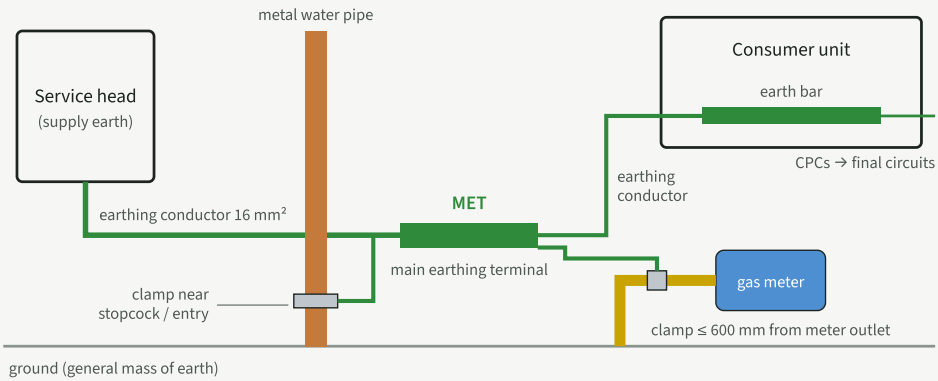
MAIN PROTECTIVE BONDING

WHERE DOES MAIN BONDING GO, AND WHAT DOES IT CONNECT?



main protective bonding conductors (10 mm²), each with a BS 951 clamp and label

Main protective bonding connects every **extraneous conductive part** to the **MET**. If there's no separate external MET, the earth bar in the consumer unit acts as the MET, and all the bonding, the earthing conductor and the CPCs go there.

- Make the bond on the **consumer's side** of the meter or stopcock, **within 600 mm** of the gas meter outlet union or the water point of entry, before any branch.
- **Plastic incoming service pipe? No main bonding needed**, e.g. yellow plastic gas pipe or blue plastic water pipe. If even a short length of the incoming pipe is **metal** where it leaves the ground, you **must** bond it.
- **CPCs** (the green/yellow in your final circuits) go to the earth bar in the **consumer unit**, not to an external MET.
- Bonding clamps are **BS 951**. The conductor goes under the plate (lugged, crimped or wrapped round the screw). They carry a **"Safety electrical connection – do not remove"** label, and a label also goes at the MET. Labels are required by the regulations.

BS 951 CLAMP COLOUR (COMMON PRACTICE)	ENVIRONMENT
Red / silver	Internal, dry areas
Blue	External or slightly damp areas
Green	Corrosive or hazardous areas

Electrician's Guide to the Building Regs · 3.3.2 Earthing conductor and main protective bonding conductors: list of services to bond · **p.58**

Electrician's Guide to the Building Regs · Plastic supply pipes: no bonding needed. Bonding within 600 mm of meter or entry · **p.59**

Electrician's Guide to the Building Regs · BS 951 earth clamp label image · **p.63**

On-Site Guide · Section 4 Bonding and earthing: earthing and main bonding figure · **p.61**

Read the notes under tables

A lot of exam questions come from the small **notes** under tables and figures. Don't skip them.

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