

E★STAR

PRODUCT INFORMATION BROCHURE

E★STAR is characterized by maximum safety, timing accuracy and variability of initiation for most of the blasting applications. Using the LM-2 tester it is possible to check E★STAR detonators anytime. Using DLG1600-100 Logger it is possible to program the detonators to any delay within the range from 1 to 20,000 ms. Using the DBM1600-2-K Blasting Machine it is possible to fire up to 1,600 E★STAR detonators per blast. Using DBM1600-2-RC and WRFD it is possible to control blast initiation remotely. Using the dual blasting mode, 3,200 E★STAR detonators can be fired at once.



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

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 LM-2 tester, DLG1600-100 Logger, DBM1600-2-K, DBM1600-2-RC and DBM-1 Blasting Machines, Wireless Remote Firing Device and equipment for dual blasting DIM-1.



AUSTIN POWDER

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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 | Delay # (if preprogramed), Delay ms (if preprogramed), Product name, Wire length, Data matrix code (traceability) |
| 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 0030 | Packaging 1.4B UN 0255 | Packaging 1.4S UN 0456 |
|-------------------|--------------------|---------------------------|---------------------------|---------------------------|
| 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 390 x 295 x 205 mm / 15,35 x 11,61 x 8,07 in.

Other wire lengths are possible on demand.

BUS-LINE

| Wire length (m) | Wire length (ft) | Packaging |
|-----------------|------------------|-----------|
| 400 | 1300 | 4 |

Bus-line is packaged in cardboard box of outer dimension 400 x 240 x 160 mm / 15.75 x 9.45 x 6.30 in

Contact your local Austin Powder representative for further information.

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