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, are soldered to the fuse-head and crimped into the detonator shell with a PVC closure plug. A T&T label indicating the detonator “0” delay is attached on the leg wires. The lead-wires are kept shorted by a twisted section, at a bared area, near the free ends.

Electric Instantaneous II Detonators are distributed in Australia by Orica.

Application
Electric Instantaneous II Detonators provide effective initiation for general purpose blasting, pipeline and utility trenching, underground development and construction operations. Electric Instantaneous II Detonators can be used in wet conditions if adequate precautions are taken to insulate the lead-wire connections.

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.

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.

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.

Technical Properties

<table>
<thead>
<tr>
<th>Detonator</th>
<th>Shell</th>
<th>Aluminium Alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Charge</td>
<td>800mg PETN</td>
<td></td>
</tr>
<tr>
<td>Fusehead resistance</td>
<td>0.8 Ohms</td>
<td></td>
</tr>
<tr>
<td>All fire current</td>
<td>0.55 Amps</td>
<td></td>
</tr>
<tr>
<td>No fire current</td>
<td>0.3 Amps</td>
<td></td>
</tr>
<tr>
<td>Min fire current</td>
<td>4.1 mJ/ohm</td>
<td></td>
</tr>
<tr>
<td>Lead-Wires</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PVC Colours</td>
<td>Yellow / White</td>
<td></td>
</tr>
<tr>
<td>Conductor</td>
<td>Copper</td>
<td></td>
</tr>
<tr>
<td>Wire diameter</td>
<td>0.57mm</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>3.6m</td>
<td></td>
</tr>
<tr>
<td>Resistance</td>
<td>0.14 ohm/m</td>
<td></td>
</tr>
</tbody>
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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 – 2006.

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 13.5kg gross

Storage and Handling

Product Classification
Authorised Name: ELECTRIC INSTANTANEOUS II
Proper Shipping Name: DETONATORS, ELECTRIC
UN No: 0456, 0030 or 0255
Classification: 1.4S, 1.1B or 1.4B

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

The shelf life of Electric Instantaneous II detonators is 2 years from the date of manufacture.

Disposal
Disposal of explosive materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a local Orica representative for information on safe practices.

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.

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Emergency Telephone Numbers
Within (country): 1800 033 111
Outside (country): 61 3 9663 2130