Shock★Star® LP Detonators

PRODUCT INFORMATION BROCHURE

Shock ★**Star** long period detonator products include LP In-Hole Delays and LP Dual-Delay Detonators.

Shock *Star LP In-Hole Delays are available in a sequence of 26 whole number periods from instantaneous (0 ms) to 9600 ms. Austin's LP delay sequence is appropriate for applications such as tunneling and shaft or raise mining where long delays are required between holes to allow for movement of broken rock. They are designed to be used as down-hole detonators for the initiation of cast boosters, high explosives or pneumatically loaded AN/FO. In-Hole delays come equipped with a T-Connector for compatibility with detonating cord initiation.

Shock *Star LP Dual-Delays with the 200/5000 ms configuration are designed to allow the efficiency of dual-delay detonators to be used in LP delay applications. They achieve high inventory efficiency by replacing an entire series of delay detonators with a single product. Dual-Delays are equipped with the patented eight tube capacity Quick-Relay Connector with a white colored end cap for better visibility in low light workplaces

ADVANTAGES

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



LP In-Hole Delays



LP Dual Delays





Shock★Star® LP Detonators

STANDARD TECHNICAL DESCRIPTION

Non-electric, long period delay detonators

STANDARD PACKAGING DETAIL

LP IN-HOLE DELAYS LP - IHD									
Length		Coil	Quantity	NEQ					
(ft)	(m)	Style	Quantity	Grams					
8	2.4	Lariat	180	180					
12	3.7	Lariat	150	150					
16	4.9	Lariat	120	120					
20	6.1	Lariat	120	120					
24	7.3	Lariat	80	80					
LP DUAL-DELAYS LP-DDD									
Length		Coil	Quantity	NEQ					
(ft)	(m)	Style	Quantity	Grams					
12	3.7	Fast 8	70	105					
16	4.9	Fast 8	70	105					
24	7.3	Fast 8	60	90					

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Available Periods – MS Delays								
Period#	0	1	2	3	4			
Delay, ms	0	200	400	600	800			
Period#	5	6	7	8	9			
Delay, ms	1000	1200	1400	1600	1800			
Period#	10	11	12	13	14			
Delay, ms	2000	2500	3000	3500	4000			
Period#	15	16	17	18	19			
Delay, ms	4500	5000	5500	6000	6500			
Period#	20	21	22	23	24			
Delay, ms	7000	7500	8000	8500	9000			
Period#	25							
Delay, ms	9600							
LP – Dual D	elay	200ms / 5000ms						



STORAGE

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

SHELF LIFE

For optimum accuracy, use within one year from date of manufacture under good storage conditions.

TRANSPORTATION DATA

UN CLASSIFICATION

Shipping Name: Detonators Assemblies,

Non-Electric

Class & Division: 1.1B LP IHD / 1.4B LP-DDD

ID Number: UN 0360

US DOT REFERENCE NUMBER

EX-2012070727 EX-2012070728 EX-2012081113 EX-2012081112

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