



AUSTIN POWDER

A TRADITION OF SAFETY, STRENGTH AND SERVICE.

Shock★Star® Dual-Delays

Non-Electric, Millisecond Delay Detonators

DESCRIPTION

Shock★Star Dual-Delays combine In-Hole Delays and Quick-Relay Connectors in one product. This combination offers convenience for storage and inventorying of one product instead of two and often reduces space requirements for transportation. Connecting of blast patterns is generally faster with Dual-Delays as fewer connections are required in total. Additionally, fewer individual products used in the blast pattern reduces clutter at connection points and makes visual inspections easier. For millisecond delay blasting, Dual-Delays are available in a variety of delay configurations.

BENEFITS

- Manufactured with bright yellow shock tube for high visibility.
- Surface connector has eight tube capacity and is color-coded to surface delay time.
- 750 mg base charge of PETN to ensure strong initiation energy under even the most extreme conditions (in-hole detonator only).
- Delay composition encased in a steel jacket to prevent performance loss due to transient pressure from nearby detonating holes.
- Equipped with a tear-proof color-coded delay tag that lists DSC, delay time, delay period and length of the detonator.



Shock★Star Dual-Delays

LENGTH, DELAY & PACKAGING

| Dual-Delay Detonators (DDD) | | | | |
|---|------|------------|----------|-----------|
| Length | | Coil Style | Quantity | NEQ Grams |
| (ft) | (m) | | | |
| 12 | 3.7 | Fast 8 | 70 | 105 |
| 16 | 4.9 | Fast 8 | 70 | 105 |
| 20 | 6.1 | Fast 8 | 60 | 90 |
| 24 | 7.3 | Fast 8 | 60 | 90 |
| 30 * | 9.2 | Fast 8 | 60 | 90 |
| 40 | 12.2 | Fast 8 | 50 | 75 |
| 50 | 15.3 | Fast 8 | 40 | 60 |
| 60 * | 18.3 | Fast 8 | 40 | 60 |
| 80 | 24.4 | Fast 8 X | 30 | 45 |
| 100 | 30.5 | Fast 8 X | 20 | 30 |
| 120 | 36.6 | Fast 8 X | 20 | 30 |
| 140 | 42.7 | Fast 8 X | 20 | 30 |
| 160 | 48.8 | Spool | 8 | 12 |
| 225 | 68.6 | Spool | 8 | 12 |
| *NOTE: For 30 Ft and 60 Ft Detonators produced after 10-3-2011 | | | | |
| 30 | 9.2 | Fast 8 | 50 | 75 |
| 60 | 18.3 | Fast 8 | 30 | 45 |

| Available Delay Configurations | | |
|--------------------------------|--------|--------|
| 17/350 | 25/350 | 42/350 |
| 17/375 | 25/375 | 42/375 |
| 17/450 | 25/450 | 42/450 |
| 17/475 | 25/475 | 42/475 |
| 17/500 | 25/500 | 42/500 |
| 17/700 | 25/700 | 42/700 |
| Long Period (LP) – 200/5000 | | |



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
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-2012070728
EX-2012081112

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

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