

# ELECTIC SUPER™ COAL

Technical  
Information



## Electric Millisecond Delay Detonator



### Product Description

ELECTIC 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.

ELECTIC 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.

## Properties

SDS  
#1076

<b>Shell Material</b>	Copper
<b>Shell Length (range)</b>	73.6 - 96.5 mm 2.9 - 3.8 in
<b>Legwire Material</b>	Copper-clad Iron
<b>Maximum Water Depth</b>	76 m 250 ft
<b>Shelf Life Maximum</b>	3 years (from date of production)
<b>Maximum Usage Temperature</b>	+ 66°C (150°F)
<b>Net Explosive Content</b>	0.0885 kg 0.1947 lb

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

### Hazardous Shipping Description

Detonator, Electric, 1.4B, UN 0255 II  
EX 1992070060D



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## 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 modems, 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

- 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

Legwire Length		Wire Configuration	Nominal Resistance (ohms) <sup>a</sup>	Quantity per	
m	ft			Carton	Tray <sup>b</sup>
4	14	Kirked	4.30	25	250

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.

<sup>a</sup> #21 AWG, copper-clad iron wire

<sup>b</sup> 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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