



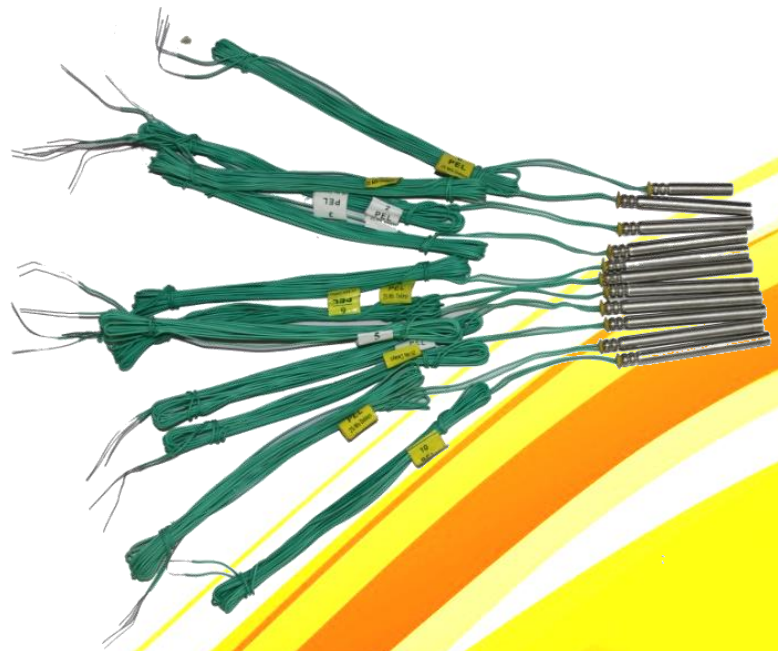
**Premier
Explosives
Limited**

PREMIER Short Delay Detonators

Product Description: Premier Short Delay Detonator consist of a aluminium shell filled with desired quantity of PETN as base charge and a mixture of NHN as primary charge. On top of the primary charge, a pyrotechnique delay element is placed to provide requisite delay.

The flame from the fuse head initiates the prime charge which in turn detonates the base charge.

The shell is fitted with an electric fuse head having firing precision and consistency. The fuse head assembly is crimped to the detonator shell using PVC plug that offers a good resistance to water ingress. The PVC coated lead wires have very good abrasion resistance.



Premier Explosives Limited

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Shell Material	Aluminium
Shell Length	42 mm to 77 mm
Detonator strength	No.8
Delay Range	0 to 20
Delay Time	25 ms interval between delays
Shelf Life	2 years under recommended storage conditions.
No fire current	180 mA for 300 seconds
Minimum All fire currents	0.8A
Minimum series firing current	1.5 A
Firing Impulse	2.4 mWs / ohm
Fuse head resistant	1.6 to 2.4 ohm
Lead wire material	Galvanised Iron
Lead Wire Colour	Green
Standard lead wire length	3 mtrs & 5 mtrs
Base wire guage / dia	25.5 SWG / 0.487 ± 0.02 mm
Lead wire resistance	0.8 ohms/ mtr
Identification mark	PEL Mark on plug

Packaging

25 Nos are made into a bundle ensuring that all the lead wires ends are shunted and folded within the bundle. Two such bundles are wrapped in a kraft paper to form a packet. Required number of packets are placed in a corrugated fiber board case.

Wire Length	No. of Detonators / case
3 mtr	800
5 mtr	600

Storage

Store under moderate and dry condition in a well ventilated approved magazine.

Classification:

PESO : Class 6, Division 3

UN No. Class 1.1 B, U N No. 0030



Delay Period

Delay Nos	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	11
Delay Time(ms)	1	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	275

Advantages : Large range of delays provide flexibility in designing blasting pattern

Recommendations for use:

Short Delay detonators should only be used by personnel who have adequate knowledge in handling and use of explosives.

Short Delay Detonators contain sensitive components and must be handled with care at all times.

Not to be used in a gaseous environment or where there is danger of coal dust explosion.

While using in a circuit, the total resistance to be monitored to ensure recommended in flow of current

Do not use 2 manufacturers product in the same blast.

Safety:

The cases should be handled carefully not to cause accidental initiation by intense impact, friction or heat.

Never force a detonator into explosives cartridge. Always use a pricker made of non-sparking material to pierce the cartridge while priming. Never hold the detonator shell while unfurling the mine for use. Always hold the lead mines 5 cms away from the crimped portion to avoid sudden pressure coming on the fuse head assembly.

Do not handle electric detonators while wearing Woolen or Synthetic clothes or in the vicinity of cell phones, walkie – talkie etc.

When used to initiate the detonating cord trunk line, connect detonator just at the time of blasting. Always keep the ends of lead wires or blasting cable shunted and open just prior to connections. Disconnect the firing cable from the exploder if circuit requires rechecking.

Do not carry out charging of explosives during an approaching storm or when there is lightning near the blast area.

Do not attempt to fight explosive fire.