

## Handling and installation of Cables up to and including 33kV

### Depth of Cover

Cables and ducts shall be installed so as to provide the minimum depth of cover detailed below.

Surface Type	Voltage		
	33kV	11 kV	Low Voltage
	Minimum Depth of Cover (mm)		
Unmade ground, footways & footpaths	775	600	450
Roads	775	700	600
Cultivated ground inc. gardens	775	700	600
Agricultural land	910	910	910

On railway property, other than across or near railway track, normal depth of cover shall be used subject to a minimum depth to comply with the standard railway wayleave agreement.

In certain situations it may not be possible to achieve the minimum cover detailed above. In these cases, it will be necessary to:-

- Minimise the length over which minimum depth is not attained.
- Install additional mechanical protection as appropriate for the location and circumstances.
- Install additional warning, for example in the form of posts or signs, appropriate to the location and circumstances.
- Ensure that the cable records clearly detail the shallow section of cable.

### Position of Marker Tapes and Protection Tiles

Approved marker tapes shall be installed 200mm above all low voltage cables and joints.

Approved marker tapes shall be installed 250mm above all 11kV cables and joints. Where an 11kV cable is installed directly below another cable, its protection tape shall be installed immediately below the higher cable.

Approved protection tiles shall be installed 75mm above all 33kV cables and 33kV joints.

Where existing warning markers on any cable are disturbed or removed during excavation, these markers shall be replaced or renewed as appropriate.

Where existing cables without warning markers are uncovered during the course of excavation, new marker tape or tile shall be installed over the complete exposed section of the existing cables.