

Electric Detonators

EPC-UK supply standard electric detonators manufactured by Davey Bickford in France.

The Daveydet Short Delay range consists of 21 delay numbers with a time interval of 25ms between successive numbers in the range to give better breakage and controlled vibration.

The Daveydet Half-Second range consists of 13 delay numbers with a time interval of 0.5 seconds between successive numbers in the range.

Daveydet Medium Intensity detonators are suitable for general blasting operations. For situations where a higher degree of protection from electrical sources such as radios, mobile phones etc. is required, the Daveydet High Intensity detonators are more suitable. The High Intensity detonator requires the use of a high output exploder.

Seismic detonators are available upon request.



Common features for standard electric detonators

The detonator shell is made of Aluminium. The base of the detonator tube is stamped with a letter Y to identify the manufacturer. The delay period number is printed on the side of the detonator. Instantaneous detonators have no markings on the base of the aluminium tube. The initiating power of these detonators is equivalent to no. 10 strength as a result of the compression of the 0.8g base charge.

Triple crimping of the detonator shell ensures excellent water resistant characteristics:

2 days at 25 bars

8 days at 10 bars

28 days at 5 bars.

The twinned copper wires can support a tensile strength of 10daN without internal disturbance of the fusehead assembly. The resistance per unit length of twinned wires is 0.14W/m for 0.56mm diameter copper wire and 0.095W/m for 0.7mm diameter copper wire.

The lead wires of the detonator are copper and have colour-coded insulation.

The wire coating is formed from PVC, which offers a good resistance to abrasion.

Delayed action Daveydet detonators are available in the following delay numbers:

- Short Delay series 1 to 20 inclusive
- delay interval 25 milliseconds
- Half Second series 1 to 10 inclusive
- delay interval 500 milliseconds.

Behaviour to static electric discharge between:

Each fusehead is protected by an insulating anti-static sleeve. EPC-UK also supply the Daveydet P instantaneous and short delay range of detonators. These are approved for use in coal and other safety lamp mines. The half second permitted range of detonators is approved for use in certain circumstances underground in coal and other safety lamp mines. The electrical characteristics of these detonators are different to Medium Intensity Detonators.

For Seismic prospecting EPC-UK supply the Daveydet SR range of detonators. These detonators have unique electrical characteristics and cannot be fired in the same circuit as other detonators.



Product and Company Identification

Product Identifier	SERIES 4000 ELECTRIC DETONATOR Daveydet MI (medium intensity), delay, short delay and instantaneous; Daveydet HI (high intensity) instantaneous; and Daveydet SR (seismic) detonators.
Use of the Product	Explosive initiation - industrial use These detonators are not suitable for use in gassy mines. Daveydet P detonators should be used in those conditions.
Manufacturer / Supplier	EPC-UK EXPLOSIVES
Address	ROUGH CLOSE WORKS CARNFIELD HILL SOUTH NORMANTON ALFRETON DERBYSHIRE, DE55 2BE
Telephone Number	01773 832253
Contact e-mail	info@epc-groupe.co.uk
Emergency Telephone Number	01773 832253

Product Specification

The detonators have a plastic tag on one of the wires that indicates the delay number of the detonator.

Detonator Type	Wire Colours	
High Intensity Instantaneous Detonators	White	White
Medium Intensity Instantaneous Detonators	Yellow	White
Medium Intensity Short Delay Detonators	Pink	Green
Medium Intensity Half Second Detonators	Red	Yellow

The fuseheads in Daveydet detonators have the following electrical characteristics:

	Medium Intensity	High Intensity
Fusehead Resistance	0.45 ohms	0.05 ohms
Guaranteed no fire current	0.65 amps	4.2 amps
Guaranteed all fire current for one detonator	1.0 amps	7.0 amps
Recommended series firing current	1.7 amps	13 amps
Maximum no fire energy	8mj/W	500mj/W
Minimum operating energy	15mj/W	1000mj/W

The fuseheads in Daveydet detonators have the following electrical characteristics:

• Short circuited lead wires and shell	11kV with 2000pF	25kV with 3000pF
• One lead wire and the shell	6kV with 2000pF	25kV with 3000pF
• Two ends of the detonator lead wires	5kV with 2000pF	25kV with 3000pF

Classification and Labelling

Electric detonators with lead wire lengths between 2m and 12m are presented as twinned folded wires.

These detonators are classified 1.1B. The UN No. for transportation is UN.0030.

Upon request detonators can also be packaged as 1.4B and the UN No. for transportation is UN.0459.

Plain Detonators

Herica plain detonators for use with safety fuse can be supplied by EPC-UK.

For further details on these products please contact the Explosive Engineering Department department of EPC-UK.

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TERMS AND CONDITIONS: "The products and services that we supply to you are sold subject to our standard Terms and Conditions of Supply and any other Special Conditions that we notify to you. Copies of these conditions are available on request."

The information contained in this leaflet is given without warranty and cannot cover all conditions of use. Users should undertake their own tests to ensure the suitability of the products for their own particular application.

