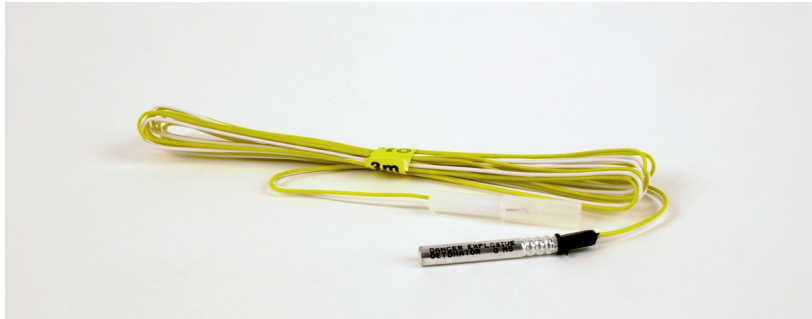


# Electric Detonator

Technical  
Information



## Description

Dyno Nobel supply a safe electric detonator with a strength rating of No.8. The detonator is of the NPED-type, (Non Primary Explosive Detonator, US patent No.4.727.808), in which the primary explosive (lead azide) has been replaced with a secondary explosive. This gives increased safety in both manufacturing and handling. The electric detonator uses electrical energy to heat a bridge wire that ignites a burning mixture which in turns ignites a secondary explosive.

## Application

For use in initiating blasts in underground and surface applications.

## Features & Benefits

The electric detonator is designed to function safely and reliably over a wide range of climatic and environmental conditions.

## Properties

<b>Explosives Class: 1.1B</b>	<b>U.N. No: 0030</b>
Detonator strength	No. 8 Strength
Leg wire colours	Yellow/White
Fuse head resistance	0.9 – 1.4
Max.current, no initiation,(A)	0.25
Firing current, recommended,(A)	1.0
Firing impulse, (mJ/ohms)	5
Explosive	1 g PETN/RDX
Water resistance	48hr in 30 metres of water

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## Recommendations

### Use

- It is recommended that the Electric detonator is used in accordance with state laws and regulations.
- Electric detonators should be tested before use by approved blasting circuit testers.
- Electric detonators should only be initiated using approved firing devices.
- Leg wires should remain 'shunted' until final hook up.
- Electric detonators can be initiated by extraneous sources such as mobile phones, radio frequencies, stray ground currents static electricity and lightning. Care should be taken when operating in such environments.

**Water Resistance** – 48hr in 30 metres of water.

**Temperature Range** – Functional temperature range is -40°C to +70°C.

**Shelf Life** – The electric detonator has a recommended shelf life of two (2) years, when transported and stored under ideal conditions.

## Packaging

Units per case: 250

## Safe handling, transportation & storage

**First Aid** - Detailed first aid information regarding this product is contained on the relevant Dyno Nobel Material Safety Data Sheet.

**Safety** - All explosives are classified as dangerous goods and can cause personal injury and damage to property if used incorrectly.

**Transportation and Storage** - All explosives must be handled, transported and stored in accordance with all relevant regulations. Stock should be rotated such that older product is used first.

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The information and suggestions contained in this document concern explosive products that should only be dealt with by persons having the appropriate technical skills, training and licence. The results obtained from the use of such products depend to a large degree on the conditions under which the products are stored, transported and used.

While Dyno Nobel makes every effort to ensure the details contained in the document are as accurate as possible, the conditions under which the products are used are not within its control. Each user is responsible for being aware of the details in the document and the product applications in the specific context of the intended use. If technical advice is required in the specific application of the products then you should contact Dyno Nobel for assistance.

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