

# Cordtex™ 5P Detonating Cord



## Description

*Cordtex™ 5P* is a strong, flexible detonating cord with a nominal core charge of 5 g/m PETN. *Cordtex™ 5P* consists of a continuous core of PETN powder encased by high strength textiles. This is covered by a seamless green plastic jacket. It is designed to maintain stability under all but the most demanding conditions.

## Safety

*Cordtex™ 5P* contains explosive which is relatively insensitive to accidental initiation by shock, friction or mechanical impact under normal conditions of use.

*Cordtex™ 5P* can detonate if subjected to extremely high temperatures, but remains stable and safe to use below 80°C. For temperatures between 70°C and 80°C, exposure time should not exceed 24 hours.

*Cordtex™ 5P* is supplied in Class 1.1D packaging and has UN Number 0065.

## Application

*Cordtex™ 5P* is suited for use as a surface trunkline, as it will reliably initiate itself through suitable knots and is compatible with *Exel™* Millisecond Connectors (MSCs) and *Exel™* non-electric detonators using appropriate J-hook connections.

*Cordtex™ 5P* downlines will reliably initiate *Pentex™* *PowerPlus™* boosters. It cannot be used with most other types of booster. Refer to the relevant Technical Data Sheet for application details.

## Technical Properties

Nominal Coreload:	5 g/m
Colour:	Green
Nominal Velocity of Detonation:	6.5 to 7.0 km/s
Nominal Diameter:	3.7 mm (Average)

*Cordtex™ 5P* has excellent resistance to penetration from water and oil. It has good flexibility and knot holding at normal ambient temperatures.

## Recommendations For Use

*Cordtex™ 5P* should only be cut using a single bladed cutter, or a sharp knife on a non-ferrous block.

*Cordtex™ 5P* can be reliably initiated by an *Exel™* Lead-In-Line, *Exel™* Trunkline Delay or 8\* Strength Electric Detonator. Detonators should be firmly attached to the cord, with the base at least 150mm from a dry cut end and pointing in the desired direction of propagation. When using electric detonators, two detonators are recommended for reliability.

*Cordtex™ 5P* can be reliably initiated by detonating cords of 5g/m or greater core charge when approved connections are used. For extending surface trunklines, cord should be tied together with a "reef" knot (Figure 1). The knot should be 150mm from each cut end and pulled tight, with the free ends taped back along the cord to ensure positive contact.

For attaching downlines and branchlines to a surface trunkline, connections should be made using an approved knot (Figure 1).

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All connections should be tight and made at right angles, to minimise the chance of "approach"-type cutoff failures. *Cordtex™ 5P* surface trunklines should be laid out with no loops, kinks, tight bends or excessive slack. A closed loop of cord is recommended to provide insurance against poor connections. It should never be pulled off the reel over an end flange, as this can cause kinks.

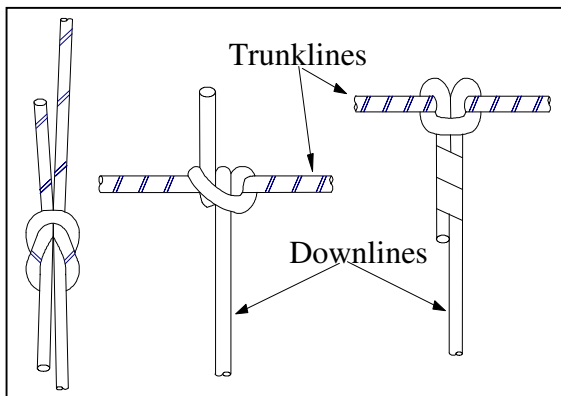


Figure 1: Approved knots, from left to right: Reef knot, Double wrap clove hitch Double half hitch.

Dowlines should be kept taut to prevent the formation of kinks or loops, which could lead to a misfire. Dowlines must be continuous lengths of cord and should never incorporate knots, lap joins or delay connectors inside a blasthole.

## Packaging

*Cordtex™ 5P* detonating cord is supplied on chipboard spools which hold 500 metres of cord. A standard cardboard outer case contains 2 of these spools, measures 0.50 x 0.25 x 0.25 m and weighs approximately 15kg. The weight of contained explosive material is 5.0 kg per 1,000m.

## Storage and Handling

*Cordtex™ 5P* should be in a cool, dry, well-ventilated magazine licensed for Class 1.1D explosives.

*Cordtex™ 5P* has a maximum shelf life of 5 years when stored correctly

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