

NONEL® Lead Line

Nonelectric Shock Tube



Product Description

Nonelectric Shock Tube NONEL Lead Line is a small diameter, threelayer plastic tube coated on the innermost wall with a reactive explosive compound. When initiated, nonelectric shock tube propagates a low energy signal, similar to a dust explosion, at approximately 2000 m/sec (6,500 ft/sec) along the tube's length with minimal disturbance to the outside of the tube. The signal is transmitted from one nonelectric shock tube to another through field-assembled splices. NONEL Lead Line provides maximum flexibility to the blaster in choosing a position of safety from which to initiate nonelectric blast rounds in either underground or surface applications. NONEL Lead Line is the only NONEL product that can be cut and spliced into a NONEL detonator product to construct a custom length nonelectric starter assembly.



Technical Information

Properties

- Length rounded to nearest one-half meter.
- See case label for exact case weight.
- Nonel shock tube with Wire Lock Terminations or Ultrasonically Sealed Terminations

Length		Case	Spools / Case
m	ft		
150	492	L	3
300	984	L	3
500	1640	S	1
750	2460	S	1

Hazardous Shipping Description

Not regulated as an Explosive, UN0000
(Reference number EX2001110097A)

Case Dimensions

S - 700 x 350 x 200 mm
L - 400 x 400 x 250 mm

I-28-01-25-08
See Product Disclaimer on next page.



TENAGA KIMIA SDN BHD (26191 A)

Your Partner with
TOTAL BLASTING SOLUTION

NONEL[®] Lead Line

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Application Recommendations

ALWAYS splice NONEL Lead Line to NONEL EZTL nonelectric trunkline delay detonators, NONEL EZDET nonelectric blast initiation system, NONEL TD or NONEL starter detonators to make-up the nonelectric starter assembly when using NONEL Lead Line as the primary initiator for nonelectric blast rounds.

ALWAYS trim at least 3 m [10 ft] of tubing before inserting into a nonelectric shock tube starting device or whenever dirt and/or moisture may have compromised the open tube ends before making a splice connection.

ALWAYS replace the plastic tube closure over the open end of any NONEL Lead Line that remains on the spool and is intended to be used to make up another nonelectric starter assembly.

ALWAYS make the final hook-up of the nonelectric starter assembly to the blast round only after all equipment and nonessential personnel are clear of the blast area.

ALWAYS unspool NONEL Lead Line by hand if the starter assembly has been spliced to it and is attached to the blast round.

ALWAYS keep any NONEL Lead Line tube ends sealed and free from dirt and moisture since dirt or moisture in the shock tube may cause a misfire.

ALWAYS replace the NONEL Lead Line if it is damaged.

When making a nonelectric starter assembly using NONEL Lead Line, **ALWAYS** remove the plastic tube closure and save for later use. Splice two freshly-cut ends of nonelectric shock tube together (one from the NONEL Lead Line and the other from the nonelectric detonator) by inserting them into opposite ends of the plastic connector sleeve and pushing them toward one another until they are both at least ½ cm (¼ in) in the splice.

NEVER use NONEL Lead Line for in-hole use. NONEL Lead Line is for use outside the borehole only.

NEVER remove the plastic tube closure from the NONEL Lead Line shock tube until just before splicing.

NEVER attempt to knot different lengths of shock tube together. Shock tube will not initiate itself through knot connections. It must be spliced

NEVER attach the starter assembly to the blast round until after the Lead Line deployment is complete whenever NONEL Lead Line is to be unspooled by any method other than by hand

NEVER run over NONEL Lead Line with equipment. This may damage the shock tube and may cause a misfire.

Transportation, Storage and Handling

NONEL Lead Line must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.

For maximum shelf life (2 years), NONEL Lead Line 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.

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