

Testing and certificating in

Bill Allan explains the best way to go about the job and what's expected in Part 6 of the NAPIT Electrical Installation Certificate



Questions can arise over the testing and certification requirements for remote distribution boards – for example, 2-way boards, commonly installed in detached garages. Part 6 of the *NAPIT Electrical Installation Certificate* is intended for such remote boards and in this feature I will guide you on how to complete it.

A typical example

In order to explain how to complete Part 6, it's probably best to consider a specific example. Fig. 1 shows a typical remote distribution board. It's a 2-way consumer unit in a detached summerhouse with a miniature circuit breaker for the lighting circuit and another for the socket-outlet circuit.

It's supplied from a 40A mcb in the main consumer unit of the house. The sub-main cable is 3 core 6mm². I'll assume in this example that the electrical contractor has installed the sub-main cable and the circuits within the summerhouse.

Part 6 of the *NAPIT Electrical Installation Certificate* is reproduced below right. It has been completed using typical figures for this type of installation.

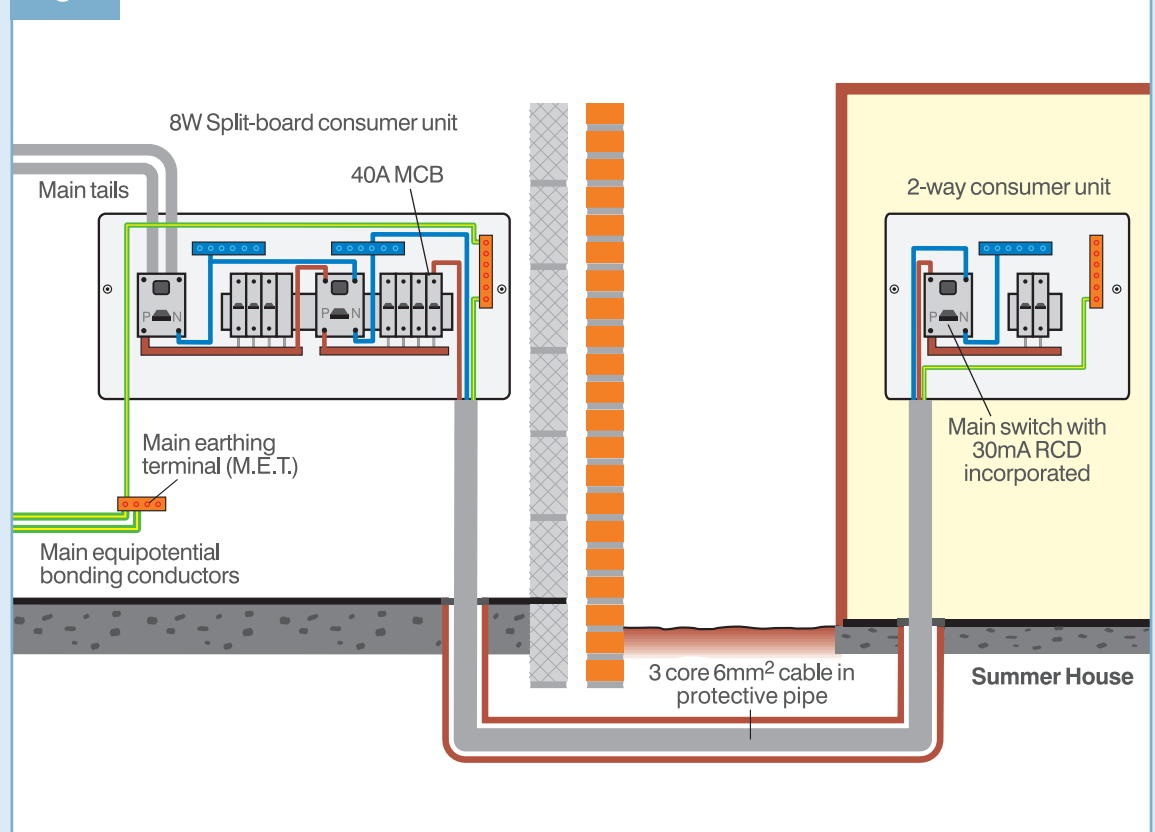
Complete in every case

The section, "Complete in every case", is to be tackled whether the remote DB is connected directly to the origin of the installation or not. If the consumer unit in the house, shown in Fig. 1, had been full, then the supply to the summerhouse could have been provided using double-pole connector blocks. In that situation, it would only be necessary to complete the section marked, "Complete in every case". The remainder of Part 6 would be left blank or marked N/A for non applicable.

"Complete only if the distribution board is not connected directly to the origin of the installation"

This section is divided into two parts. If we refer again to Fig. 1, then the first part requires information regarding the main consumer unit in the house. The second part of the section concerns the characteristics at the consumer unit in the summerhouse. Notice that values of Z_e and the prospective fault current I_{pf} are required.

Fig 1 Remote distribution board in a detached summerhouse



	<h2 style="margin: 0;">NAPIT Electrical Test Sheet</h2> <p style="font-size: small; margin: 0;">Requirements for Electrical Installations – BS 7671 (IET Wiring Regulations) and for compliance with Building Regulations Part P.</p> <p style="font-size: x-small; margin: 0;">Please complete all the unshaded areas.</p>	This sheet forms part of Inspection Report Number / Certificate Number <div style="float: right; text-align: left;"> Name/CIR No. <small>*Leave as applicable</small> Page 1 of 1 </div>
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