WHAT DESIGN MEANS

CAN THE EXISTING INSTALLATION TAKE A BIGGER SHOWER?

Design isn't just picking any cable. It's based on the client's needs and on what's already there. Before adding or altering a circuit, check that the existing installation can:

- **carry the additional load**
- **provide adequate shock protection**
- has **satisfactory earthing and bonding**

Think of design as a **chain**. The **load** gives the design current, which decides the **protective device**, which with the **installation method** and conditions decides the **cable size**, which must then pass **voltage drop**. Example: if a client upgrades a shower from 5 kW to 8 kW, the existing cable may no longer be suitable.

> **BS 7671** · Appendix 1: British Standards and other standards referred to (about 22 pages) · **p.411**

Free section from Sparky Study Notes. The full Level 3 notes, 1,463 practice questions and the video lessons: sparkystudynotes.co.uk