

## CAT & Genny - did you know?

- cable locators don't find cables... they detect magnetic fields
- a live cable with no load produces no magnetic field
- if you repeat the power and radio checks during excavation, you may detect a signal that was too weak to be detected at the surface
- to receive the maximum signal from a cable, the blade should be directly over the line of the cable or pipe, and perpendicular to it
- you can locate the incoming supply to a building by connecting the Genny's plug adaptor to a live mains socket
- if you search in both power and radio modes you will have the best chance of detecting a buried line, as radio signals induce higher frequency signals
- earth return (the return of a Genny signal by a suitably earthed metal) is not necessary if you use a cable extension reel to provide a double ended connection (see diagram below). This option produces much better results
- power transmissions induce stray currents into the ground and into any buried lines – a strong power signal is not necessarily a cable
- when using the signal clamp there must be an adequate length of line each side to give signal coupling via the ground
- when there is no access for direct connection or clamping you can apply the Genny signal by induction, but always use the receiver at least ten paces away from the transmitter to avoid picking up airborne signals
- if you are tracing a non-metallic line with a sonde, the true position of the line is given by a peak signal between two nulls, when the locator blade is in line with the sonde

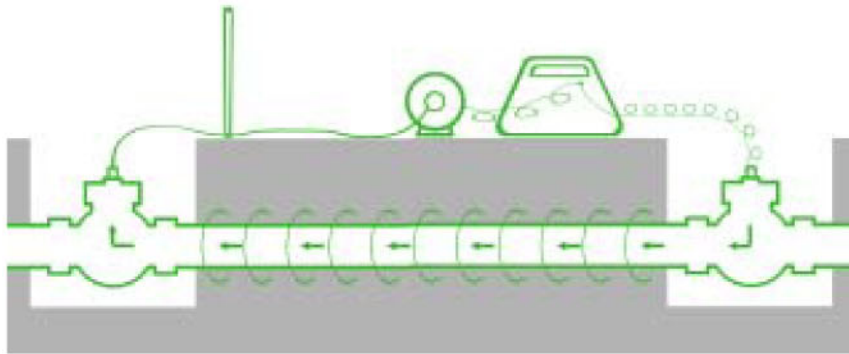


Fig 1. Double ended connection



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