

PRODUCT INFORMATION BROCHURE



E*STAR DETONATORS



E★STAR electronic detonators feature maximum safety, timing accuracy and initiation selection for most blasting applications. Using the E★STAR Tester equipment it is possible to check the detonators at any time and with the E★STAR Logger equipment it is possible to program them for any delay within the range of 1 to 20,000 ms. With the E★STAR Blaster device it is possible to fire up to 1,600 detonators per blast.

PRODUCT OVERVIEW

EQUIPMENT

The system should be operated only by trained and authorized personnel using the dedicated equipment designed specifically for operating E*STAR detonators. The currently approved equipment is E*STAR Tester, E*STAR Logger, E*STAR Blaster, E*STAR Remote Blaster and E*STAR Mini Blaster, E*STAR Remote and equipment for dual blasting E*STAR Blaster Sync.













BENEFITS

- Copper shell for high water resistance and long sleep time
- Delay range 1 20,000 ms
- Minimum delay increment 1 ms
- Maximum accuracy 0.01% of nominal delay
- Up to 1,600 detonators controlled by 1 Blasting Machine and 1 Logger
- Multiple ways of programming
- Possible remote blasting
- Possible dual blasting up to 3,200 detonators in one shot
- Multi-level detonator verification prior each blast
- 100% verification of reliability of blast

STANDARD TECHNICAL DESCRIPTION

Detonator standard shell material	Copper		
Detonator standard leg wires material Copper coated steel			
Base charge	720 mg		
Water pressure resistance	1 MPa / 28 days		
Temperature range for application	-20 °C < T < +50 °C		
Label marking	Product name, Wire length, Data matrix code (traceability), Detonator serial number (for RFID labels)		
Delay interval	Programmable 1 – 20,000 ms (increments of 1 ms)		

STANDARD PACKAGING

Wire length (m)	Packaging 1.1B UN 0511 (pcs)		Packaging 1.4S UN 0513 (pcs)	
	Loop	Spool	Loop	Spool
4.8	100	-	-	-
6	100	-	48	-
9	60	75	-	40
12	60	75	-	32
15 / 18 / 20 / 24 / 30	-	75	-	30 / 20

E★STAR detonators are packaged in cardboard box of outer dimension
1.1B- 533 x 271 x 277 mm
1.4S- 385 x 296 x 210 mm /
15.16 x 11.65 x 8.27 in.
Other wire lengths are possible on demand.

USE

- Open pit mining
- Underground mining
- Quarries
- Construction and tunnels

SHELF LIFE, STORAGE & DISPOSAL

- Shelf life is five years from date of manufacture under good storage conditions.
- Recommended conditions: -30°C to +40°C, in original package.
- E*STAR must be stored in magazines for detonators. Detonators cannot be store in the same magazines as high explosives (packaged emulsions, booster, etc.) and blasting agents (ANFO). These magazines must accomplish the current legal requirements.
- Disposal: According to local regulations. If you have any questions, ask the supplier.

TRANSPORT - UN CLASSIFICATION

Shipping Name: DETONATOR ASSEMBLIES, ELECTRONIC

Class & Division: 1.1B / 1.4S ID Number: UN 0511 / 0513

Contact your local Austin Powder representative for further information.

Disclaimer of Warranties and Limitations of Liabilities: © 2023 Austin Powder Argentina S.A. All rights reserved. All information contained in this document is provided for informational purposes only and is subject to change without notice. Since the Austin Powder Argentina S.A. cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Austin Powder Argentina S.A. specifically disclaims all warranties express or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. Austin Powder Argentina S.A. specifically disclaims and will not be responsible whatsoever for any and all injuries (including death), losses, or damages to persons or property resulting from the use or reliance upon the information in this document.



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