

E★STAR Starter

PRODUCT INFORMATION BROCHURE

E★STAR Starter – The explosive industry's premium electronic starting system for shocktube or detonating cord initiation.

ADVANTAGES

- Functional bunch-block design for locking shocktube or detonating cord in place.
- Prioritizes safety through proven electronic detonator technology.
- Programmable electronic detonator.
- Hardwire or wireless remote capabilities for safe distance requirements.



APPLICATION RECOMMENDATIONS

- Surface and underground operations
- Shocktube initiation or detonating cord initiation
- Operating temperature range: -30°C to +60°C (winter to summer in surface open pit)
- Use within 28 days for best water resistance: 1mpa / 28 days

STANDARD TECHNICAL DESCRIPTION

- Factory pre-programmed 712 ms or 901 ms delay depending on factory of origin, or field programmability for preferred delay timing in a wide variety of starter applications, specifically multiple bench blasts or separate underground headings.



AUSTIN POWDER

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STANDARD PACKAGING DETAILS

| Length Product | | Configuration | Quantity Per Product | | Gross Weight Per Shipping Box | | Net Explosive Quantity Per Shipping Box | Shipping Box | | |
|----------------|-------|---------------|----------------------|-------|-------------------------------|------|-----------------------------------------|--------------|-------|-------|
| | | | Shipping Box | | | | | Part Number | | Class |
| Ft | m | Type | Inner | Outer | Lbs. | Kg. | g | Inner | Outer | Type |
| 16 | 4.9 | Fast 8 | N/A | 80 | 19.8 | 9.0 | 20.0 | N/A | 80 | 1.4B |
| 500 | 152.5 | Spooled | N/A | 8 | 22.0 | 10.0 | 2.0 | N/A | 8 | 1.4B |
| 1000 | 305.0 | Spooled | N/A | 4 | 19.8 | 9.0 | 1.0 | N/A | 4 | 1.4B |

UNDG classification: 1.1B from 1,5 m and 1.4B from 6 m

Special version: 3.0 ft (0,91 m) for 1.1B (for MX market only) – produce at MX only

PROPERTIES

| Item | Feature | Details |
|-----------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detonator | Shell Material | Aluminium |
| | Shell Load | Equivalent of 180mg base charge allows to initiate 3 to 5 grams per meter PETN detcord or shocktube. |
| | Detonator Housing | Detonator housed within a red colored plastic clip (extended Bunch connector) that allows for perpendicular connection of the shock tube or detonating cord. |
| | Maximum Delay | 20,000 ms (this allows for long-period delayed blasts from a single Blasting Machine.) |
| | Delays available | 1 to 20,000ms Programmed in 1ms increments. |
| | Programmability | Factory pre-programmed value used OR field programmability. * |
| | Accuracy | Within 0.01% of programmed value. |
| | Traceability | Individual detonator traceability – serial # on ASIC memory. |
| | Polarity | Not polarity sensitive. |
| | Resistance to EMP, EMC, RF and electromagnetic interference | Meets minimum requirements for CE 13763-27 standards. |



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| Item | Feature | Details |
|---------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Leg-Wire & Bus Line | | |
| | Leg wire length | 1.5 m for 1.1B and 6 m for 1.4B/S Special version: 3.0 ft (0,91 m) for 1.1B (for MX market only) – produce at MX only |
| | Bus line compatibility | Compatible with E★STAR connector (0,6 or 0,8 mm Cu Busline) |
| Detonator Connector | Material | Standard Yellow |
| | Bus-line connection | Accepts single 0.6mm or 0,8 mm Cu Bus-line |

** Generally, a user will use the default 901ms or 712ms as the firing time, thus no need for a Logger. DBM can auto detect the detonator by using the ABD (Auto Bus Detect) method.*

STORAGE

Store in accordance with all applicable local, state, provincial and federal laws.

SHELF LIFE

For optimum accuracy, use within five years from date of manufacture under good storage conditions.

TRANSPORTATION DATA

UN CLASSIFICATION

Shipping Name: Detonators, Electric
Class & Division: 1.4B
ID Number: UN 0255

US DOT REFERENCE NUMBER

EX-0103067

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