

Exel™ B Connector



Description

Exel™ B Connector is a quick-connection unit that can initiate 5 to 20 Exel™ tubes at the same time. The standard Exel™ B Connector consists of a SL0 connector block (green) that contains a mini-detonator with no delay element. A loop of detonating cord, dimensioned to initiate a bunch of Exel™ tubes, is connected to the SL0 connector block.

Key Benefits

- Provides a high level of safety against initiation by static electricity, electric stray currents and RF transmissions at blast initiation point.
- Highly visible.
- Provides quick connection of multiple shock tubes, where simultaneous initiation of several charges close to each other is required for blasting applications on the surface and underground.
- Eliminates the risk of multiple shock tubes cut-off that might occur when initiating non-electric assemblies by means of detonating cord.

Technical Properties

Product	Exel™ B Connector
Signal tube	Pink Exel™
- Outer diameter (mm)	3.0
- Nominal tensile strength	300 N at +20°C
- Length (m)	4.8, 6.0
- Shock wave propagation (m/s)	2000 ±100
Detonator	
- Detonator PETN Charge (mg)	160
- Lead azide primary charge (mg)	60
- Shell material	Al
Detonating Cord loop	Waxed, textile yarn jacket
- Outer diameter (mm)	4.0-4.1
- Explosive core	PETN
- Core load (g/m)	4.5-5.5

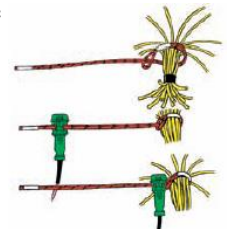
Recommendations for Use and Initiation

Exel™ B Connector are only intended for use freely hanging on the tunnel face (or from a wall, when used for applications on surface):



- Prepare a tight bunch of not less than 5 and no more than 20 Exel™ shock tubes by taping them together.

- Pass the bunch through the loop of detonating cord.
- Slid the SL connector block towards the bunch.
- Press the lid of SL connector to locking position.



- Several bunches of Exel™ shock tubes can be initiated at the same time. Put free ends of 2 or more Exel™ B Connector together and pull them away from the face (or the wall). No Exel™ B Connector or part of the detonating cord loop should be closer than 20 cm to an adjacent Exel™ tube.

Exel™ B Connector can be reliably initiated with:

- Exel™ Starter
- an approved blasting machine for shock tube initiation, e.g. Exel™ Start DS2 or Exel™ Start HN1
- electric (e.g. Dynadet™), non-electric (e.g. Exel™ MS) or electronic detonators (e.g. uni tronic™ 600 or i-kon™ II)

Packaging

Exel™ B Connector are packed into plastic or aluminium bags inside cardboard cases. All units within a case have the same tube length and delay.

Tube length (m)	Qty per bag (1.1B)	Qty per box (1.1B)
4.8	10	70
6.0	10	60

Other delays or tube lengths maybe available upon request. Please ask your local Orica representative for further information.

Storage and Handling

Product Classification

Authorised Name: Exel™ B Connector
Proper Shipping Name: Detonator assemblies, non-electric
UN No: 0360
Classification: 1.1B
EC Type Certificate: 0589.EXP.2783/18

Exel™ B Connector should be stored in a dry detonator magazine licensed for explosives.

Stacks of cases should be no more than 2 meters high.

Exel™ B Connector may be used in temperatures from -45 °C up to 50 °C. Exel™ B Connector detonators have a shelf life of 3 years.

Disposal

Disposal of explosives materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a local Orica representative for information on safe practices.

Safety

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

Exel™ B Connector consist of a mini-detonator in a surface block and a loop of detonating cord.

Exel™ B Connector contain sensitive explosives, which can initiate under intense impact, friction or heat. As with all explosives Exel™ B Connector must be handled and stored with care.

Training

This Technical Data Sheet is for information only. The Exel™ system including the Exel™ B Connector should only be used by personnel who have been properly trained to use this system.

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