CHECKING ZS FOR A FUSE

A 16 AMP FUSE READS 3.25 OHMS. PASS?

Fuses have their own table, and a different disconnection time.

A 16 A BS 88-2 (gG) FUSE ON A DISTRIBUTION CIRCUIT

Disconnection time = **5 seconds** (distribution circuit)

BS 7671 · Table 41.4 · p.76

Tabulated Z_s = 4.0 Ω

80% figure = 4 × 0.8 = **3.2 Ω**

Reading taken = 3.25 Ω

✋ **That one fails.** A 3.25 Ω reading sits just **above** the 3.2 Ω figure the 80% rule gives, so it is not acceptable — however close it is. Find the tabulated value in your own book, apply the 80%, and compare. Over is over.

Different device, different table.
Table 41.3 is circuit breakers and RCBOs. **Table 41.4** is fuses with a 5 second disconnection time. Read the question for which device you have.

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