

MILLISECOND (MS) DETONATOR

MS detonators are a series of high strength non-electric detonators with millisecond delay intervals ranging from 25 ms to 1000 ms.

MS detonators consist of a non-electric detonator, a length of shock tube, and a plastic J clip connector. The detonator incorporates delay elements, primary explosive, and a high strength PETN base charge inside an aluminium shell.

The shock tube is high strength, high abrasion resistant tubing which transmits the initiation signal to the detonator. One end of the shock tube is crimped and sealed into the detonator shell and the other end is closed off by a waterproof seal and fitted with a plastic J clip. The plastic J clip provides a rapid and secure means of attaching the shock tube to the detonating cord.

APPLICATION

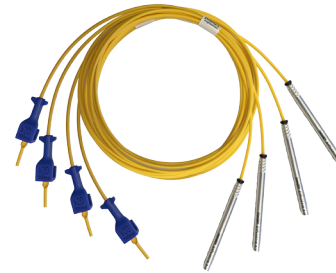
MS detonators are designed for use as an in-hole initiating system for all blasting applications. MS detonators are commonly used for initiation of cast boosters and cap sensitive cartridge explosives products.

FEATURES AND BENEFITS

- Neatly compatible with the Surface Connector (SC) detonators and Interdet
- Robust, triple layered surlyn shock tube provides superior abrasion and diesel resistance
- Can be used at elevated temperatures up to 70°C
- Convenient packaging
- High degree of accuracy

PHYSICAL PROPERTIES

Detonator	No 8 Strength
Shock Tube Colour	Yellow
Shock Tube Diameter	3mm
Shock Tube VOD	2000m/s
Packaged as Explosives Class: 1.4B UN No: 0361	



DELAY RANGE (ms)

DELAY #	-	1	2	3	4	5	6	7
Nominal Delay (ms)	-	25	50	75	100	125	150	175
DELAY #	8	9	10	11	12	13	14	15
Nominal Delay (ms)	200	225	250	275	300	325	350	375
DELAY #	16	17	18	19	20*	21	22	23
Nominal Delay (ms)	400	425	450	475	500*	550	600	650
DELAY #	24	25	26	27	28	29	30	
Nominal Delay (ms)	700	750	800	850	900	950	1000	

*Standard delay is #20 (500ms). Other delays available by special request only

PACKAGING

Length (m)	6	7	9	12	15	18	24
Case Weight (kg)	5	5	5	5	5	5	5
Units Per Case	80	80	60	40	40	30	25

MS detonators are packed into vacuum sealed foil internal bags, which are then placed inside corrugated cardboard cartons.

* Additional lengths are available to contract customers.

STORAGE AND HANDLING

MS detonators should be stored in a cool, dry, detonator magazine licensed for Class 1.4B explosives.

SHELF LIFE

Shelf life is four years when stored in ideal conditions. Once shrink wrap is broken product must be used within 12 months.

SAFETY

MS detonators provide a high level of safety against initiation by static electricity, stray electrical currents and radio frequency transmissions. MS detonators contain sensitive explosive components and all care should be taken to avoid accidental initiation by impact, friction or heat.

For more information please consult the Safety Data Sheet.