DESCRIPTION

Shock★Star Surface Connectors include Quick-Relay Connectors and Surface Delay Connectors.

*Shock ★Star Quick-Relay Connectors* are especially designed for the initiation of other shock tube detonators as a delay between holes or decks within a hole. Quick-Relay Connectors are equipped with connector blocks able to contain 8 outgoing shock tubes yet have a lowered base charge to reduce noise levels and shrapnel cut-off concerns. These detonators are available in 9 delays from instantaneous (0 ms) to 200 ms. (*Quick-Relay Connectors should never be used to attempt initiation of detonating cord*)

*Shock ★Star Surface Delay Connectors* are powerful, versatile detonators designed for compatibility with both shock tube and detonating cord initiation systems. Connector blocks are able to hold up to 8 outgoing shock tubes or initiate 10 to 200 grain detonating cord. These detonators are available in 8 delays from instantaneous (0 ms) to 200 ms.

---

**BENEFITS**

- Connector blocks color-coded to the delay time of the detonator.
- Equipped with a tear-proof delay tag that lists DSC, delay time and length of the detonator as well as being color coded to match the connector block.
- Manufactured with red shock tubing for easy differentiation from down-hole detonators when visually inspecting a connected blast pattern.

---

Quick-Relay Connector
(Shock tube ONLY)

Surface Delay Connector
(Shock tube and Detonating Cord compatible)
# Shock★Star Surface Connectors

## LENGTH, DELAY & PACKAGING

### Quick Relay Connectors QRC & SDC

<table>
<thead>
<tr>
<th>Length</th>
<th>Coil Style</th>
<th>Quantity</th>
<th>NEQ</th>
<th>Grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ft)</td>
<td>(m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>3.7</td>
<td>Lariat</td>
<td>100</td>
<td>50</td>
</tr>
<tr>
<td>20</td>
<td>6.1</td>
<td>Lariat</td>
<td>100</td>
<td>50</td>
</tr>
<tr>
<td>30</td>
<td>9.2</td>
<td>Lariat</td>
<td>80</td>
<td>40</td>
</tr>
<tr>
<td>40</td>
<td>12.2</td>
<td>Lariat</td>
<td>60</td>
<td>30</td>
</tr>
<tr>
<td>50</td>
<td>15.3</td>
<td>Lariat</td>
<td>40</td>
<td>20</td>
</tr>
<tr>
<td>60</td>
<td>18.3</td>
<td>Lariat</td>
<td>40</td>
<td>20</td>
</tr>
</tbody>
</table>

### H-PAK Optional Packaging

<table>
<thead>
<tr>
<th>Length</th>
<th>Coil Style</th>
<th>Quantity</th>
<th>NEQ</th>
<th>Grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ft)</td>
<td>(m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>3.7</td>
<td>Lariat</td>
<td>15</td>
<td>7.5</td>
</tr>
<tr>
<td>20</td>
<td>6.1</td>
<td>Lariat</td>
<td>15</td>
<td>7.5</td>
</tr>
<tr>
<td>30</td>
<td>9.2</td>
<td>Lariat</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>40</td>
<td>12.2</td>
<td>Lariat</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>50</td>
<td>15.3</td>
<td>Lariat</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>60</td>
<td>18.3</td>
<td>Lariat</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

### Quick Relay Color Codes

- 9 ms | Green
- 17 ms | Yellow
- 25 ms | Red
- 33 ms | Orange
- 42 ms | White
- 67 ms | Light Blue
- 100 ms | Purple
- 200 ms | Black

For more information and service locations in your area, please contact Austin Powder Company’s headquarters:

**Austin Powder Company**
25800 Science Park Drive
Cleveland, Ohio, USA 44122

Phone: 1-800-321-0752
Fax: 1-216-464-4418
Web: [www.austinpowder.com](http://www.austinpowder.com)
Email: info@austinpowder.com

---

**STORAGE**
Store in accordance with all applicable local, state, provincial and federal laws.

**SHELF LIFE**
For optimum accuracy, use within three years from date of manufacture under good storage conditions.

**UN CLASSIFICATION**
*Shipping Name:* Detonator Assemblies, Non-Electric
*Class & Division:* 1.4B
*ID Number:* UN 0361

**DOT REFERENCE NUMBERS**
- EX-2004040266
- EX-2005080138
- EX-2007010600
- EX-2008090091
- EX-2008090092

**HPAK**
- EX-2006060144
- EX-2007010600

All Shock★Star non-electric detonators are manufactured by Austin Star Detonator Co., Brownsville, TX.

**Disclaimer of Warranties and Limitations of Liabilities**

“Products described in this bulletin are sold by Austin Powder Company without warranty; express, implied or statutory or as to MERCHANTABILITY, except as expressly stated in Austin Powder’s straight bill of lading. Under no circumstances shall seller be liable for loss of anticipated profits, consequential damages or incidental damages.”

[1/2/02] [10/30/09]