
	Specification for Recording Mains and Services During the Installation Of New Connections	Page 1 of 5
Applies to Third Party Installers of New Connections	SP-PS-317	
Prepared by: S Courtier, Network Services		Rev: 1.01

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1. Scope

This specification is intended for use by third party new connections that will be adopted by S+S.

2. Introduction

The third party is required to provide S+S with a detailed record of the position of all plant, mains and services installed on a site which is the subject of an Adoption Agreement. A list of standard drafting symbols is shown on page 4 and 5 of this document.

3. Format

This will normally utilise a printed plan of the site although a GIS system may be used if compatible with that used by S+S. The preferred scale is 1:500.

The plan shall have a geographical alignment indication (“North Pointer”), a six figure National Grid Reference number and sufficient off-site detail to facilitate the incorporation of the site into the S+S mains records.

4. Details Required


4.1 Main Cables and Joints

A detailed description of each cable shall be marked on the plan between all main joint positions. These details shall include the Voltage, Conductor size, Conductor material (Cu. Or Al), Insulation type, Sheath type. These can be abbreviated as shown on page 4 of the document.

Dimensions must be taken only from permanent features and be given in metres to one decimal place; they must be sufficient to locate the cable without ambiguity especially where abrupt changes in direction take place. All Joint positions must be located by at least two measurements. Most cables will be laid to a constant standard depth as set out in the job specification; these shall be stated on the margin of the plan to indicate depth from the finished ground level to the top of the cable. Variations from standard depth must be indicated on the plan at the actual location.

4.2 Ducts

Ducted cable sections shall be indicated on the plan with the standard symbol. If there is more than one duct a dimensional cross-section shall be provided indicating the duct size in millimetres and the voltage and location of each cable in the duct block; spare ducts must be shown. These cross sections can be placed at the margin of the plan and cross referenced to the actual location by a letter code. See page 4 of this document for example. Ducts provided but not used shall be indicated on the plan with the appropriate symbol. The type of duct need not be stated unless it is steel.

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4.3 Service Cables and Joints

The position of Service Cables and Service Joints shall be included on the plan; if the service cables are installed in tubes this shall be recorded. Services to the buildings, street lights and other street furniture and all other services shall be included.

5. PME Earth Electrodes

PME Earth electrodes shall be indicated by the appropriate symbol.

6. Underground Link Boxes and Distribution Pillars

Link boxes and above ground distribution pillars (not being within a substation) shall be shown on the plan in the correct position but need not have dimensions given.

7. Overhead Mains

All pole positions shall be recorded accurately on the plan but need not have measurements attached; stays shall be indicated. The Type and size of conductor must be given.



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STANDARD SYMBOLS FOR MAINS RECORDS

<u>DESCRIPTION</u>	<u>SYMBOL</u>
Straight Joint	
Tee or Breech Joint	
Ducted Section	
Pot End	
PME Position	
Spare Duct without cable	
Pole Box	

Abbreviations for Cable Identification

1/c = Single core cable. 3/c = Three core cable.

Cu = Copper, Al = Aluminium

PICAS = Paper Insulated, Corrugated Aluminium Sheath

XLPE = Cross Linked Polyethelene

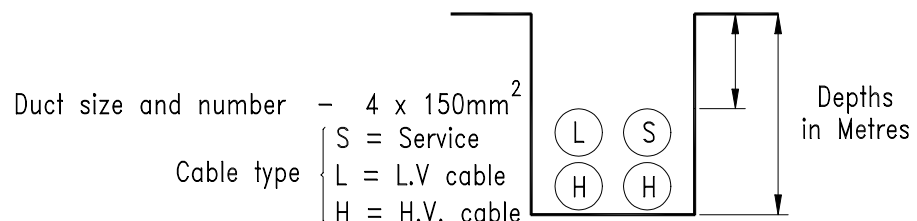
EPR = Ethylene Propylene Rubber

Wavecon = Copper stranded combined neutral/earth wavewound

Conc. = Concentric service cable

ABC = Aerial Bundled Conductor (Overhead L.V. main)

Example of Duct Crossing Record





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STANDARD SYMBOLS FOR MAINS RECORDS

	LV UNDERGROUND STREET LIGHTING CABLE
	.....	LV UNDERGROUND SERVICE CABLE
	.....	LV UNDERGROUND MAINS CABLE
	.....	LV UNDERGROUND DC CABLE
	.....	6.6KV UNDERGROUND CABLE
	.....	11KV UNDERGROUND CABLE
	.....	22KV UNDERGROUND CABLE
	.....	33KV UNDERGROUND CABLE
	.....	LV OVERHEAD LINE
	.....	11KV OVERHEAD LINE
	.....	11KV/LV DUAL CONSTRUCTION OVERHEAD LINE
	.....	22KV OVERHEAD LINE
	.....	33KV OVERHEAD LINE
	.....	33KV /132KV DUAL CONSTRUCTION OVERHEAD LINE
	.....	132KV OVERHEAD LINE
	.....	275KV OVERHEAD LINE
	.....	275KV DOUBLE CIRCUIT OVERHEAD LINE
	.....	132KV UNDERGROUND CABLE
	.....	275KV UNDERGROUND CABLE
	.....	AUXILIARY UNDERGROUND CABLE (PILOT/METERING ETC.)
	.....	OUT OF SERVICE CABLE (O.O.S.- ALL VOLTAGES)
	.....	TELECOMS CABLE
	.....	O/H FLASHING LIGHT FAULT PASSAGE INDICATOR
	.....	U/G RELAY FAULT PASSAGE INDICATOR
	.....	AIR BREAK
	.....	FUSE/LINK
	.....	AUTO RECLOSER
	.....	IN LINE DISC
	.....	JUMPERS
	.....	REPEATER FUSES
	.....	SECTIONALISER
	.....	POLE BOX
	.....	POLE MOUNTED TRANSFORMER
	.....	SUBSTATION
	.....	FEEDER PILLAR
	.....	LINK BOX