

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 atmosphere)

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 immersed 7 days at 5 bars
- Highly visible color codes for conducting wires
- Abrasion and traction resistance
- Ease handling, due to duplex wire
- Stripped and isolated wire ends

SAFETY

- High resistance to electrostatic discharges
- High resistance to shocks

RECOMMENDATIONS FOR USE

- **DaveyDet®** detonators must not be used in the same circuit as 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 millisecond	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

STANDARD LENGTH

Format and Length*	Wire definition*
Folded - 4, 6 and 8 m	Cu 0.51 mm / AWG24 / PVC 0.17 Ω /m
Spoiled - 10, 15, 20, 30, 40 and 50 m	Cu 0.60 mm /AWG23 / PE 0.12 Ω /m

* Other lengths and wires available on special request. Please contact your Davey Bickford representative.

TECHNICAL CHARACTERISTICS

Characteristics	Medium Intensity (N59K)	High Intensity (N130K)	Super High Intensity (N165K)
Fusehead resistance (Ω)	0.32 Ω ± 0.10Ω	0.04 Ω ± 0.01 Ω	0.035 ± 0.015 Ω
Guaranteed No fire current, I0 (A)	0.65 A	4.2 A	4.5 A
Guaranteed All fire current, I1 (A)	1.00 A	7.00 A	11.00 A
Maximum no fire energy, W0 (mJ/Ω)	8 mJ/Ω	500 mJ/Ω	1100 mJ/Ω
Maximum all fire energy, W1 (mJ/Ω)	15 mJ/Ω	1000 mJ/Ω	2000 mJ/Ω
Recommended fire current for 5 dets in serie, I (A)	> 2 A	> 15 A	>25 A
ESD resistance**	Classe II	Classe I	Classe 0
Minimum ESD impulse energy «pin to pin» (mJ/Ω)	6 mJ/Ω	60 mJ/Ω	300 mJ/Ω
Minimum ESD impulse energy «pin to case» (mJ/Ω)	12 mJ/Ω	120 mJ/Ω	600 mJ/Ω
Operating and storage temperature	-10°C to +50°C		
Shelf Life	2 years		
Certificates	Compliant with European Standards EN 13763-1 to 25, and with Explosive Directive 2014/28/EU Certified by INERIS: EC Inspection Certificate of Type: 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 - Cl. 1.1B / UN 0456 - Cl. 1.4S (folded), UN 0456 - Cl. 1.4S (spooled)		

** These characteristics are expressed in accordance with the methodology adopted by the French body INERIS.

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



Davey Bickford SAS

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