

ISBN 978-0-626-32008-9

# SANS 1507-1:2007

Edition 1.1

Any reference to SABS 1507-1 is deemed  
to be a reference to this standard  
(Government Notice No. 1373 of 8 November 2002)

## SOUTH AFRICAN NATIONAL STANDARD

### Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V)

#### Part 1: General

**SANS 1507-1:2007**  
Edition 1.1

**Table of changes**

<b>Change No.</b>	<b>Date</b>	<b>Scope</b>
Amdt 1	2007	Amended to change the designation of SABS standards to SANS standards and to update referenced standards, to modify the definition of type test, to update marking requirements to align with international standards, and to update the bibliography.

**Foreword**

This South African standard was approved by National Committee SABS/TC 066, *Electric cables*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in December 2007.

This document supersedes SABS 1507-1:2002 (edition 1).

A vertical line in the margin shows where the text has been technically modified by amendment No. 1.

**This document is referenced in the *Compulsory specification for the safety of electric cables with extruded solid dielectric insulation for fixed installations*, as published by Government Notice No. R. 1169 (Government Gazette No. 21759) of 24 November 2000.**

SANS 1507 consists of the following parts, under the general title *Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V)*:

*Part 1: General.*

*Part 2: Wiring cables.*

*Part 3: PVC Distribution cables.*

*Part 4: XLPE Distribution cables.*

*Part 5: Halogen-free distribution cables.*

*Part 6: Service cables.*

Annexes A, B and C are for information only.

<p><b>Reaffirmed and reprinted in May 2015.</b> <b>This document will be reviewed every five years</b> <b>and be reaffirmed, amended, revised or withdrawn.</b></p>
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## **Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V)**

### **Part 1: General**

#### **1 Scope**

**1.1** This part of SANS 1507 covers the definitions, requirements for packing and marking, and informative annexes for single-core and multicore extruded solid dielectric insulated cables of rated operating voltage ( $U_0/U$ ) in the range 300/500 V to 1 900/3 300 V, for use in fixed installations, as covered by SANS 1507-2 to SANS 1507-6.

**1.2** Specific requirements are given for a number of types of cables in common use. The types are as follows:

- a) single-core and multicore cables, armoured and unarmoured;
- b) multicore flat cables with and without an earth continuity conductor;
- c) multicore round cables with aluminium / PVC laminate and an earth continuity conductor;
- d) cables with concentric conductors;
- e) cables with split concentric neutral and earth conductors;
- f) panel/cubicle cables, excluding flexible cables and cords; and
- g) insulated earth conductors.

**1.3** This specification also covers cables that reduce the overall risk associated with fires.

#### **2 Normative references**

The following standards contain provisions which, through reference in this text, constitute provisions of this part of SANS 1507. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this part of SANS 1507 are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

SANS 1411-1, *Materials of insulated electric cables and flexible cords – Part 1: Conductors.*

SANS 1411-2, *Materials of insulated electric cables and flexible cords – Part 2: Polyvinyl chloride (PVC).*