



PRODUCT INFORMATION

BROCHURE

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

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
- Color coded connectors, yellow for lengths up to 9 m and red from 12 m up

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	-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)
Delay interval	Programmable 1 – 20,000 ms (increments of 1 ms)
Notified body	CE 1019

STANDARD PACKAGING DETAILS

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.

Contact your local Austin Powder representative for further information.

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