

# NONEL® EZTL™

## Technical Information



### Description

NONEL nonelectric delay detonator EZTL units consist of a length of yellow shock tube, with a surface detonator (low strength) attached to one end and the other end sealed. The detonator is housed in a plastic EZ Connector block which facilitates easy connection to shock tube. An easy to read colour-coded J-hook is affixed near the sealed end. The J-Hook also displays the nominal firing time prominently.

EZTL detonators are designed for use with NONEL MS / NONEL MS HD units to provide effective and accurate surface timing between blast holes and/or rows of blast holes in surface and underground blasting designs and can reliably initiate up to six shock tube leads clipped into the EZ connector block. The block design makes surface tie-in simple.

### Properties

Delay Time (msec)	Connector Block Colour
9	Purple
17	Yellow
25	Red
42	White
67	Blue
109	Black
176	Orange

### Hazardous Shipping Description

Detonator assemblies, Non-electric, 1.1B , UN0 360



### Packaging

Length (m)	Units/case	Configuration
4.8	150	Figure 80
6	140	Figure 80
7.2	125	Figure 80
9	100	Figure 80
12	80	Figure 80
15	70	Figure 80
18	50	Figure 80
24+	30	Spool



### Application Recommendations

**NEVER** use NONEL EZTL detonators with detonating cord. The low strength surface detonator will not initiate detonating cord.

**ALWAYS** ensure the shock tube(s) are securely inserted, one at a time, into the plastic EZ connector. The head of the connector block should rise to accept the tube, and return to a closed position with an audible click.

**ALWAYS** ensure the individual shock tubes remain aligned side by side in the EZ connector channel and do not cross over one another during insertion.

**ALWAYS** protect the plastic EZ connector and all shock tube leads from impact or damage. Use care when placing blasting mats and cover material on top of the blasting circuit. The EZ connector contains a detonator and is subject to detonation caused by abuse such as impact. Shock tube which has been cut, ruptured or damaged may cause misfires.

**NEVER** attempt to disassemble the delay detonator from the EZ connector block or use the detonator without the connector.

**NEVER** place more than six shock tube leads into an EZ connector block. Misfires may result.

**NEVER** tie-in NONEL EZTL units until all holes have been primed, loaded, stemmed and the blast site has been cleared.

**NEVER** connect NONEL EZTL units with other manufacturers products as they can be incompatible and misfires can occur.

**Shelf Life** - For maximum shelf life (3 years), NONEL EZTL must be stored in a cool, dry, well ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old. Accuracy of delay detonators may deteriorate with age and stocks should be rotated regularly.

### Application Recommendations (continued)

**Using the Figure 80 Wind** - The Figure 80 wind may be reliably deployed by removal of the securing sleeve or by drawing either end from the sleeve, the remaining tube length will be retained in the sleeve.

**Connecting NONEL tubes into the EZ block** - Form each tube into a loop and pull it firmly into the NONEL EZ connector block until an audible 'click' is heard. This indicates you have correctly inserted the tube.

- Insert tubes one at a time to avoid crossovers in the block.
- After inserting all tubes slide the block along the tubes to ensure that all are fully engaged and any crossover is removed.
- DO NOT double wrap tubes into the block.
- Ensure that all tubes leave the block correctly and do not allow tubes to loop back near the block. Keep tubes neat between holes, taut but not tight.

**Disconnecting NONEL tubes from the EZ block** - If a tube has to be disconnected from a EZ block, follow these steps:

1. Hold the tube to be disconnected in a firm position at one side of the block.
2. Fold the tube back into the beak area towards the opposite side of the block.
3. Use your thumb to gently push back the beak.
4. Gently pull the tube under the beak and out of the block.

If there are several tubes connected in a block, we recommend that tubes are removed one by one, until the tube that has to be disconnected is removed.

Avoid excessive force, as this may damage tubes or the retaining mechanism in the block. Make sure that all the tubes, except the one to be disconnected, are reconnected to the block using the above steps.

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## Safe handling, transportation and storage

**First Aid** – You can find detailed first aid information on the relevant Dyno Nobel Safety Data Sheet. Refer to [www.dynonobel.com](http://www.dynonobel.com) for more information if required.

**Safety** - All explosives are classified as dangerous goods and can cause personal injury and damage to property if used incorrectly.

**Transportation and Storage** - All explosives must be handled, transported and stored in accordance with all relevant regulations. Stock should be rotated such that older product is used first.

**Product Disclaimer** The explosive products discussed in this document should only be handled by persons with the appropriate technical skills, training and licences. While Dyno Nobel has made every effort to ensure the information in this document is correct, every user is responsible for understanding the safe and correct use of the products. If you need specific technical advice or have any questions, you should contact your Dyno Nobel representative. This information is provided without any warranty, express or implied, regarding its correctness or accuracy and, to the maximum extent permitted by law, Dyno Nobel expressly disclaims any and all liability arising from the use of this document or the information contained herein. It is solely the responsibility of the user to make enquiries, obtain advice and determine the safe conditions for use of the products referred to herein and the user assumes liability for any loss, damage, expense or cost resulting from such use. ® DYNO, GROUNDBREAKING PERFORMANCE, NONEL and the Loop device are registered trademarks of the Dyno Nobel / Incitec Pivot Group. ™ EZTL is a trademark of the Dyno Nobel / Incitec Pivot Group. © Dyno Nobel Asia Pacific Pty Limited 2018. Reproduction without permission strictly prohibited.