



PRODUCT INFORMATION

BROCHURE

1.1B

1.4B

1.4S

E★STAR DETONATOR



E★STAR detonator is characterized by maximum safety, timing accuracy and variability of initiation for most of the blasting applications. Using the E★STAR Tester it is possible to check E★STAR detonators anytime. Using E★STAR Logger it is possible to program the detonators to any delay within the range from 1 to 20,000 ms. Using the E★STAR Blaster it is possible to fire up to 1,600 E★STAR detonators per blast. Using E★STAR Remote Blaster and E★STAR Remote it is possible to control blast initiation remotely. Using the dual blasting mode, 3,200 E★STAR detonators can be fired at once.

PRODUCT OVERVIEW

ADVANTAGES

- 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
- Color coded connectors, yellow for lengths up to 9 m and red from 12 m up
- RFID technology for quick detonator tagging during programming

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.



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	-30 °C < T < +60 °C
Shelf life (storage conditions)	5 years (-30 °C to 40 °C)
Label marking	Product name, Wire length, Data matrix code (traceability), Detonator serial number (for RFID labels) <i>It is possible to equip every detonator label with RFID chip</i>
Delay interval	Programmable 1 – 20,000 ms (increments of 1 ms)
Notified body	CE 1019

STANDARD PACKAGING

Wire length (m)	Wire length (ft)	Packaging 1.1B UN 0511 (pcs)	Packaging 1.4B UN 0512 (pcs)	Packaging 1.4S UN 0513 (pcs)
6	20	80	48	48
9	30	56	40	40
12	40	40	32	32
15 / 18 / 24 / 30	50 / 60 / 80 / 100	X	X	30 *

E★STAR detonators are packaged in cardboard box of outer dimension 385 x 296 x 210 mm / 15.16 x 11.65 x 8.27 in. Other wire lengths are possible on demand.

* / Delivered on spools. Every box contain a stick for easy manipulation.

BUS-LINE

Wire length (m)	Wire length (ft)	Units per box
400	1,300	4

Bus-line is packaged in cardboard box of outer dimension 490 x 245 x 160 mm / 19.29 x 9.65 x 6.30 in.

SHELF LIFE, STORAGE & DISPOSAL

- 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. under good storage conditions.

TRANSPORT – UN CLASSIFICATION

Shipping Name:
Class & Division: 1.1B, 1.4B, 1.4S
ID Number: UN0511, UN0512, UN0513

US DOT REFERENCE NUMBER

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AUSTIN POWDER

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

Austin Powder, 25800 Science Park Drive, Cleveland, OH 44112 USA
austinpowder.com | info@austinpowder.com | Phone 1-800-321-0752 | Fax 1-216-464-4418