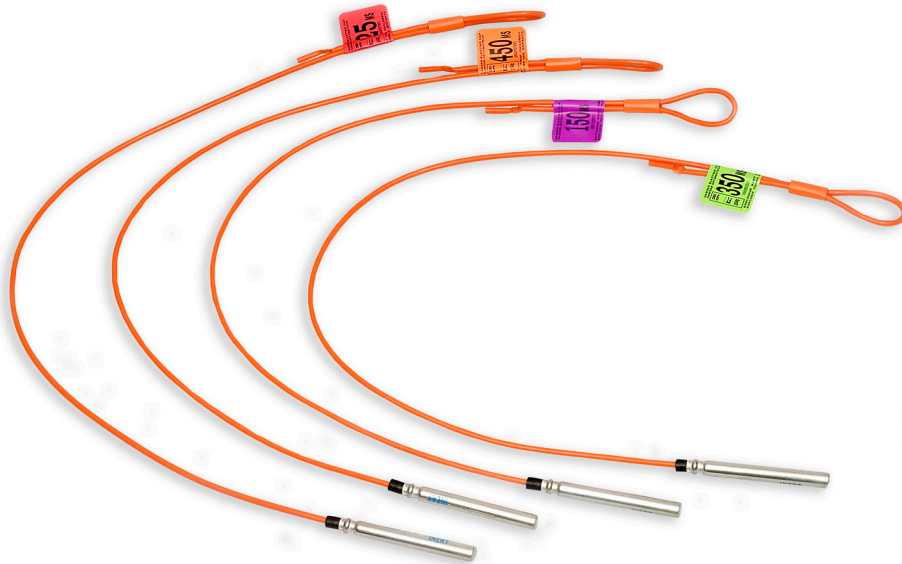


NONEL[®] SL

Technical Information



Nonelectric Short Lead Delay Detonator



Product Description

NONEL SL units consist of a 76 cm (30 in) length of orange shock tube sealed and looped at one end with a detonator at the other end. The loop facilitates easy attachment to the end of a detonating cord downline. Color-coded delay tags display the nominal firing time prominently.

NONEL SL detonators are primarily used for those surface and underground (non-coal) blasting applications that require multiple explosive decks in a single borehole. They are also used to provide in-hole delays in blasting applications where detonating cord is used as the primary initiation system. As such, NONEL SL units are designed to be used in conjunction with a low strength detonating cord downline.

Application Recommendations

For detailed application recommendations, **ALWAYS** request a copy of Dyno Nobel's *Product Manual: NONEL[®] and PRIMACORD[®]* from your Dyno Nobel representative.

Properties

MSDS #1122

Net Explosive Content per 100 units

U.S.	0.0570 kg
	0.1254 lbs
Canada	0.0885 kg
	0.1947 lbs

Delay Time (msec)	Delay Tag Color	Delay Time (msec)	Delay Tag Color	Delay Time (msec)	Delay Tag Color
25	Red	250	Red	475	White
50	Tan	275	White	500	Purple
75	Green	300	Tan	525	White
100	Blue	325	White	600	Gray
125	Orange	350	Green	700	Lt Blue
150	Purple	375	White	800	Red
175	Gray	400	Blue	900	Tan
200	Lt. Blue	425	White	1000	Green
225	White	450	Orange		

Hazardous Shipping Description

Detonator assemblies nonelectric,
1.4B UN 0361 PG II
1.1B UN 0360 PG II



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Application Recommendations (continued)

- **ALWAYS** design blasts so all (or as many as possible) surface delays are ignited before blast-induced ground movement begins. In situations where this is not possible, select NONEL SL detonator delay times with firing times that allow unignited surface delays to be as far as possible from the initiation point of the blast.
- **ALWAYS** use a 1.5 to 4 g/m (7.5 to 18 gr/ft) detonating cord downline with the NONEL SL unit when making a conventional primer assembly.
- **ALWAYS** use detonating cord with a coreload between 3 and 5 g/m (15 and 25 gr/ft) when using the NONEL SL and TROJAN[®] SPARTAN[®] Slider booster as a slider primer assembly. Lower or higher coreload detonating cords are not recommended. Lower coreload detonating cord may cause the detonator to misfire. Higher coreload detonating cords may circumvent the detonator delay or damage the booster prior to initiation by the detonator.
- **NEVER** cut or trim seals from the shock tube of the NONEL SL unit.

Transportation, Storage and Handling

- NONEL SL must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.
- For maximum shelf life (3 years), NONEL SL must be stored in a cool, dry, well ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product, see the booklet "Prevention of Accidents in the Use of Explosive Materials" packed inside each case and the Safety Library Publications of the Institute of Makers of Explosives.

Packaging

Quantity / Case	Hazard Class	Case Type
160	1.4B	B
250	1.1B	B

Available in US only.

- Case weight varies by delay; see case label for exact weight.

Case Dimensions

B 41 x 30 x 21 cm 16 x 12 x 8 ½ in

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