

# Twin Twist Connecting Wire



## Description

Twin twist connecting wire comprises two single strands of solid copper wire, coated with PVC. The wires, one red and one green, are twisted around each other for the entire spool length.

## Safety

Twin twist connecting wire is made from solid copper core to resist flexural breakages. Each wire is individually insulated to provide the maximum combined insulation barrier between the conductors. The PVC overlay also provides a tough, waterproof, protective coating.

## Application

Twin twist connecting wire is suitable for extending detonator leads down blastholes, away from faces, or otherwise connecting lead wires to the firing line. It is not recommended for use as a main firing line as the total circuit resistance may reduce the firing current to an unacceptably low level.

## Technical Properties

Conductor:	2 x 0.61mm diameter Plain Copper Wire
Insulation:	PVC
Colour:	Red & Green
Amp rating:	1.8
Insulation thickness:	0.40mm
Resistance:	64 milliohms/metre/core
Nominal O.D:	2.8mm

## Recommendations For Use

Twin twist connecting wire can be spliced to other wires in an electric blasting circuit by commercial electrical connectors, or by removing the insulation and twisting the wires together. When twisting wires together, ensure there are sufficient twists so that the wire splice does not relax and reduce the intimate contact between conductors. Care should also be taken to ensure that the conducting paths remain well insulated from one another. When cutting and stripping wire do not nick the wire, as this may cause a break at any time. For minimising the associated risk of handling electric detonators in the presence of electrostatic or radio fields, the following points should be considered:

- Maintain the components of the firing circuit in a short circuited configuration at all times except when testing or connecting parts together.
- A detonator, its lead wire, or attached connecting wire should not be allowed to come into contact with any radio aerial or feeder line at any time.
- For use in a blasthole, the wire should be unwound to a minimum extent for preparing the charge and unwound further only when the firing circuit is to be connected.
- Only wire in good condition should be used for firing. All bare wires in the shot-firing circuit should be kept insulated from the ground.

Wire used in firing circuits should be tested for continuity and correct resistance before use. With a new 500m reel, join the wires at one end of the cable together. Connect the wires at the other end to the contacts of a circuit tester. The measured resistance should be close to 64 Ohms.

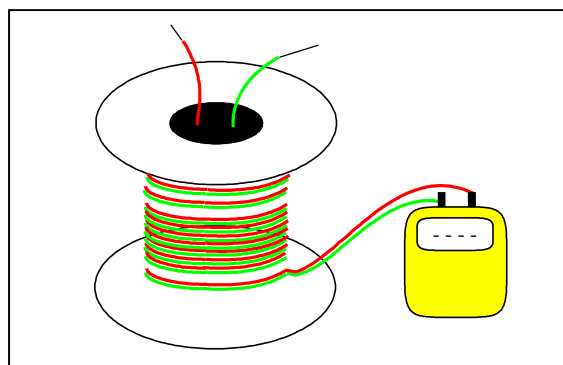


Figure 1. Testing twin twist cable for continuity and correct resistance.

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With the ends of the wire separated the resistance reading should be infinity, indicating that there is no short circuit in the cable.

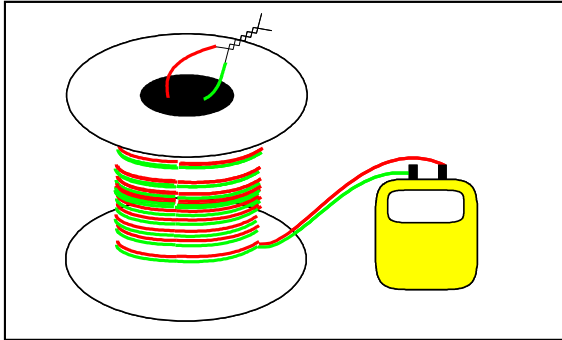


Figure 2. Testing twin twist cable for a short circuit.

## Packaging

Twin twist connecting wire is packaged on 500m reels. A 500m reel weighs approximately 5kg.

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