

ElectricCOAL™

Permissible, Electric, Short-Delay Detonator Assembly

Description

ElectricCOAL™ detonator assemblies are designed for the underground coal industry. The series features 12 delay periods ranging from 25 to 1000 milliseconds and has color-coded copper-clad iron leg wires. *ElectricCOAL™* detonator assemblies meet all requirements of the United States' Mine Safety and Health Administration.

Key Benefits

- Provides excellent blast control
- Ensures initiation reliability with all permissible explosives
- Protects against accidental detonation caused by static electricity
- Assures reliable performance, even where “water hammer” conditions exist
- Allows easy identification in extreme conditions
- Permits easy magnetic removal of wires from broken coal
- Assures superior performance in the toughest of environments.

Features

- Accurate, fuse technology delays
- The highest explosive strength output in commercial detonators
- Built-in anti static features
- High pressure resistant detonators
- Color coded leg wires and water resistant delay tags with easy-to-read numbers
- Copper-clad iron leg wires
- Polyolefin leg wire insulation that is not adversely affected by low temperatures, water immersion or extended storage at high humidity

Properties

| Delay Periods | Nominal Firing Time (ms) | Legwire Color Code |
|---------------|--------------------------|----------------------------|
| 1 | 25 | Both white |
| 2 | 100 | Both pink |
| 3 | 175 | Both light blue |
| 4 | 250 | Both orange |
| 5 | 325 | One white, one dark green |
| 6 | 400 | Both gold |
| 7 | 500 | Both magenta |
| 8 | 600 | Both light green |
| 9 | 700 | One light blue, one white |
| 10 | 800 | One pink, one orange |
| 11 | 900 | One light blue, one orange |
| 12 | 1000 | One light blue, one pink |

Handling and Initiation

| Recommended Firing Current | |
|----------------------------|---|
| Series wiring | A minimum of 1.5 amps DC or 3 amps AC |
| Parallel wiring | Parallel wiring a minimum of 1 amp AC or DC per detonator |
| Series-in-parallel wiring | Series-in-parallel wiring a minimum of 2 amps AC or DC per series |

Special Instructions

ElectricCOAL™ detonators are electrically compatible with *ElectricMS™* and *ElectricLP™* delay detonators. They are not electrically compatible with any other electric detonators from ORICA or other manufacturers. Wiring this detonator with any other detonator may result in misfires.

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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.

Packaging

| Legwire Length (approx.) | | Resistance (Ohms) | Quantity Per | |
|--------------------------|--------|-------------------|--------------|------|
| Feet | Meters | | Carton | Case |
| 14 | 4 | 4.3 | 25 | 250 |

ElectricCOAL™ detonator assemblies are in figure-eight coils.

For additional lengths contact your explosive supplier.

Storage

For best results, store at moderate temperatures and dry conditions in a well ventilated, approved detonator magazine.

Recommended **shelf life** under proper storage conditions is five (5) years from date of manufacture.

Hazardous Materials Shipping Description

Detonator, Electric
Class and Division: 1.4B
UN 0255, PG II

EX 9207008 (12 to 16')
EX 9207060 (20' & higher)

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Emergency Contact Telephone Numbers

For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents:

Canada: Orica Canada emergency response **1-877-561-3636**

USA: Chemtrec **1-800- 424-9300**

For lost, stolen or misplaced explosives:

USA: BAFT **1-800-800-3855**. Form ATF F5400.0 must be completed and local authorities (state / municipal police, etc) must be advised.

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