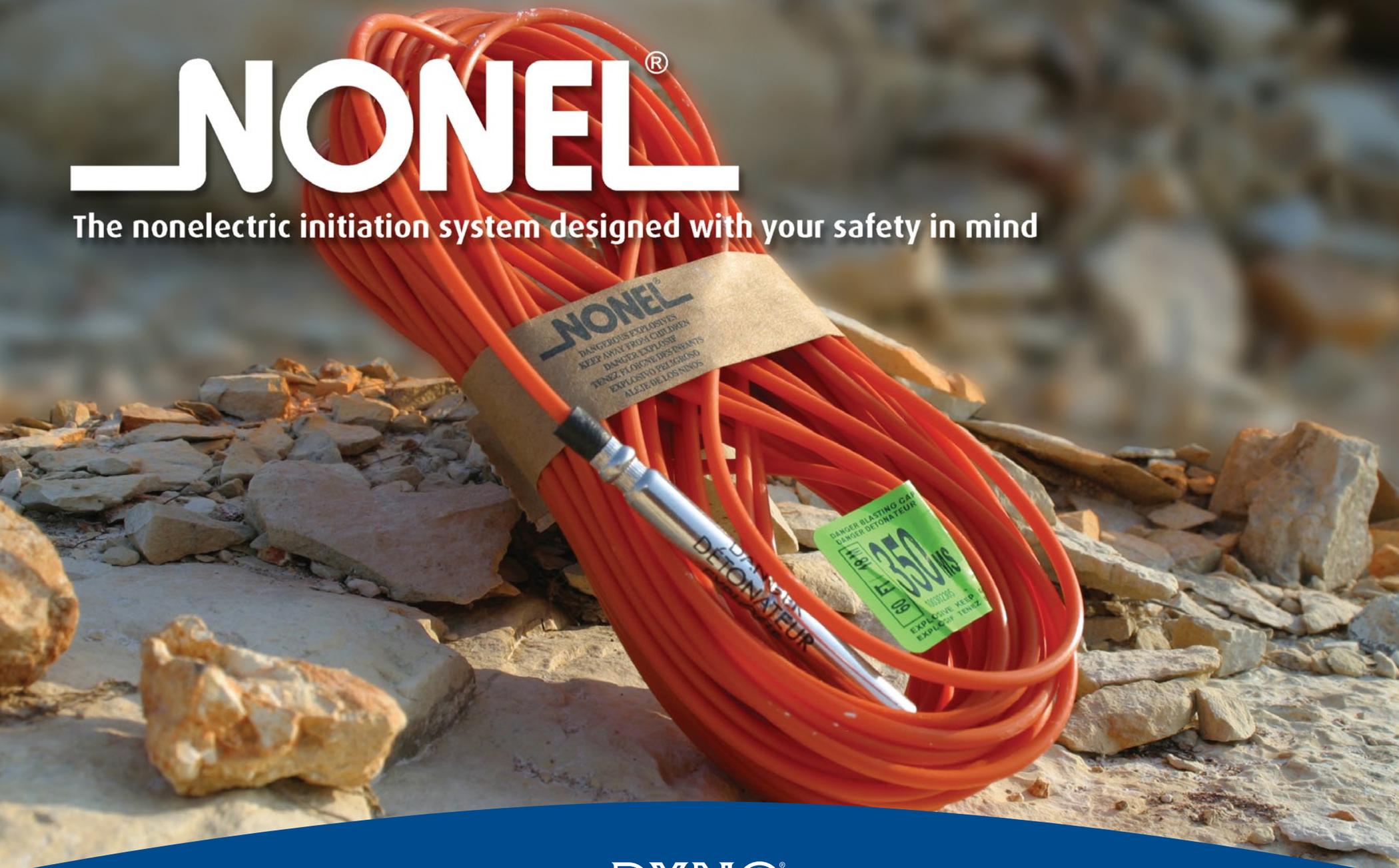


NONEL[®]

The nonelectric initiation system designed with your safety in mind



DYNO[®]
Dyno Nobel

Groundbreaking Performance[®]

The NONEL EZ DET® system is suited for construction, surface and underground blasting to eliminate the need to inventory various in-hole delays. It provides fast, simple hookup and allows an unlimited number of holes to be shot with independent hole initiation. Each unit consists of a precise in-hole delay detonator connected to a surface delay detonator housed in a plastic EZ Connector™ block by a length of orange shock tube.



NONEL EZTL® trunkline delay detonators feature precise millisecond delay timing and hardware suitable for use as trunklines in open pit and underground mining, as well as quarrying and construction. These detonators consist of a length of yellow shock tube attached to a low strength millisecond delay detonator housed in a plastic EZ Connector block on one end and sealed with a plastic J-hook attached to the other end.



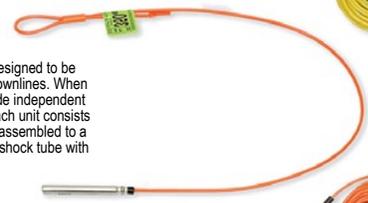
The NONEL EZ DRIFTER® system is used extensively in underground mining. EZ DRIFTER units consist of an out-of-hole detonator housed in a white plastic EZ Connector block on one end of a length of yellow shock tube with an in-hole detonator on the other end. Available in three standard delay combinations.



NONEL LP are in-hole detonators with a variety of precise long period delay timing and are extensively used in underground mining, tunneling, shaft sinking and special construction applications. These units consist of a long period delay detonator assembled to a length of sealed yellow shock tube with a blue plastic J-hook at the opposite end.



NONEL SL (short lead) detonators are designed to be used with low energy detonating cord downlines. When used in a slider configuration, they provide independent deck initiation from a single downline. Each unit consists of a precise millisecond delay detonator assembled to a 30 inch (76 cm) length of sealed orange shock tube with a looped end.



NONEL MS detonators are used in open pit and underground mining, as well as quarrying and construction. Each unit consists of a precise millisecond delay detonator assembled to a length of sealed orange shock tube with a white plastic J-hook at the opposite end.



NONEL TD (trunkline delay) detonators are intended to initiate detonating cord or shock tube downlines in various surface blasting applications. TD units consist of a precise surface delay detonator housed in a plastic bunch block assembled to a sealed length of yellow shock tube with a white plastic J-hook attached to the opposite end.



NONEL MS Connectors are used with detonating cord initiated blasts to provide millisecond delay timing between holes and rows. This bi-directional trunkline connector consists of an 18-inch (46 cm) length of shock tube with millisecond detonators of the same delay, inside color-coded connector blocks, on each end.



NONEL Starter is a spool of shock tube that is factory-assembled to a nonelectric detonator. Available in 200, 500 or 1,000 foot (61, 153, 305 meter) lengths. When initiated, the shock tube propagates a low energy signal to the detonator at a rate of 6,500 ft/second (2,000 m/sec).



NONEL Lead Line consists of a 2,500 foot (762 meter) spooled length of shock tube without a detonator.

THE ORIGINAL NONELECTRIC DETONATOR

NONEL is the initiation system that revolutionized the blasting industry in the 1970's. Incremental improvements during the subsequent years have resulted in the most reliable and trusted brand on the market with more than a billion units sold. When you shoot nonelectrics, insist on genuine NONEL.

SAFETY

The inherent advantage of the NONEL initiation system is its relative immunity to stray electrical current. In addition, the reliable performance of NONEL means fewer missed holes and a corresponding reduction of flyrock injuries and exposure to the hazards of reshooting.

IMPROVES PRODUCTIVITY

NONEL reliability can improve the productivity of your operation. With fewer misfires and less unshot powder in the muckpile, downtime will be reduced. More reliable detonation means there will be less oversize and better floors.

BUILT FOR RELIABILITY

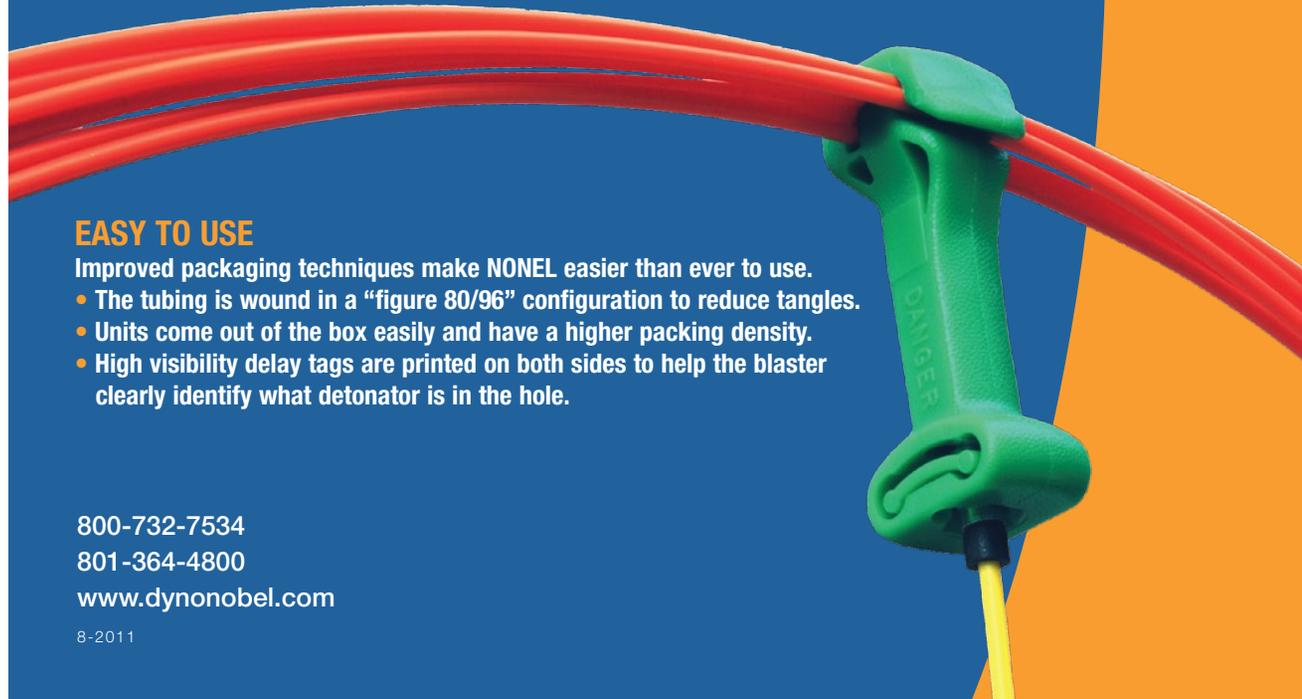
The NONEL design incorporates three unique features that make it the most reliable nonelectric system on the market today.

- The Delay Ignition Buffer controls signal pickup from the tubing which contributes to timing accuracy and prevents problems that can occur with depressurization.
- The Cushion Disk, another internal component, enhances reliability by removing residual explosive from the shell.
- The NONEL EZ Connector block effectively eliminates failed shots that can result from shrapnel cut-offs.

EASY TO USE

Improved packaging techniques make NONEL easier than ever to use.

- The tubing is wound in a "figure 80/96" configuration to reduce tangles.
- Units come out of the box easily and have a higher packing density.
- High visibility delay tags are printed on both sides to help the blaster clearly identify what detonator is in the hole.



NONEL[®]

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