ELECTRIC SUPER™ COAL

Electric Millisecond Delay Detonator

Product Description
ELECTRIC SUPER COAL is a high strength, static resistant, electric detonator designed to provide precision and accuracy in all delay periods with no overlap. The copper-clad iron legwires reduce blast circuit resistance and still allow for magnetic separation; and are insulated with a superior polyolefin material which offers excellent resistance to cuts, abrasion, oil, low temperature and high humidity. The legwires on each delay period are color-coded for easy identification, and an easy-to-read tag displays the delay period and nominal firing time. The Dyno Nobel shunt protects the factory-stripped wire ends from corrosion and shields them from stray current.

ELECTRIC SUPER COAL detonators are specifically designed for the underground coal industry, and, as such, meet all requirements of the Mine Safety and Health Administration found in CFR 30, Parts 7.69(f) and 75.1310.

Recommended firing current:
- Series wiring: a minimum of 3 amps AC or 1.5 amps DC
- Parallel wiring: a minimum of 1 amp AC or DC per detonator
- Series-in-parallel wiring: a minimum of 2 amps AC or DC per series
The maximum recommended continuous firing current is 10 amps per detonator.

<table>
<thead>
<tr>
<th>Delay Period</th>
<th>Nominal Firing Time (msec)</th>
<th>Legwire Color</th>
<th>Delay Period</th>
<th>Nominal Firing Time (msec)</th>
<th>Legwire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
<td>both White</td>
<td>7</td>
<td>500</td>
<td>both Red</td>
</tr>
<tr>
<td>2</td>
<td>100</td>
<td>both Pink</td>
<td>8</td>
<td>600</td>
<td>Lt Green</td>
</tr>
<tr>
<td>3</td>
<td>175</td>
<td>both Lt Blue</td>
<td>9</td>
<td>700</td>
<td>Lt Blue &amp; White</td>
</tr>
<tr>
<td>4</td>
<td>250</td>
<td>both Orange</td>
<td>10</td>
<td>800</td>
<td>Pink &amp; Orange</td>
</tr>
<tr>
<td>5</td>
<td>325</td>
<td>White &amp; Dark Green</td>
<td>11</td>
<td>900</td>
<td>Lt Blue &amp; Orange</td>
</tr>
<tr>
<td>6</td>
<td>400</td>
<td>both Gold</td>
<td>12</td>
<td>1000</td>
<td>Lt Blue &amp; Pink</td>
</tr>
</tbody>
</table>

Hazardous Shipping Description
Detonator, Electric, 1.4B, UN 0255 II
EX 1992070060D
**ELECTRIC SUPER™ COAL**

**Application Recommendations**
- **NEVER** use the ELECTIC SUPER COAL with other types of Dyno Nobel electric detonators or electric detonators from another manufacturer. Wiring different brand electric detonators together in a blast circuit may result in misfires and is in violation of federal regulations. Even though some types of Dyno Nobel electric detonators are electrically compatible, they should never be planned to be used together as a standard blasting practice. Where special circumstances demand a larger number of standard delay periods, always contact a Dyno Nobel representative for specific recommendations before planning the blast design.
- **NEVER** use electric detonators near radio frequency transmitters unless in accordance with IME SLP 20.

**Radio Frequency Hazard Alert**
- When blasting with electric detonators, **no personal communication equipment of any type should be on the blast site regardless of whether it is on or off**. This includes but is not limited to: portable / hand held radios, radio moderns, pagers, mobile and cell phones.
- Radio-Frequency (RF) transmitters include but are not limited to: AM and FM radio; television, radar; cellular phones and other devices that are cellular based (i.e., onboard vehicle systems like “On Star”); wireless data acquisition systems; personal data devices such as “Palm Pilots” and “Pocket PCs” with built-in cellular phones or communication systems; Pagers; and Global Positioning Systems (GPS) base stations.
- Refer to the Institute of Makers of Explosives Safety Library Publication #20 for distance / wattage parameters and guidance when using two-way radios and cell phones near electric detonators.

**Transportation, Storage and Handling**
- ELECTIC SUPER COAL must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.

- For maximum shelf life (3 years), ELECTIC SUPER COAL must be stored in a cool, dry, well ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product, see the booklet “Prevention of Accidents in the Use of Explosive Materials” packed inside each case and the Safety Library Publications of the Institute of Makers of Explosives.
- The disposable shipping tray is not part of the legal shipping package and is used only to prevent “relative motion” while in transit. If the tray is not used, it is mandatory that all explosives shipments are properly blocked and braced.

### Packaging

<table>
<thead>
<tr>
<th>Legwire Length</th>
<th>Wire Configuration</th>
<th>Nominal Resistance (ohms)*</th>
<th>Quantity per</th>
</tr>
</thead>
<tbody>
<tr>
<td>m ft</td>
<td></td>
<td></td>
<td>Carton Trayb</td>
</tr>
<tr>
<td>4 14</td>
<td>Kirked</td>
<td>4.30</td>
<td>25 250</td>
</tr>
</tbody>
</table>

Use Part Number 79000014**H to ensure the right product is ordered / delivered. Use “0” before delay number if a single digit (lower than period 10).

- Length rounded to nearest whole meter.
  - * #21 AWG, copper-clap iron wire
  - b 10 shipping cases per disposable shipping tray

Note: Products are available in a variety of wire lengths. Custom lengths are subject to surcharge and may require longer than usual lead times. Check with your Dyno Nobel representative for details.

**Case Dimensions**

26 ½ x 16 x 10 cm 10 ¾ x 6 ¼ x 3 ¾ in

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