ELECTRIC SUPER™ STARTER
New Series

Electric Instant Detonator

Product Description
ELECTRIC SUPER STARTER is an instant electric detonator housed in a plastic bunch block, facilitating easy connection to both shock tube and detonating cord. ELECTRIC SUPER STARTER is insulated with HDPE which offers added protection from extraneous currents. It has 450 mg RDX and or PETN base charge.

Recommended firing current:
- Series wiring: a minimum of 2 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.

Shell Material | Aluminum
Shell Length   | 60.9 mm / 2.4 in
Legwire Color  | Red & Yellow
Maximum Water Pressure | 60 PSI 8 hrs
Connector Blocks | Holds up to 8 shock tubes; Initiates 10-200 grain detonating cord
Shelf Life Maximum | 5 years (from date of production)
Maximum Usage Temperature | 66°C (150°F)
Ohms Resistance (H) | 1.6
Net Explosive Content | 0.045 kg per 100 units, 0.1 lbs

Hazardous Shipping Description
Detonator, Electric, 1.4B, UN 0255
EX–2010080268

SDS #1178
ELECTRIC SUPER™ STARTER

Application Recommendations

• NEVER use an ELECTRIC SUPER STARTER detonator with other 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 not be used together as a standard blasting practice.

• 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., on-board 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

• ELECTRIC SUPER STARTER must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.

• For maximum shelf life (5 years), ELECTRIC SUPER STARTER 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>Length</th>
<th>Case Weight</th>
<th>Wire Configuration</th>
<th>Quantity per Case</th>
<th>NEQ (g)</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>m</td>
<td>ft</td>
<td>lb</td>
<td>kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.9</td>
<td>16</td>
<td>4.0</td>
<td>1.8</td>
<td>Short Fold</td>
<td>20</td>
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</tbody>
</table>

Case Dimensions

286 x 194 x 127 mm   11¼ x 7¾ x 5 in

Electrical Data

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Current</th>
<th>Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Fire Current</td>
<td>0.25 amps</td>
<td>Double Wire to Shell</td>
</tr>
<tr>
<td>All Fire Current</td>
<td>1.00 amps</td>
<td>Pin to Pin</td>
</tr>
<tr>
<td>Series Ignition Current</td>
<td>1.50 amps</td>
<td></td>
</tr>
<tr>
<td>No Fire Impulse</td>
<td>2.5 mJ/ohLP</td>
<td></td>
</tr>
<tr>
<td>All Fire Impulse</td>
<td>5.5 mJ/ohLP</td>
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</table>

Electrostatic Sensitivity

Product Disclaimer

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