203: Electrical installations technology  
**Worksheet 16: Cable selection**

**Answer guide**

1. **A 230V 4kW load (0.9pf) feed from a TN-C-S supply is to be wired in non‑armoured single‑core 70°C thermoplastic insulated copper conductors wired in steel conduit installed on the surface some 25 metres from the distribution board. Three other similar circuits are installed in the same conduit which passes through an area where the ambient temperature reaches 40°C. Calculate the cross‑sectional area of cable required if protection is by a BS88‑2 fuse. Show all working.**