



# AUSTIN POWDER

A TRADITION OF SAFETY, STRENGTH AND SERVICE.

## Shock★Star® Surface Connectors

*Non-Electric, Millisecond Delay Detonators for  
Inter-Deck, Inter-hole or Inter-row Connections*

### 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				
Length		Coil Style	Quantity	NEQ Grams
(ft)	(m)			
12	3.7	Lariat	100	50
20	6.1	Lariat	100	50
30	9.2	Lariat	80	40
40	12.2	Lariat	60	30
50	15.3	Lariat	40	20
60	18.3	Lariat	40	20

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

H-PAK Optional Packaging				
Length		Coil Style	Quantity	NEQ Grams
(ft)	(m)			
12	3.7	Lariat	15	7.5
20	6.1	Lariat	15	7.5
30	9.2	Lariat	10	5
40	12.2	Lariat	10	5
50	15.3	Lariat	10	5
60	18.3	Lariat	10	5

Quick Relay Connector Available Delays			
9 ms	17 ms	25 ms	33 ms
42 ms	67 ms	100 ms	200 ms
Surface Delay Available Delays			
9 ms	17 ms	25 ms	42 ms
67 ms	100 ms	200 ms	



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](mailto: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-2014080651

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] [4/03/17]