Technical Data Sheet

The Power of Partnership

Electric Instantaneous II Detonators

Description

Electric Instantaneous II Detonators are rated as 8* Strength. These detonators contain a sleeved fusehead, a priming composition and a PETN base charge inside a cylindrical aluminium alloy shell. A pair of copper lead-wires, covered by PVC closure plug. One of the lead-wires has a delay label "0" attached. The lead-wires are kept shorted by twisted section, at a bared area, near the free ends.

Electric Instantaneous II Detonators are distributed in Australia by Orica Mining Services.

Safety

Electric Instantaneous II Detonators incorporate a plastic shield around the fusehead to minimise the possibility of static discharge between the fusehead and the detonator shell.

Electric Instantaneous II Detonators are supplied in tight coils with the ends of the lead-wires shorted. This configuration safeguards against accidental initiation by stray currents or radio frequency transmissions.

Note that Electric Instantaneous II Detonators WILL initiate if the lead-wires touch the aerial of a radio transmitter (including mobile telephones). Normal blasting procedures must ensure that radio transmitters are not allowed near electric detonators.

Application

Electric Instantaneous II Detonators provide effective initiation for general purpose blasting, pipeline and utility trenching and construction operations.

Electric Instantaneous II Detonators can be used in wet conditions if adequate precautions are taken to insulate the lead-wire connections.

Technical Properties

Detonator	
Shell:	Aluminium Alloy
Base Charge:	800mg PETN
Fusehead resistance:	0.9 Ohms
All fire current:	0.55 Amps
No fire current:	0.3 Amps
Lead-Wires	
PVC colours:	Yellow / White
Wire diameter:	0.57mm
Length:	3.6m
Resistance:	0.13 ohm/m

Recommendations for Use

Electric Instantaneous II Detonators should only be used by personnel who have been correctly trained in the handling and use of explosives. Electric Instantaneous II Detonators contain sensitive components and must be handled with care and respect at all times. Electric Instantaneous II Detonators used inside blastholes should always be secured inside suitable primers which fully enclose the detonator shell to protect it from abrasion or impact damage during charging.

Electric Instantaneous II Detonators are tested for continuity and resistance after assembly, but each unit should be checked before use, as required by local Statutory Regulations.

An approved circuit tester and a suitable container, to enclose the detonator, should be used when testing detonators. The resistance of the circuit should be measured, using an approved tester, to confirm that the exploder or firing equipment available can supply sufficient energy to reliably initiate all detonators in the circuit. Single series connections are recommended to simplify hook-up and avoid the need to "balance" parallel circuits.

Electric Instantaneous II Detonators are supplied with the leg-wires shorted together, and should remain this way until final hook-up. Before touching bare leg wires, operators should make contact with an effective earthed point to disperse any static electrical charges, which may have accumulated during charging. After joining the detonator leg-wires together, the bare connections should be insulated to minimise the possibility of current leakage from the circuit.

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Electric Instantaneous II Detonators have proven to be robust in a wide variety of applications, but reasonable care should be taken to prevent damage to the leg-wires during handling. If the plastic insulation is damaged in any way which exposes the wire core within, misfires may result due to current leakage to earth.

Electric Instantaneous II Detonators can be safety used in the vicinity of radio frequency transmitters in accordance with the "safe distances" specified in Australian Standard 2187, Part 2 - 1993.

Explosive Classification

Authorised Names:	ELECTRIC INSTANTANEOUS II DETONATORS
Correct Shipping Name:	DETONATORS, ELECTRIC for blasting
UN No:	0456, 0030 or 0255
Classification:	1.4S, 1.1B or 1.4B

Packaging

Electric Instantaneous II Detonators are packed in UN certified cardboard cases. A case contains a total of 256 detonators. Within each case are 8 boxes each containing 32 detonators. A case has dimensions 430mm x 400mm x 320mm and weighs 14.5kg gross.

Storage and Handling

Electric Instantaneous II Detonators should be stored in a cool, dry, ventilated magazine licensed for Class 1.1B products.

Batches of detonators more than 3 years old should be sampled to check for function prior to use.

Trademarks

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Disclaimer

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