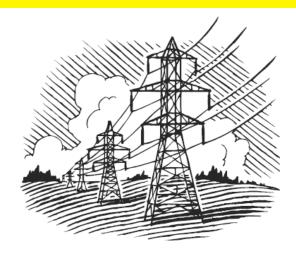
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"The overhead power glove box guide"



"Your guide to staying safe when working in the vicinity of overhead power"



Issue 2.9.Revised April 2018 Author: Alan Brushwood, Legal, Risk & Equivalence

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General safety when working with overhead power

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- FAQ's when working on Joint user poles
- How close can I get to LOW voltage on a JUP from a ladder or MEWP
- BT wire/cable and high voltage power route separation distances



LOW voltage

- How do I recognise LOW voltage?
- What are the separation distances between LOW voltage and BT cables?



HIGH Voltage.

- How do I recognise HIGH voltage?
- Safety standards when working within the vicinity of HIGH voltage.

Section 5

Safe working around power for Mobile Elevating Work Platforms (MEWPs) or Pole Erection Units (PEUs)

- MEWP / PEU working with LV
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What should I do in an emergency?

Energy company emergency contact numbers

A general guide to keeping safe when working with or near OH power

This guide is for engineers working in the external overhead network who encounter overhead power. **It's** designed to give you the information you need to keep yourself safe when working in the vicinity of overhead electric power or on Joint User Poles (JUPs). Important: This guide does not replace formal training.

First rule when working with overhead power is to fully understand what voltage you are dealing with.

DON'T GUESS! It could cost you your life.

If you aren't sure DO NOT START WORK. Contact someone, either your FMA/Coach/Manager, safety services via the HR service desk (0800 181 4321) or refer to ISIS documents listed in this guide.

Joint user poles refers to both BT and Distribution Network Operators (DNO) owned poles. The voltage on these pole should be LOW VOLTAGE ONLY.

DO NOT attempt to access any cables or BT line plant **that's** on a pole which carries **HIGH VOLTAGE** until **you've** permission to do so from the DNO and have contacted your manager. (Section 4 which details the safe working distances from HV)

If you find any situation you consider unsafe or breaches current guidance concerning BT line plant and its proximity to overhead power you must raise an A1024 either online or via the mobile app.

Under the category 389 Safety: BT line plant in conflict or contact with EL choose the relevant defect code:

536 – Contact with power LV 537 – Proximity to power LV

538 – Contact with power HV 539 – Proximity to power HV

540 - Dropwires, cables or blocks directly on HV poles (added July 17)

The REMEDY CODE is 309 – Survey required.

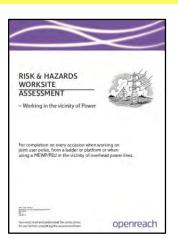


A general guide to keeping safe when working with or near OH power

Remember 1:

You must complete the RISK ASSESSMENT form every time when working on Joint User Poles and LV, EITHER from a ladder or MEWP.

ALSO when using a MEWP/ PEU within 25m of HV



Remember 2:

A Ladder 7A (blue ladder) MUST be used on ALL Joint User Poles and occasions where there is a risk of contact with overhead power.

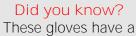
When working from a blue ladder you should always use your harness AND Lanyard



Remember 3:

Wherever there is a risk, however slight, of any contact between BT plant and power conductors, you **MUST** wear gloves IR.

They **must** also be worn if you are using ropes or sash lines which may come into contact with power lines.



set shelf life. They should be on your EYP AND checked visually for any signs of cracking and for any holes/splits by inflating them before use.



Blue ladder myth buster: It's a myth these can't be carried on top of vehicle as they might degrade in sunlight. But prolonged road vibration will cause damage and reduce the lifespan of the ladder, so minimise this risk by checking they are tightly secured and always check them thoroughly before you use them.



How/when do I fill in the Risk and Hazards worksite assessment form?



You need to fill in one of these BEFORE you start work when working on a JUP or within 25m of HV. Go down the form and tick any control measures that you have checked for or put in place. If you need to add other information, put your notes in the lower box.

This form helps you to think about what hazards exist on your site and record what **you've considered** and put in place to keep you safe.

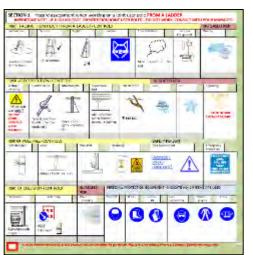
ESS - FALING PURK HEIGHT FIXED SLADER - CENTRALS

SINGLE STREET S

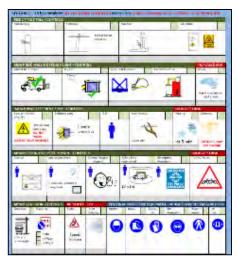
(I/C 061461)

- SECTION 1 To be completed before work commences on a joint user pole with LV from an insulated ladder
- SECTION 2 To be completed BY THE MEWP OPERATOR before work commences on a joint user pole with LV from a MEWP
- SECTION 3 To be completed **BY THE MEWP/PEU OPERATOR** before work commences for ALL MEWP /PEU work within 25m of HV Completed forms must be retained for a minimum of 6 months and be available for inspection

Section 1



Section 2



Section 3

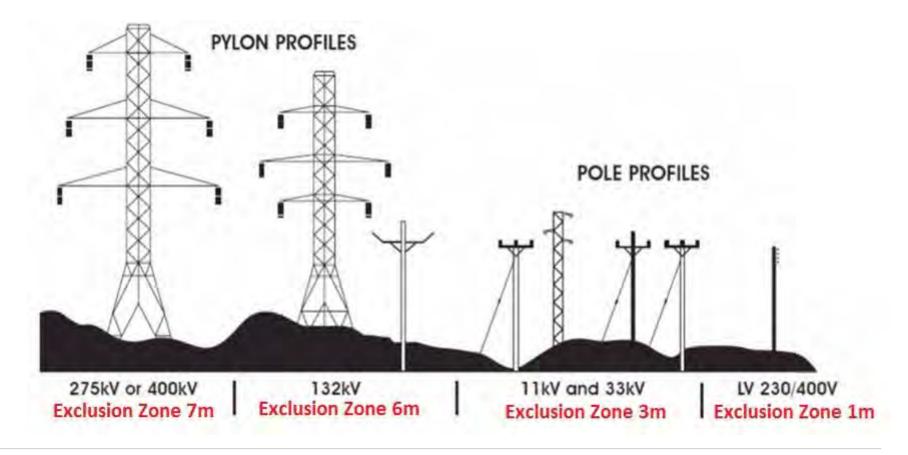


Make sure you have latest version - the ones with the blue & green background



How do I know what the voltage is on this pole or pylon?

The picture below shows typical types of overhead lines and provides a guide to help you assess the line voltage of lines on steel pylons or wooden poles



How do I measure wire heights/separation distances on Low & High voltage?

Unless you know with absolute certainty that the power line is Low voltage, use an ultrasonic device

LOW voltage (less than 1,000 volts /1kV)

Rods Telescopic 7m (item code 008874) or Rods Clearance Complete, (item code 116121) can be used to get a direct height measurement of the conductors. To determine the clearance between a power line conductor and a BT wire or cable, measure the height above ground of each cable separately and take the difference.

Important: NEVER measure LV overhead power lines by this method when it is raining.



Remember: always to use Gloves IR –They'll provide protection against contact with LV conductors.

(They **aren't** designed to protect against HV)

EPT/PPS/B046 Sect. 8



Looks similar to this

HIGH voltage (greater than 1,000 volts /1kV)

DON'T attempt to measure HIGH voltage with any type of rod or measuring tape.

The ONLY safe method is with an Ultrasonic measuring instrument (available by local purchase)

How do I keep safe when working on a Joint User pole (JUP)?

- ✓ Before you work on a JUP you must have had the relevant instruction, have the skill recorded and have been checked by your supervisor within the last 2 yrs
- ✓ Always have a second person present this applies to both electricity company and BT owned poles (this needs to be an Openreach person and not a member of public or the property owner)
- ✓ Always use a ladder 7A (blue ladder)
- ✓ Think about the hazards Use the RISK & HAZARD WORKSITE ASSESSMENT sheet to identify the hazards and record your control measures (Item code 061461)
- ✓ When your role is to act as a Ground Support Person (GSP), your responsibilities are:
 - ✓ To look out for hazards from the ground and warn the engineer working on the JUP or in the Mobile Elevating Work Platform (MEWP) of any danger.
 - ✓ To bring the MEWP to a low level in the event of an emergency.
 - ✓ To complete the handshake sign off.

You do not leave site, work on another task or do any part of the active task.



Did you know: That all new fixings to E/L poles require a licence before attachments are made and there is no exception to this rule.

Important: Joint user poles refers to both BT and DNO owned poles. The voltage on these pole should be LOW VOLTAGE ONLY.

NEVER attempt to access any BT cables or line plant that is on a pole which carries HIGH VOLTAGE until **you've** permission to do so from the DNO and have contacted your manager. (Section 4 covers safe working distances from HV)

How do I keep safe when working on a Joint User Pole - Pole labels

Part of your safety assessment when working on joint user poles is always inspecting the pole before you decide to work on it. Check you know your markings and labels. Here are a couple of things worth knowing:

There should be a 3m mark - Poles dated prior to 1958 cannot have their depth confirmed and must be treated as **Defective for "Depth". Poles dated 1958 onwards have the 3 metre mark at the same point as BT supplied poles.** If **there's no 3m mark, YOU** CANNOT work on it from a ladder. You can access it using a platform or scaffold.

Other labels – a quick guide:

- J Standard marking indicating there is a joint use agreement. It might also have a number by it, this number indicates the maximum number of dropwires permitted on this pole.
- C If you see this it indicates that cables larger than dropwires are allowed.
- Indicates that work on this pole is limited YOU CANNOT work on it from a ladder
- Some (but not all) suppliers use "S" to indicate "suspect". You should not attempt to access this pole until you have checked with the supplier.
- DNOs normally use a red coloured 'D' label similar to BT's but if you are in any doubt treat the pole as 'D' and report the problem to your manager.

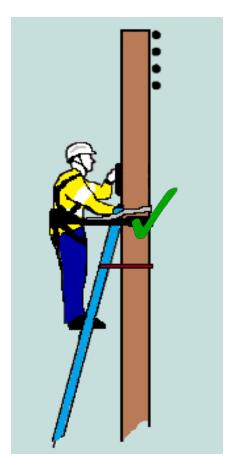


Important: Not all suppliers use all of these labels. To keep safe always test the pole before you work on it and if in doubt, contact the supplier and find out more information on the markings.

EPT/OHP/C032 - Working on Joint User Poles

Joint User poles - What's the safe working position when working from a ladder?

Your ladder position is really important and will improve your lateral stability if you get it right



As a rule of thumb – See if you can get a hold of a rung from your working position – if you can, you've got it right

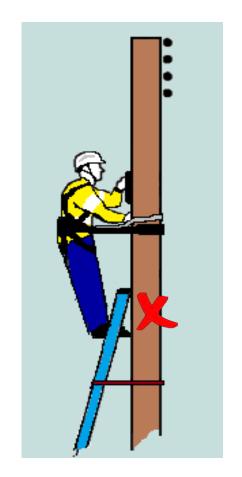




Why? – because as **you're working** from a ladder your feet are closer together than they would be if they were on pole steps, so **it's important** to have an additional fixed structure to hold onto should you require it.

Here are a few reminders on how to stay safe and reduce your risk when on a JUP

- ✓ Test /inspect the JUP pole before you start work
- ✓ Always use a insulated ladder
- ✓ Always use your belt and lanyard



How do I keep safe when working on a Joint User pole (JUP)?

Sometimes **you'll** come across joint user poles that have other wires/conductors coming down them. Always take time to study the position of these. Assume they are LIVE unless you can prove otherwise.



To keep safe NEVER put any part of your ladder 7A in a position where they may come to contact with these as you could cause a short circuit and power discharge.



If you are working on a JUP with power conductors that cross the road they must be checked and should not be below 5.8m



Be aware, foliage on JUPs can hide conductors AND conduct electricity. As part of your risk assessment you should get this removed so that you can determine if the JUP is safe to work on.

This can only be done by the DNO

Damage to a ladder 7a due to contact with power cables running down a JU pole.







How do I keep safe when working on overhead power or a JUP?

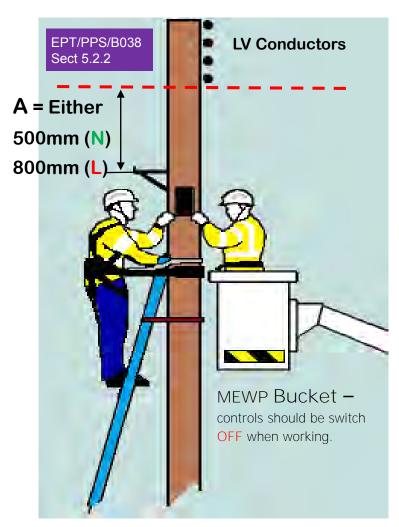
FAQs for overhead power and joint user poles.

- Q Can I /should I attach a A1024 or other label to a JUP?
- A No. However you can still report the defect on a A1024.
- Q Is there a minimum height for LV power cables that cross the road?
- A Yes. Whilst it is unlikely, there may be low electricity wires which also cross the carriageway. The minimum installation height for electricity wires is 5.8m. If it is suspected that electricity wires MAY be low, in the first instance, make a visual comparison with BT wires that have been checked.
- Q Can we use standard tools/equipment when working on a JUP?
- A Yes. However under NO circumstances can aluminium ladders be used. You should always use a LADDER 7A (Blue ladder)
- Q Can I climb a JUP in the hours of darkness using WITHOD?
- A No, for your safety JUP's must not be climbed during the hours of darkness, or if there is low ambient light or thunderstorms.
- Q Do I need to carry out my pre-climb checks on a JUP?
- A Yes always. You should refer to the risk assessment form for the hazards you may encounter (item code 061461) However you do not have to fix a pre-climb check label
- Q What should I do if I encounter powered non BT equipment on a pole? e.g. lighting, sound equipment, CCTV or low voltage domestic supply?
- A Contact your manager who will need to e-mail the National Notice Handling Centre @ nnhc@openreach.co.uk with the details. They'll contact the site owner and give notice for the equipment to be removed.

EPT/OHP/C032 - Working on Joint User Poles

Joint User poles -LOW VOLTAGE safe working distances from a ladder & MEWP

Question – How close can I work safely from a LV conductor on a joint user pole?



A – BT plant must be either 500mm from NEUTRAL* or 800mm from LIVE conductor.* The NEUTRAL wire can be identified by the common drop off to each property.

The separating distances shown also apply when accessing overhead plant from a bucket or ladder.

You must not work on any line plant positioned closer than these distances

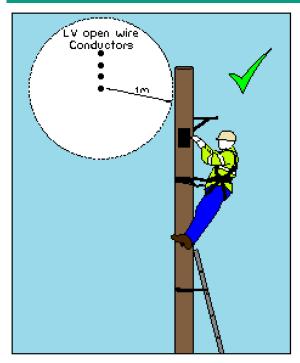
Keep your head and body below the lineplant at all times. (occasionally your hands may need to be a bit closer so you can carry out your work.)

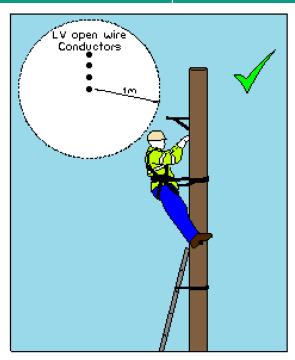
IMPORTANT NOTE - WHEN USING A MEWP When manoeuvring or positioning the MEWP bucket it must never be closer than 1m (in any plane) from any LLVE conductor/s

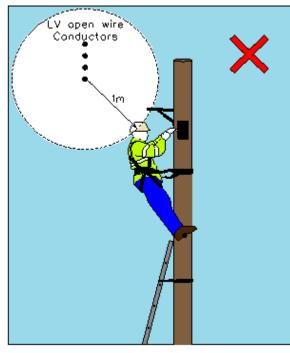
ALSO When you get the bucket to where you need to work, you MUST switch the bucket controls to OFF.

This stops you accidently getting too close to the power (if you inadvertently knock or move the controls vertically or horizontally)

Maintaining correct working clearance from "single wire" LV conductors in mid span







It is essential to maintain the minimum 1m clearance from open wire LV conductors, which are in mid-span, but passing close to a BT pole.

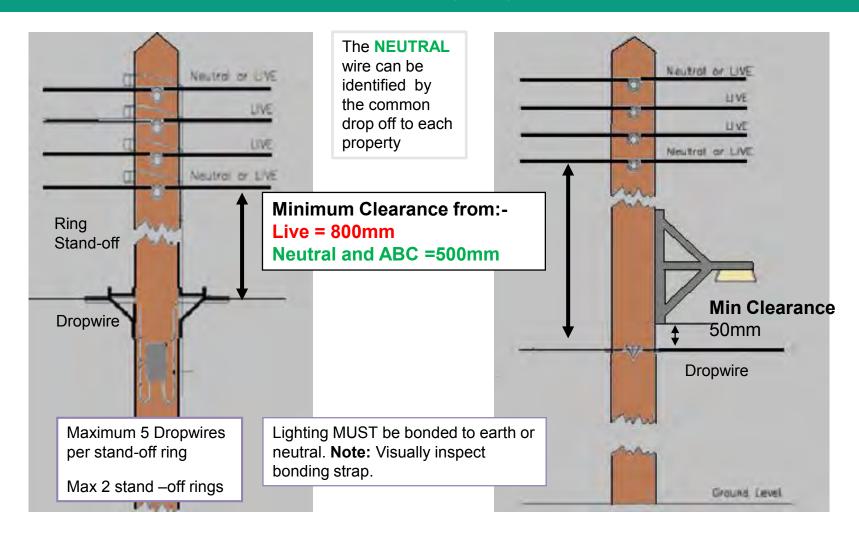
As shown in the pictures, this may determine which side of the pole can be accessed.

Always measure the 1m 'on the ground', do not use rods /rulers aloft to check the distance.

However you should know that...

The 1m rules **DOESN'T** apply to ABC & Concentric Neutral cables in mid span.

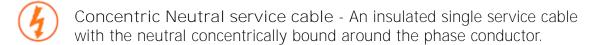
Joint User poles -LOW VOLTAGE and lighting cable separation distances



LOW VOLTAGE - How do I recognise LOW voltage? (Less than 1,000 volts /1kV)

Low voltage lines come in 3 types.









At some sites around the country, HIGH VOLTAGE ABC has been identified.

These SHOULD have labels to that effect.

ALWAYS check for signage on the pole before you start work.







How do I recognise LOW voltage? (LV - less than 1,000 volts /1kV)





LOW voltage (LV) is generally mounted VERTICALLY on Electricity poles and has a voltage of less than 1000v A/C and 1500v D/C.



It is equally common to see single wires bundled together in a single black sheathing known as ABC (Aerial Bundled Conductor).

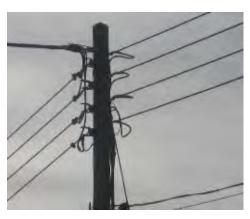


Generally LOW voltage is seen going from pole to pole with individual feeds to houses/buildings.



All joint user poles carrying LOW voltage should have a label attached displaying "DANGER OF DEATH".







Example of LOW voltage joint user pole sign "DANGER OF DEATH"

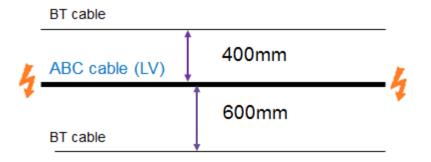


VOLTAGE - Non insulated power cables. What are the minimum overhead separation distances?

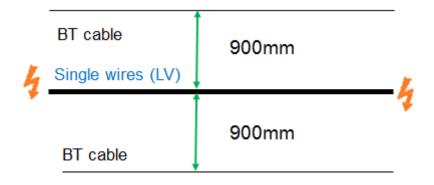
Question - Can I put a dropwire or aerial cable above or below LOW voltage?

Ans. Yes you can, so long as you maintain the correct separation distances from the LIVE and NEUTRAL conductors.

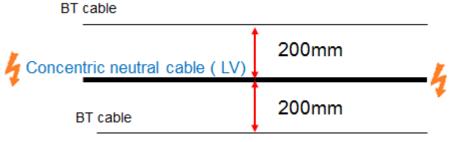
Where electricity and BT cables CROSS or run IN PARALLEL the minimum IN SPAN clearance is determined by the type of cable and whether the BT cable is run ABOVE or BELOW.



AN EXCEPTION TO THIS RULE - At crossing points which are close to the support points, (e.g. respective poles or house / building fixing points) where movement due to temperature is unlikely then the vertical clearance can be reduced to 400mm



EPT/PPS/B026 Sect 10.D1.4 Code of practice

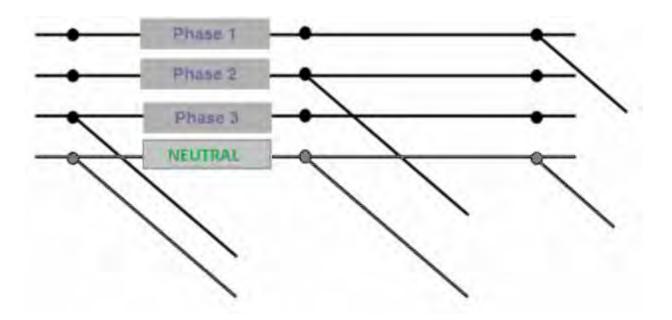




On voltage how do I recognise the LIVE and NEUTRAL conductors?

On a vertical stack like this, look for the conductor that has a common drop-off to each property on the power route — This is the NEUTRAL.

The LIVE will come individually from each of the phase wires.





NOTE: The NEUTRAL conductor can be on the TOP OR the BOTTOM of the stack.



Voltage – What are the separation distances on buildings?

Where BT cables and power lines are attached to the same buildings, then the minimum clearance between the points of attachment are as follows:-

| Cable type | Clearance from BT cables |
|-----------------------------------|--------------------------|
| Concentric neutral service cable | 200mm |
| ABC & Single wires service cables | 600mm |



Example of a concentric neutral service (a single cable) separation at attachment of 200mm

The clearance for the cables cleated in PARALLEL along the wall is 50mm.

If you have to bridge over an electric cable use a piece of Protector Cable Abrasion PCA (tree guard) over the BT cable with cleats 140mm apart and give 25mm clearance.



PCA comes in packs of 10 or 20 x 1m lengths and in five sizes for different cable diameters.

Dropwire / CAD55 PCA has item code of 048987



Where power attachments are present at a customers premises the use of blue ladders 7A is not mandatory, but you should consider the risk – the type, how close you are working to them, as well as the weather conditions as you may decide you need to use them.

HIGH Voltage – the dangers

Information on the effects of HIGH voltage - Accidents involving HIGH voltages can result in severe injuries and death. When an electric current passes through the body, it generates heat and can extensively damage internal tissues and organs as well as produce serious burns.

In some cases, the entry and exit wounds are so severe that a foot or hand may have to be amputated.

You don't even have to come in direct contact. If anything touches a HIGH voltage power line or if a power line falls to the ground, electricity will flow to the ground, energizing the tree or equipment and anything in contact with it. The surrounding ground may be extremely hazardous. The voltage gradually decreases from the point of contact until it reaches zero - for example at 60,000v this can be up to 10m (33ft) - or even greater depending on ground conditions.

Under some fault conditions it is even possible for the wooden pole to become live (known as leakage).

For this reason you should not work on HIGH voltage poles/ structures unless the power has been switched off.







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How do I recognise HIGH voltage? (greater than 1,000 volts /1kV)

Typically HIGH voltage can be identified by some of the following characteristics...

- Horizontal, triangular configuration or large vertical formation.
- Steel Towers/pylons
- Anti climb devices (these can also appear on LV)
- DANGER HIGH VOLTAGE notices.
- Large insulators /Glass dish type insulators
- Longer spans over 45 metres.



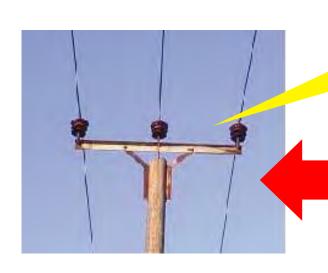
IF you are in ANY doubt as to the voltage you are dealing with:

Before you start work speak with your manager / supervisor / planner or local power distributor and arrange to get the voltage verified from the utility prints.

Don't guess....

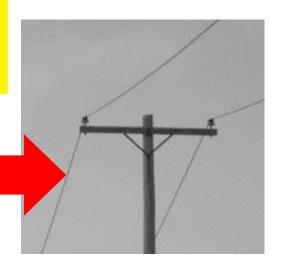


How do I recognise HIGH voltage? (greater than 1,000 volts /1kV)



11kV lines have two or three small shed insulators. 33kV lines have large three shed insulators.

Note: Not all HV routes have three wires, some may just have two.









Rule of thumb: 11kV insulator approx.150mm (6 inches)



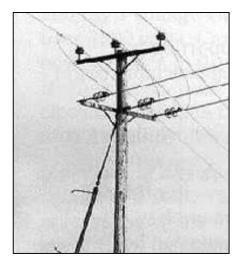
33kV insulator approx. 300mm (12 inches)

The 33kV insulator is generally much larger than the 11kV (colours may vary)

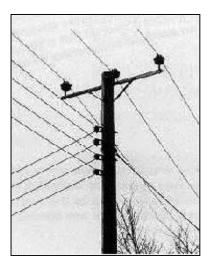
How do I recognise **HIGH** voltage? (greater than 1,000 volts /1kV)

BE AWARE

Some poles may have BOTH - **HIGH VOLTAGE** 11kV 3 phase **AND LOW VOLTAGE**If you find this, **ALWAYS** treat this as a **HIGH VOLTAGE** situation.



Tee-off pole, 3 phase 11kV
HIGH voltage line
NOTE – HV is now running
HORIZONTAL.



11kV **HIGH** voltage **AND LOW** voltage line.



33kV **HIGH** voltage AND **LOW** voltage line on the same pole



UNDER or OVER? - Safety standards when working with HIGH voltage

Question - Can I run dropwires or aerial cable under or over HV?

| | UNDER HV | OVER HV |
|--------------|------------|---------|
| 11kV | √ * | X |
| 33kV & above | X | X |

Insulators are required on aerial cable.

- You must NOT fly wires under/over a HIGH voltage railway line, even if the wires cross on a bridge.
- You cannot attach any wires or cables to poles carrying HIGH voltage
- If you are working within 25m of HIGH voltage you must use the safe sector method.

EPT/PPS/B046

Sect. 4.3 Crossing & proximities of BT lines & HV power lines

EPT/PPS/B026 Sect7.A2.6 4

Protection of Telecommunication Lines from Power Lines

EPT/PPS/B023 Sect.3

Electrified Railways



IF you're not sureDO NOT GUESS!

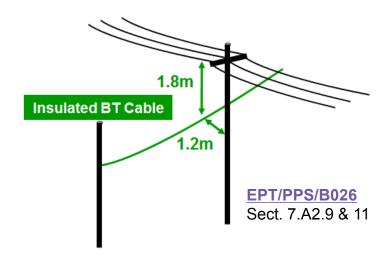
STOP WORK and find out the information.

How far should I stay away from HIGH voltage?

If you are working on poles, or accessing BT line plant from a ladder or scaffold close to HV, the minimum safe distances are shown in the information below. It is important to note that you should not take equipment or work in this zone: If you cannot achieve the minimum safe working distance from the HV you should contact your manager and the safety team before you start ANY work.

| HIGH VOLTAGE | MINIMUM safe working distance |
|--------------|---|
| 11kV & 33 kV | 3 metres |
| 132 kV | 6 metres |
| 275 & 400 kV | 7 metres |
| | RED ZONE MINIMUM SAFE DISTANCES FROM HV 11 & 33kV 3 METRES 132 kV 6 METRES 275 & 400kV 7 METRES RED ZONE MINIMUM SAFE DISTANCES FROM HV HV 12 METRES 275 & 400kV 7 METRES |

BT LINE PLANT. Where BT O/H wires and cables cross UNDER an HV route (11kV or below only) the minimum separation distance between them and the HIGH Voltage are:



IMPORTANT NOTE: You should NEVER attach wires or cables to HV poles. If you find, or need to work on, existing BT line plant on HV poles you should contact your manager AND the Openreach safety team who will advise on a safe system of work . See ISIS SFY/HSH/D043

How far should I stay away from HIGH voltage?

New ADSS Cables are now approved for use under High Voltage Power, up to and including 33kV - Subject to the following conditions:

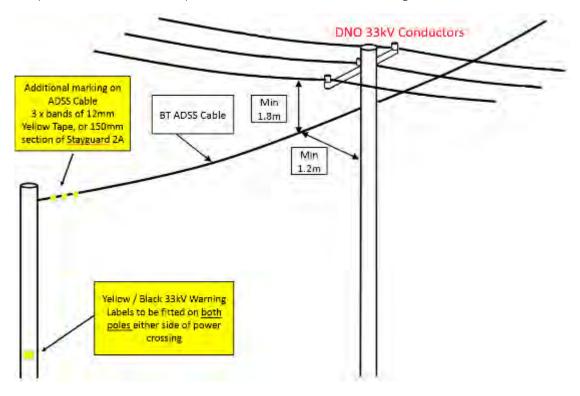
- ✓ ADSS Cables only are permitted under voltages >11kV No metallic cables!
- ✓ Min safe clearances must be met
- ✓ Yellow Warning Labels (i/c 093534) must be provided on the two poles either side of the crossing.

The ADSS cable should also be marked just beyond the Clamp position, using either a 150mm piece of Stay Guard 2A (Item Code 016321) or 3 bands of Tape Plastic Adhesive Yellow (Item Code 071298)

Joint / CBT Positions may not be located any closer than the second pole back, either side of the crossing

Caution!

33kV Power Crossing Only ADSS Type cable to be used No metallic cables permitted



Section 5 Openreach

Keeping safe when working in the vicinity of power from a MEWP/PEU

Before you start work:

Be confident that you know the difference between LOW voltage and HIGH voltage.

Understand the difference in safe working practices between LOW and HIGH voltage.

- Understand the safe sector method.
- Know how to measure the separation distances.
- Have a Risk Assessment form and fill it in
- Have all of the safety equipment that you may need gloves IR, sash lines, measuring rods, spray paint, cones etc.

Remember only LV can be measured with rods.

For HV the ultrasonic device is the ONLY safe method you can use.

Finally ...ask yourself "Have I done enough to keep myself and others safe?"

If you can't answer YES to these questions stop work and seek further guidance.

Your life could just depend on it.

Section 5

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MEWP in the vicinity of Power - LOW voltage

ALWAYS....

- ✓ Be 100% confident that you know the voltage of the overhead power BEFORE you start work. If you're not sure then check.
- ✓ Complete the Ground Support Person (GSP) handshake sign off.
- Complete your risk assessment and record what you find on the RA pad.(JUP's)
- ✓ Be aware of the safe working distances and separation distances.
- ✓ Make sure you have, and can maintain, a communications link between you and the GSP.
- ✓ Be confident that the GSP is able to bring the bucket down in the event of an emergency.

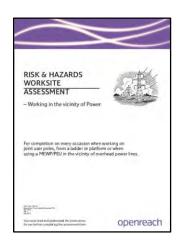
The GSP should not leave site whilst the MEWP is in operation.

The GSP should NEVER go up in the bucket.



SFY/ HSH/D039

O/H Network using a MEWP



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MEWP in the vicinity of Power - LOW voltage

Question - Is there a safe method for putting a wire OVER overhead low voltage?

- Yes, there are two methods to first provide a sashline no2 over the low voltage power conductors

You must be aware that this practice should be restricted to a number of nominated platform teams/operators within each patch. Line Managers / supervisors of those teams/operators must ensure that they go through the content of ISIS EPT/OHP/B011 to ensure full understanding before any work is carried out.

There is a safe system of work for using either 1 or two MEWP's detailed in the ISIS EPT/OHP/B011.

Both involve a sashline No2 being attached/through a plastic tube (Stay Guard High Visibility i/c 013612)

(the ISIS also details how to safely recover wires that are above LV lines)



You should NEVER attempt to throw a sashline over power cables





EPT/OHP/B011 - Overhead Distribution

Section 5 Openreach

MEWP/PEU working in the vicinity of power - HIGH voltage

You don't have to be working on HV poles to get an electric shock. Just working in the vicinity puts you at greater risk and you need to do something different to minimise this.

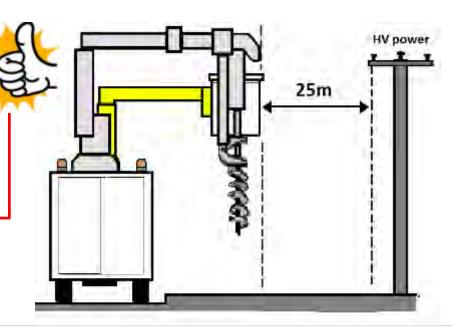
So how close is too close?

If ANY PART of the MEWP or PEU goes within 25m of High voltage you need to employ the SAFE SECTOR METHOD and document your findings and actions on the Risk Assessment form.

Then, depending on the voltage you've identified, your assessment will establish your MINIMUM safe working distance.

Remember: - When operating a MEWP within 25 metres of overhead HIGH VOLTAGE.

TWO FULLY MEWP TRAINED operators MUST be in attendance.



openreach Section 5

MEWP/PEU working in the vicinity of Power - HIGH voltage

Ouestion - What is the safe sector method?

It's simple, it's about identifying the minimum safe working distances from the HV, marking out a RED ZONE, and making sure you don't go into it.

Step 1. Decide the RED ZONE distance from the chart below - no part of the MEWP /PEU must enter this zone.

Step 2. Use cones or temporary spray paint to mark the RED ZONE so that it can be seen from above when you are working (make sure that if you use cones that you wont be confusing any traffic or pedestrians)

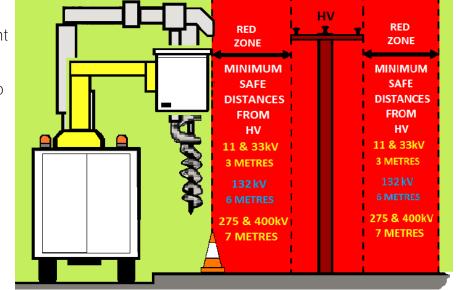
Step 3. Use the fully trained operator acting as a GSP to make sure that you do not enter the RED ZONE.

| HIGH VOLTAGE | MINIMUM safe working distance |
|--------------|-------------------------------|
| 11 & 33 kV | 3 metres |
| 132 kV | 6 metres |
| 275 & 400 kV | 7 metres |

IMPORTANT NOTE: You should NEVER attach. wires or cables to HV poles. If you find, or need to work on, existing BT line plant on HV poles you should contact your manager AND the Openreach safety team who will advise on a safe system of work See ISIS SFY/HSH/D043









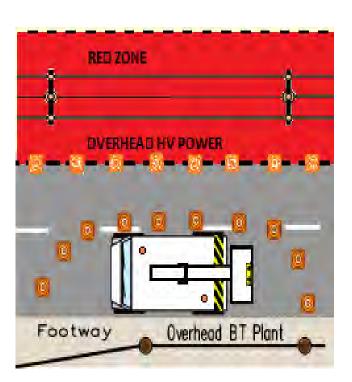
Think of the RED ZONE like a curtain that goes from the edge of the conductors to the ground. **DON'T** even park in this zone.

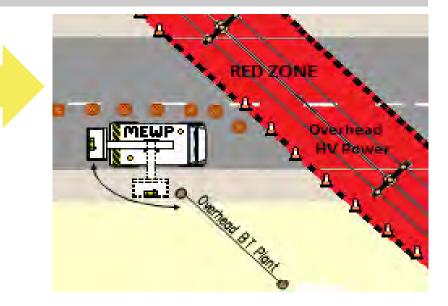
Section 5 Openreach

MEWP/PEU working in the vicinity of Power - HIGH voltage

Safe Sector method - Alternative layouts

Position your vehicle so that when you move the boom around to access BT line plant you do it AWAY from the RED ZONE and avoid any part of the boom encroaching into the zone.





Make sure you mark out the RED ZONE clearly with spray paint or cones so that you can see clearly the extent of the RED ZONE when you are working aloft.

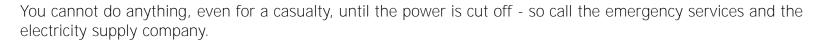
THINK! If you're using cones in the road, advanced RWG is needed. Refer to the Safety at street works & road works code of practice for details.

What should I do in an emergency?

What do you do where power cables have fallen across BT wires or vice versa?

- Keep clear unless a casualty is in contact.
- Warn the public to keep away.
- Stop traffic unless there is room to drive past safely.
- Contact the electricity supply company immediately. (Dial 105)





What if it is a LOW Voltage contact?

If possible wait for the power to be turned off but if any BT wire threatens the public or traffic, and you wear Gloves IR, you can move the BT wires away or cut them back whichever is most practical. Stand on a dry insulating material, such as a rubber car mat if possible.

What if a casualty is in contact with LOW voltage?

Do not touch any wire or the casualty with bare hands, damp gloves or any damp article. Using Gloves IR or insulated tools while standing on insulation try to remove the live wire or using a stick, rope or article of clothing (they must be dry) and try to drag the cable or the person clear.



Section 6 Openreach

Distribution Network Operators emergency contact numbers

From November 2016 power companies have introduced a new service. By simply dialling 105 they will put you through to your local network operator who can give you help and advice. Or you can go to the website below and enter your post code and it will show you all of the contact detail.

| Area | Company | Contact Telephone Number |
|-------|--------------------------------|---|
| 1 & 9 | SSE Power Distribution | Central southern England 0800 072 7282 North Scotland 0800 300 999 |
| 2 & 6 | SP Energy Networks | C &S Scotland 0800 092 9290 North West 0800 001 5400 |
| 4 | Electricity North west | 0800 195 4141 |
| 5 | Northern Powergrid | NE England 0800 66 88 77 Yorks. & N Linc 0800 375 675 |
| 7 | Western Power distribution | 0800 678 3105 |
| 8 | UK Power networks | 0800 316 3105 |
| | Energy Networks Association | http://www.energynetworks.org/info/faqs/ electricity-distribution-map.html |
| ALL | JUST DIAL 105 | www.powercut105.com |



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Where can I find more information on power?

| EPT/PPS/B046 | Work on overhead BT lines in the vicinity of power - Precautions against electrical accidents |
|--------------------------|---|
| EPT/OHP/C032 | Working on Joint User Poles |
| EPT/PPS/B026 | Code of Practice - Protection of Telecommunication Lines from Power Lines |
| EPT/PPS/B023 | Electrified Railways - Electrical Guarding |
| EPT/PPS/B038 | Joint User Poles - Technical Requirements for Attachment on Joint User Poles |
| EPT/PPS/B037 | Joint User Poles -attachments |
| SFY/ HSH/D039 | O/H Network using a Mobile Elevating Work Platform |
| EPT/OAM/F070 | Non BT pole attachments |
| Health & Safety handbook | https://hr.bt.com/en-wish_3rdParty/safety-wellbeing/safety |
| 0800 181 4321 | Safety services via HR shared service |
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