



Proposal to amend ECC Armouring Wire requirements in SANS 1507 Parts 4 (§ 4.2.5.4 c) and 5 (§ 4.2.5.4 d)

Introduction

There is a misalignment for the requirement of the hardness of ECC wires in the cable armouring between SANS 1507-3, SANS 1507-4 and SANS 1507-5.

SANS 1507-3, § 4.2.5.4 d), defines the requirements for earth continuity conductor in the cable armouring as follows:

- d) **“Earth continuity conductor:** When an improved ... an appropriate number of steel armour wires may be replaced by tinned hard-drawn or annealed copper wires of the same nominal diameter.”

SANS 1507-4 § 4.2.5.4 c) and SANS 1507-5 § 4.2.5.4 d) defines the requirements for earth continuity conductor in the cable armouring as follows:

- **“Earth continuity conductor:** When an improved ... an appropriate number of steel armour wires may be replaced by tinned hard-drawn wires of the same nominal diameter.”

Proposed change to SANS 1507-4 § 4.2.5.4 c) and SANS 1507-5 § 4.2.5.4 d)

The choice for the use of either hard-drawn or annealed copper wires as ECC wires in cable armouring will not significantly affect the electrical nor the mechanical performance of the SANS 1507 Parts 3,4 or 5 cable installed in fixed installations.

We propose to change SANS 1507-4 § 4.2.5.4 c) and SANS 1507-5 § 4.2.5.4 d) to align with the ECC wire requirements of SANS 1507-3 § 4.2.5.4 d) and contain the following clause:

- **“Earth continuity conductor:** When an improved ... an appropriate number of steel armour wires shall be replaced by tinned hard-drawn or tinned annealed copper wires of the same nominal diameter.”

Conclusion

As there exists a misalignment for the requirement of the hardness of ECC wires in the cable armouring between SANS 1507-3, SANS 1507-4 and SANS 1507-5, the proposal is to align SANS 1507-4 (§ 4.2.5.4 c) and SANS 1507-5 (§ 4.2.5.4 d) with the ECC wire requirements of SANS 1507-3 (§ 4.2.5.4 d).