



## Product Fact Sheet

# Exel™ T&D

### Non-electric, Short Delay Trunk Line Assembly

**Exel\*** T&D non-electric, short delay, trunk line assemblies provide out of hole delays in non-electric blast patterns. Used in conjunction with detonating cord downlines or in-hole shock tube detonators, **Exel** T&D assemblies provide flexibility in blast design and ease of use. They can be used in quarries, surface coal operations, open pit and underground mines, and construction projects to provide accurate surface timing.

### **Features**

#### **Exel T&D assemblies are:**

- Rugged, with abrasion resistant tubing;
- Accurately timed in 7 delays;
- Quick and simple to connect;
- Highly visible;
- In easy handle figure-8 coils.

### **Benefits**

#### **Exel T&D assemblies:**

- Eliminate the need for detonating cord lines;
- Provide excellent, flexible blast control;
- Allow easy connection, even with gloves; allow pre-blast changes to blast design;
- Facilitate rapid hook-up verification;
- Don't tangle - no waste.



# Exel T&D

## Non-electric, Short Delay Trunk Line Assembly

### Properties

Bunch Block	Color coded by surface delay time.
Exel* shock tube	Green, with color coded flag tag indicating delay time and length.
Detonating cord clip	White
Delay Times	
milliseconds	Bunch block color
9	green
17	yellow
25	red
42	white
65	white
100	black
200	orange

### Handling and Initiation

Avoid damage to the shock tube. Never pull so hard as to stretch or break shock tubing. A premature detonation may result.

Exel T&D assemblies are unidirectional. They can be initiated with:

- another Orica shock tube surface delay system;
- an electric detonator;
- a **Handistart\*** or a **Mantelec Electric DCD\*** electric initiating assembly.

To reduce potential shrapnel damage and subsequent misfires, bury the bunch blocks. The Exel T&D assembly is not designed to initiate shock tube and detonating cord in the same bunch block. Misfires can result.

Note: The bunch block of the Exel T&D assembly contains an explosive device that can be initiated by heat, impact, or friction.

### Packaging

Exel T&D assemblies are wound in figure-eight coils and packed in bundles of 5 in fiberboard cases.

Length		Quantity per case
meters	feet	
4	12	100
6	20	80
9	30	65
12	40	50
15	50	45
18	60	40

Other lengths may be available by special arrangement. Some length/delay combinations may not be available.

### Storage

For best results, store under moderate temperatures and dry conditions in a well ventilated, approved detonator storage magazine.

### Hazardous Materials Shipping Description

Detonator Assemblies, Non-electric  
Class and Division 1.1B  
UN 0360, PG II

EX # 9108204

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