

Exel™ Starter



Description

Exel™ Lead-in Line is a reel-off signal tube system for initiation of blasts. Exel™ Lead-in Line consists of a long length of Exel™ signal tube plus clear splices. The Exel™ signal tube is high strength, high abrasion resistant tubing which transmits the initiation signal. Used to extend the length of non-electric assemblies, Exel™ Lead-in Line allows non-electric blast initiation from a safe location. It can be used at surface or underground mines, at quarries or at construction projects.

Key Benefits

- Provides a high level of safety against initiation by static electricity, electric stray currents and RF transmissions at blast initiation point.
- Reduce blasting noise.
- Provide positive blast initiation control.
- Highly visible.
- Easy to handle and deploy - don't tangle.

Technical Properties

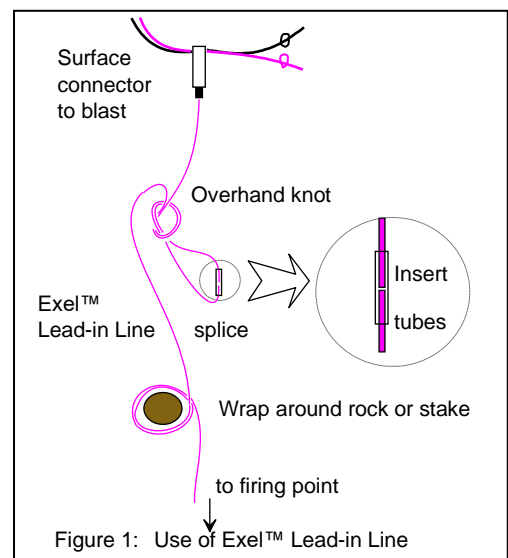
Product	Exel™ Lead-in Line
Shock tube	Exel™ 3L or 3L XU (pink)
Outer diameter (mm)	3.0 ±0.2
Nominal tensile strength (min)	300 N at +20°C
Shock wave propagation (m/s)	2000 ±100
Length on spool (m)	750 or 1500
Splicing sleeve	
- Outer Diameter (mm)	6.0
- Inner Diameter (mm)	2.8

Handling and Initiation

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

Exel™ Lead-in Line is designed to be spliced into non-electric assemblies:

- Exel™ Lead-in Line should not be used in extremely wet conditions where the maintenance of dry splices cannot be guaranteed.
- Exel™ shock tube should always be cut with a sharp, single bladed cutter or knife.
- Cuts should be made clean and at right angles taking care not to crush or collapse the cut ends.
- Always make cuts and splices under clean, dry conditions and always cap open tube ends to limit the exposure to moisture. Any freshly exposed open tube ends which are not to be capped should be immediately inserted into a splice or starter. The ingress of moisture or dirt may cause firing failure.
- Push the spliced ends firmly into the splicing sleeve so they butt together in the centre.
- Lay out the Exel™ Lead-in Line tube from the initiation point to a safe blast firing point. Do not place any spliced joints under tension during deployment. A simple overhand knot (see figure 1) is recommended to keep tension off the splice. Additionally, wrap the signal tube several times around a rock or stake to anchor it whilst deploying. Appropriate special precautions must be taken under wet conditions as Exel™ Lead-in Line spliced joints cannot be guaranteed as waterproof even when taped.



- At the safe blast firing point, cut the Exel™ Lead-in Line from the reel and connect to initiating device.

Exel™ Lead-in Line can be reliably initiated with:

- Exel™ Starter
- an approved blasting machines for shock tube initiation, e.g. Exel™ Start DS2 or Exel™ Start HN1
- a full strength detonator (REF. DET. #3, or higher).

Packaging

Exel™ Lead-in Line is supplied on spools which hold 750 m or 1500 m of tubing. A standard cardboard outer case contains 1 or 2 of these spools and a short piece of clear plastic tube for splicing.

750 m (2 spools)

Packaging dimension: 285 x 285 x 375 mm

Gross weight: 10.0 kg

1500 m (1 spool)

Packaging dimension: 285 x 285 x 375 mm

Gross weight: 9.6 kg

Storage and Handling

Product Classification

Authorised Name: Exel™ Lead-in Line

EC Type Certificate: 0589.EXP.2783/18

Exel™ Lead-in Line as produced, packaged and shipped from manufacturer, is not classified as dangerous goods and may thus be transported as general cargo.

Exel™ Lead-in Line should be stored in a dry, well-ventilated magazine with the ends of the tube specially sealed or capped to prevent moisture ingress.

Exel™ Lead-in Line has a maximum shelf life of 2 years but should be used within 3 months after tube sealing is broken.

As Exel™ Lead-in Line is designed as a reel off, extendable product, unfired remnant product which cannot be used, should be disposed of by unreeling from the spool and by appropriate initiating. Firing of Exel™ Lead-in Line on the spool may result in a fire hazard.

Disposal

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

Training

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

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