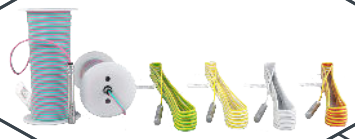
DaveyDet®

Davey Bickford



September 2021
Data Sheet V0921

ELECTRIC DETONATORS

APPLICATION

- Open pit mining or quarrying
- Underground mining (except coal) and tunneling
- Any specific blasting in non-permissible atmosphere (special products available for permissible environments)

SAFETY

- High resistance to electrostatic discharges
- High resistance to shocks

KEY BENEFITS

Due to continuous production and quality control processes, these products involve a high level of performance, accuracy and a wide range to obtain:

- Minimum vibration levels
- Optimum fragmentation
- Crimping ensuring ignition after being immerged 7 days at 5 bars
- Highly visible color codes for lead wires
- Abrasion and traction resistance
- Eased handling, due to duplex wire
- Stripped and isolated wire ends

RECOMMENDATIONS FOR USE

- **DaveyDet®** detonators must not be used in the same circuit with other brands of electrical detonators
- The different intensities (Medium, High, Super High) must not be used simultaneously in the same circuit
- In addition to being well designed and properly loaded, a successful blast requires good, tight and insulated connections, a complete resistance check carried out before and after the tamping and a blasting machine of appropriate rating

DaveyDet® a wide range of delays to answer most of electric blast plan requirements.

The 800 mg PETN base charge confers a full priming compatibility with commercial explosives.

	Instantaneous	Short Delay Series 30 Delay Numbers	Delay Series 12 Delay Numbers
Nominal Firing Time	Instantaneous Depending on the blasting sequence, down to a milisecond	**CR n°1 to 20:** 25 to 500 ms with 25 ms interval **CR n°24 to 40:** 600 to 1000 ms with 100 ms interval **CR n°48 to 80:** 1200 to 2000 ms with 200 ms interval	**n°1 to 12:** 0.5 to 6 s with 500 ms interval

WARNING

Products described herein are potentially hazardous and must be used in accordance with applicable laws or regulatory provisions. Since Davey Bickford cannot anticipate all of the possible applications, and conditions under which this information and its products may be used, it is the responsibility of each user to review the information in the specific context of the intended application. Davey Bickford specifically disclaims all warranties, express or implied, including accuracy, non-infringement and implied warranties of merchantability or fitness for a particular purpose. Davey Bickford specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance of this information.

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TECHNICAL CHARACTERISTICS

Fusehead Characteristics	Medium Intensity (N59K)	High Intensity (N130K)	Super High Intensity (N165K)
Fusehead resistance	0.32 Ω ± 0.10 Ω	0.04 Ω ± 0.01 Ω	0.035 Ω ± 0.015 Ω
Guaranteed no fire current, I0	0.65 A	4.2 A	4.5 A
Guaranteed all fire current, I1	1 A	7 A	11 A
Maximum no fire energy, W0	8 mJ/Ω	500 mJ/Ω	1100 mJ/Ω
Maximum all fire energy, W1	15 mJ/Ω	1000 mJ/Ω	2000 mJ/Ω
Recommended fire current for 5 dets in serie, I	> 2 A	> 15 A	> 25 A
ESD Resistance*	**Class II**	**Class I**	**Class 0**
Minimum ESD impulse energy «pin to pin»	6 mJ/Ω	60 mJ/Ω	300 mJ/Ω
Minimum ESD impulse energy «pin to case»	12 mJ/Ω	120 mJ/Ω	600 mJ/Ω

Detonator Standard Formats	
Format and Length**	Wire definition**
Folded - 4, 6 and 8 m	Cu 0.51 mm / AWG 24 / PVC 0.17 Ω /m
Spooled - 10, 15, 20, 30, 40 and 50 m	Cu 0.60 mm / AWG 23 / PE 0.12 Ω /m

* These characteristics are expressed in accordance with the methodology adopted by the French body INERIS.
** Other lengths and wires available on special request. For other options, please contact your Davey Bickford representative.

PERFORMANCES

Operating and storage temperature	-10°C to +50°C / +14°F to +122°F
Shelf Life	2 years
Certificates	Compliant with European Standards EN 13763-1 to 25, and with Explosive Directive 2014/28/EU Certified by INERIS: CE Product Type Certificates: 0080.EXP.97.0072 (Medium Intensity), 0080.EXP.97.0073 (High Intensity), 0080.EXP.97.0074 (Super High Intensity) Compliant with European Directive REACH 1907/2006/EC Transport Certification and Packaging: UN 0030 - 1.1B / UN 0456 - 1.4S

Do you want to get in touch with one of our experts?

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