SOLAR MINING SERVICES
EXPLOSIVES & ACCESSORIES

TECHNICAL DATA SHEET

SUPREME
CORD RELAY
SAFETY • QUALITY • RELIABILITY

DESCRIPTION & APPLICATION

SUPREME CORD RELAYS are used in conjunction with Detonating Cord Trunklines in opencast, metal and coal mines, quarrying, civil construction and in underground metal mines. These provide an accurate delay between blast holes in a row or across burden in multi-row blasts. SUPREME CORD RELAYS can be used for developing various delay patterns.

CONSTRUCTION

SUPREME CORD RELAYS consist of two millisecond delay detonators of the same delay interval crimped in specially designed plastic housing. The configuration of delay detonators inside the plastic housing makes the SUPREME CORD RELAYS bi-directional. The plastic housing has a provision for hooking up detonating cord at either end. The delay interval is printed on the plastic housing for clear identification.

STORAGE

For the best results, store under moderate temperatures and dry conditions in a well ventilated, approved detonator magazine.

ADVANTAGES

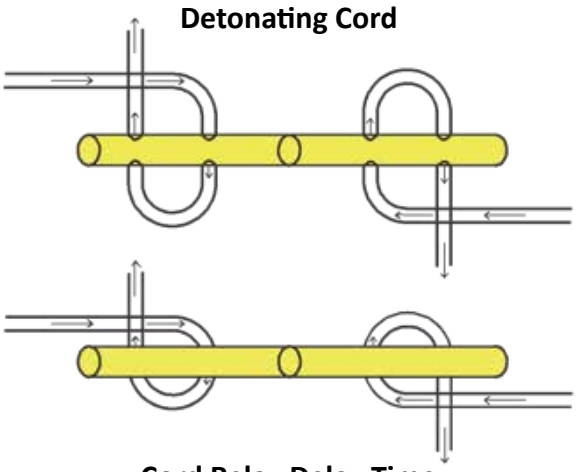
- **SUPREME CORD RELAYS** are non-electric delay devices, immune to extraneous electricity source such as stray current, static electricity and radio frequency (RF) energies.
- The **SUPREME CORD RELAYS** are bi-directional and easy to use.
- The use of tie line in the surface detonating cord hook-up provide 2-3 detonation path thus minimizing the risk of misfire.
- The **SUPREME CORD RELAYS** provide accurate delays. These get initiated sequentially and hence eliminate the problem of overlaps.
- Sequentially firing can easily blast an infinite number of Drilled Holes and facilitate a large blast.
- Maximum charge per delay can be controlled by using relays of different timing delay intervals in the surface hook up.
- Firing of one drill hole at a time is possible when required.

SOLAR MINING SERVICES
EXPLOSIVES & ACCESSORIES

TECHNICAL DATA SHEET

HOOK-UP FOR THE SUPREME CORD RELAY

Lace the Detonating Cord Trunkline with minimum slack between drill holes. Cut the Trunkline end with a sharp knife at the point where Relay is to be connected. Pass one cut end of the detonating Cord through the hole provided at one end in the plastic housing and double loop as shown in the sketch. Repeat the same procedure at the other end.



Cord Relay Delay Time

USAGE

Never use Relay under water. Keep these away from water puddles during use. The cut end of detonating cord should be kept dry. Position the relays close to the boreholes or row being delayed. Do not allow detonating cord to lie over Relays as it can damage the unit resulting in misfires. While blasting using Relays, closed loop surface hook-up should be used.

EXPLOSIVE CLASSIFICATION

Class / Division	VI, Division III
UN Classification	1.1B
UN No.	0029

SAFETY

- Do not subject Relays to impact or friction.
- Do not use Relays under water.
- Do not carry out charging of explosives during an approaching storm or when there is lightning in the blast area.

Recommendations for use

SUPREME CORD RELAYS should be used by personnel who have been trained in the handling and use of explosives. **SUPREME CORD RELAYS** contain sensitive components and must be handled with care and respect at all times.

PACKAGING

50 **SUPREME CORD RELAYS** are packed in cardboard boxes. 20 of these cardboard boxes are packed inside a wooden/fibre board case having anti-static polythene lining. Total Relays per case 1000 numbers.

TECHNICAL PROPERTIES

Product	SUPREME CORD RELAYS
Delay Number	17,25,42,50 & 67ms
Shell Material	Aluminium
MOC	Plastic Block
Quantity/Case	1000 Number

DISCLAIMER

Solar Mining Services cannot anticipate or control the circumstances under which this review of information in the specific context of the intended application. Solar Mining Services will not be responsible for any damage of any nature resulting from those implied warranties, given other than those implied mandatories by local legislation.