

Notes:





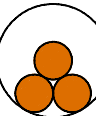
1. All dimensions are in mm unless otherwise specified.
2. The arrangement of the cabling is indicative only. MV Electrical design will determine the exact layout.
3. The size of the cabling trenches comply the specifications for Normal Arable Land. Installation will be in accordance with the recommendations made by NJUG in their 'Publication Number 7'
4. All excavations must be carried out in accordance with Regulations 12 & 13 of the Construction (Health, Safety and Welfare) Regulations 1996.
5. Cables will be surrounded by material complying with ENA Technical Specification 97-1.
6. 11kV Polymeric Cables with LSF Cable Sheath

Medium voltage distribution cables shall be 3 core 6350/11000V rated and comply generally to BS 7870 Section 4-20. The conductors shall be triple extruded tree retardant XLPE or EPR insulated with cold strippable insulation screen, with waterblocked stranded aluminium conductors, phase identification and copper wire screen. The overshield shall be an extruded layer or compound type LTS 1 conforming to the requirements of BS 7655-6.1 and be coloured red.

7. 33kV Polymeric Distribution Cable

33kV single core distribution cables shall comply with BS 7870 Section 4-10 Table 3. The conductors shall be triple extruded tree retardant XLPE or EPR insulated with cold strippable insulation screen, with stranded copper conductors. The overshield shall be black MDPE. The preferred conductor sizes are 185 mm<sup>2</sup>, 240 mm<sup>2</sup> and 500 mm<sup>2</sup> copper or 300 mm<sup>2</sup>, 400 mm<sup>2</sup> and 500 mm<sup>2</sup> aluminium with a 35 mm<sup>2</sup> copper wire screen with equalising wire or tape and water blocking on the screen wires.

Legend:

-  Surface earth electrode
-  Underground warning tape
-  LV cable
-  Fiber optic cable
-  MV Cable

Scale (at A3): 1:10

Date: October 2018

Prepared by:



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Mynydd y Gwrhyd Solar Farm

Figure 3-7: Trenching Cross Section

Drawn by: DR

Checked by: RH

Version: V1

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