic control monitors such as Scully ST-35, Biclops thermistor/optic versions and Intellitrol.

**Technical Specifications**

- **Environmental Temperature**: -40° F to +140° F
  (-40° C to +60° C)
- **Cable**:
  - Straight: 20 feet (6m)
  - Coiled: 30 feet (9m)
  The cables working length is enclosed in a fuel resistant jacket. The cable is oil and gas resistant. Other lengths are available upon request as a special order.
- **Materials**:
  - Plug Body: Polyurethane
  - Insulator: Polycarbonate
  - Contact Pins = Stainless Steel
  - Junction Box = Aluminum
- **Size**: See Drawing on back page

**Related Tech Data Sheets**:

- 60674 – Scully Sockets
- 60714 – Scully Poly Plug and Cable Assemblies
### Ordering Information

<table>
<thead>
<tr>
<th>Scully Model</th>
<th>Applicable Controllers</th>
<th>Plug Style</th>
<th>Number of Contact Pins, Slots in Mating Socket</th>
<th>Junction box with Coiled Cable Part #</th>
<th>Junction box with Straight Cable Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-6A</td>
<td>Intellitrol, Biclops, ST-15</td>
<td>Poly-Green</td>
<td>8 pins, 2 J slots(^1)</td>
<td>08156</td>
<td>07582</td>
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<tr>
<td>SC-6A/D</td>
<td>Intellitrol, ST-15 and Biclops</td>
<td>Poly-Green</td>
<td>8 pins, 2 J slots</td>
<td>08248</td>
<td>—</td>
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<tr>
<td>SC-6W</td>
<td>Intellitrol, ST-35, ST-35C, and Biclops</td>
<td>Poly-Blue</td>
<td>6 pins, 3 J slots(^2)</td>
<td>08159</td>
<td>08139</td>
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<tr>
<td>SC-6W/D</td>
<td>Intellitrol, ST-35 and Biclops</td>
<td>Poly-Blue</td>
<td>6 pins, 3 J slots</td>
<td>08674</td>
<td>—</td>
</tr>
<tr>
<td>SC-6AO</td>
<td>Intellitrol, ST-35 and Biclops, Scully Style</td>
<td>Poly-Blue</td>
<td>6 pins, 2 J slots</td>
<td>08161</td>
<td>08160</td>
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<tr>
<td>SC-6OB</td>
<td>Intellitrol, ST-35</td>
<td>Poly-Blue</td>
<td>6 pins, 4 J slots</td>
<td>08689</td>
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<td>SC-8OB</td>
<td>Intellitrol, (European)</td>
<td>Poly-Black</td>
<td>10 pins, 4 J slots(^3)</td>
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<td>SC-8B</td>
<td>Intellitrol, Biclops III (European)</td>
<td>Poly-Green</td>
<td>10 pins, 4 J slots</td>
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<tr>
<td>SC-8A</td>
<td>Intellitrol, Biclops II</td>
<td>Poly-Green</td>
<td>10 pins, 2 J slots</td>
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<td>07581</td>
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<tr>
<td>SC-6</td>
<td>Intellitrol, ST-6, ST-35, Biclops</td>
<td>SAE J560-metal</td>
<td>—</td>
<td>07628</td>
<td>08603</td>
</tr>
</tbody>
</table>

**Notes:**
1. API RP1004 Thermistor Standard
2. API RP1004 WOGA Optic Standard
3. European Draft Standard EN 296007

WOGA: Western States Petroleum Association  
API: American Petroleum Institute

**Worldwide Contact**

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