



# PRODUCT INFORMATION

## BROCHURE

1.1B

1.4B

## ROCK★STAR® DETONATORS



**Rock★Star electric detonators** are designed to provide the precise control necessary to produce accurate and consistent blasting results in a variety of blasting applications in the mining, quarrying and construction industries.

### PRODUCT OVERVIEW

#### TECHNICAL DESCRIPTION

Electric millisecond and long period delay detonators.

#### ADVANTAGES

- Minimum 720 mg PETN base charge far exceeds the standard #8 strength detonator.
- Industries strongest aluminum shell reduces the possibility of water hammer effect.
- HDPE insulation for added protection from extraneous currents.
- Wide selection of delay intervals provide greater flexibility in blast design.

**PROPERTIES**

<b>Standard Delay Configurations</b>											
<b>MS Delay Sequence</b>											
<b>Delay</b>	0	1	2	3	4	5	6	7	8	9	10
<b>Time</b>	0	25	50	75	100	125	150	175	200	225	250
<b>Delay</b>	11	12	13	14	15	16	17	18	19	20	21
<b>Time</b>	275	300	325	350	375	400	425	450	475	500	550
<b>Delay</b>	22	23	24	25	26	27	28	29	30		
<b>Time</b>	600	650	700	750	800	850	900	950	1000		
<b>LP Delay Sequence</b>											
<b>Delay</b>	0	1	2	3	4	5	6	7	8	9	10
<b>Time</b>	0	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
<b>Delay</b>	11	12	13								
<b>Time</b>	5500	6000	6500								

<b>Length</b>	<b>[ft]</b>	8	12	16	20	24	30	40	60
	<b>[m]</b>	2.4	3.7	4.9	6.1	7.3	9.1	12.2	18.3
<b>Total Resistance <math>\Omega^*</math></b>		1.23	1.44	1.60	1.78	1.90	1.65	1.85	2.25

\* Available in 20' length only

<b>Electrical Data</b>	
No Fire Current	0.25 amps
All Fire Current	1.00 amps
Series Ignition Current	1.50 amps
No Fire Impulse	2.5 mJ/ohms
All Fire Impulse	5.5 mJ/ohms
<b>Electrostatic Sensitivity</b>	
Double Wire to Shell	10 kV/300 pF/15 mJ
Pin to Pin	10 kV/300 pF/15 mJ

## STANDARD PACKAGING

MS and LP Packaging						
Length		Case Weight		Case count	NEQ per Case (g)	Wire Configuration
(ft)	(m)	(lbs)	(kg)			
8	2.3	4.6	2.1	60	60	Short Fold
12	3.7	5.3	2.4	40	40	Short Fold
16	4.9	6.1	2.8	40	40	Short Fold
20	6.1	6.6	3	40	40	Short Fold
24	7.3	5.5	2.5	40	40	Short Fold
30	9.1	6.6	3	15	15	Long Fold
40	12.2	6.6	3	15	15	Long Fold
60	18.3	6.6	3	10	10	Long Fold

Case Dimensions	11 1/4" x 7 5/8" x 5"
	286mm x 194 mm x 127 mm

\* Other lengths available upon request.

Rock★Star MS and LP Recommended Firing Current				
Circuit Type	Single Detonator	Single Series	Parallel Series	Parallel
DC [Amps]	0.5	1.5	1.5	1.0–10.0/Detonator
AC [Amps]	0.5	2	2	1.0–10.0/Detonator

\* All Rock★Star 24' (7.3 m) and less, have 22 AWG (0.6 mm) copper wire.

\* All Rock★Star 30' (9.1 m) and more, have 20 AWG (0.8 mm) copper wire.

## SHELF LIFE, STORAGE & DISPOSAL

- For optimum accuracy, use within five years from date of manufacture under good storage conditions.
- Store in accordance with all applicable local, state, provincial and federal laws.
- Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Austin Powder Technical Representative for information on safe practices.

## TRANSPORT - UN CLASSIFICATION

Shipping Name: Detonators, Electric.

Class & Division	US DOT Ref. Number	ID Number	Market			Qty Pack
1.1 B	EX-2014020337	UN 0030		DOMESTIC		
1.4 B	EX-2010080268	UN 0255	INTERNATIONAL	DOMESTIC	CANADA	
1.4 B	EX-2006030288	UN 0255		DOMESTIC	CANADA	35 pieces max

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**AUSTIN POWDER**

**Our Mission is to improve the world we live in through the safe and responsible use of explosives.**