

E★STAR STARTER

PRODUCT INFORMATION BROCHURE

E★STAR Starter – The explosive industry’s premium electronic starting system for Shock Tube or detonating cord initiation.

ADVANTAGES

- Functional bunch-block design for locking Shock Tube 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
- Shock Tube 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: 1 MPa / 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.



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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
200	61	Spooled	N/A	8	13.4	16.1	2.0	NA	8	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

PROPERTIES

Item	Feature	Details
Detonator	Shell Material	Aluminium
	Shell Load	Equivalent of 180 mg base charge allows to initiate 3 to 5 grams per meter PETN detcord or Shock Tube.
	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 20,000 ms Programmed in 1 ms 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		
	Bus- line compatibility	Compatible with E★STAR connector (0.8 mm Cu Bus-line)
Blasting Machines		Lead line length of up to (610 m) (2000 ft) may be used for safety.
DBM-1	Lead-wire length	Up to (2,000 ft) (610 m) 0.8 mm Cu
DBM1600-2-K or RC	Lead-wire length	Up to (2,000 ft) (610 m) 0.8 mm Cu
Detonator Connector	Material	Standard Plastic Connector
	Bus-line connection	Accepts single 0.6mm or 0.8mm Cu Bus line

* Generally, a user will use the default 901 ms or 712 ms as the firing time, thus no need for a Logger. DBM can autodetect 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 2014030694

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