



SP ENERGY NETWORKS

Case Study: Example of SP Energy Networks cables



The above image demonstrates a selection of SP Energy Networks underground cables.

- red cable is a **Coral 11,000 volt cable**
- the middle of the image highlights **wire armoured** and **tape armoured cables** and also a **paper insulated lead covered cable (PILC)**
- the bottom cable is a **plain lead covered cable**.

Hand excavate around SP Energy Networks cables.

All cables to be treated as live at all times.

When excavations are taking place around electricity cables **adherence to HSG47** is recommended along with a permit to excavate system.

All Cable Record enquiries should be addressed to:

SP Energy Networks (North)

Data Management
(Correspondence)
55 Fullerton Drive
Cambuslang
Glasgow G32 8FD

t: 0141 567 4155 or 0141 567 4455

e: Requestforplansscotland
@scottishpower.com

SP Energy Networks (South)

Data Management
(Correspondence)
North Cheshire Trading Estate
Preston Way
Preston
Birkenhead CH43 3ET

t: 0151 609 2373

e: Requestforplansmanweb
@manweb.co.uk

All Cable Deviation Requests /Service Alterations enquiries should be addressed to:

SP Energy Networks (North)

Customer Connections
55 Fullerton Drive
Cambuslang
Glasgow G32 8FA

t: 0141 614 9997

SP Energy Networks (South)

Customer Connections
PO Box 290
Lister Drive
Liverpool L13 7HJ

t: 0151 221 2110

Emergency contact

In an emergency, or if there is any damage to SP Energy Networks cables or plant, call the appropriate number:

SP Energy Networks North

*Central & Southern
Scotland*

0845 272 7999

SP Energy Networks South

*Cheshire,
Merseyside
& North Wales*

0845 272 2424





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Case Study:

33kV cable joint preparation and completed cold shrink joint



The top image demonstrates a fault on a 33KV cable in the process of being prepared for jointing.

The lower image highlights the completed cold shrink joint on the 33kV cable.

Notice the repair on the cable has three single core cables, rather than one large cable, repairs to 33kV cables will continue to be replaced with single core cables, normally laid in trefoil formation.

33kV single core cables are installed in trefoil formation

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Case Study: High Voltage Polymeric cable joint



The above image highlights a high voltage cable joint on a Polymeric to Polymeric electrical cable (red cable), operatives undertaking excavations may not have come across this type of joint before, the joint is a sleeve made up of a composition of plastic and rubber (XLPE) and is fit for purpose. Using cables as a step or hand hold to enter or exit excavations is not recommended.

Prior to any excavations taking place cable records should always be consulted.

All SP Energy Networks cable record enquiries are to be directed to the relevant North or South Data Management team.

Always assume cables are live.

Access and egress routes at excavations should be clearly defined.

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55 Fullerton Drive
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Glasgow G32 8FD

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e: Requestforplansscotland
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SP Energy Networks (South)

Data Management
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North Cheshire Trading Estate
Prenton Way
Prenton
Birkenhead CH43 3ET

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SP Energy Networks (South)

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0845 272 7999

SP Energy Networks South

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& North Wales*

0845 272 2424



Case Study: Low Voltage Lead Covered Cables And Joints



The above image demonstrates a low voltage lead covered cable joint.

This type of joint is an older type cable joint on the underground electrical network, excavating around this type of apparatus requires more caution as the lead covered cables and joints are not as robust as modern day underground electrical plant. Moving or standing on lead covered cables/joints will more than likely result in the cable being damaged. To prevent inadvertent contact with lead covered cables through excavations taking place, a risk assessment and a safe system of work should be implemented to ensure operatives are aware of all the possible risks when operating around this type of electrical network, also taking into account safe access and egress at the locus of the excavation.

Prior to excavations taking place, take time to assess the type and construction of all underground apparatus to be exposed.

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