SOUTH AFRICAN NATIONAL STANDARD

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

Part 3: PVC Distribution cables

WARNING
This document references other documents normatively.
SANS 1507-3:2015
Edition 1.2

Table of changes

<table>
<thead>
<tr>
<th>Change No.</th>
<th>Date</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amdt 1</td>
<td>2007</td>
<td>Amended to change the designation of SABS standards to SANS standards, to update referenced standards and a cross-reference to SANS 1507-1, and to delete reference to the standardization mark scheme.</td>
</tr>
<tr>
<td>Amdt 2</td>
<td>2015</td>
<td>Amended to update referenced standards.</td>
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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 approved for publication in March 2015.

This document supersedes SABS 1507-3:2007 (edition 1.1).

A vertical line in the margin shows where the text has been technically modified by amendment No. 2.

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.

For guidance the following additional information, which does not form part of the requirements of this standard, is provided in SANS 1507-1:

a) notes to purchasers;

b) guidance on the verification of the quality of extruded solid dielectric insulated cables; and

c) guidance on the installation of extruded solid dielectric insulated cables.
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Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V)

Part 3:
PVC Distribution cables

1 Scope

1.1 This part of SANS 1507 covers the requirements for construction, materials, dimensions and electric properties of single-core and multicore extruded PVC insulated cables of rated operating voltages ($U_0 / U$) 600/1 000 V and 1 900/3 300 V, for use in fixed installations.

1.2 Specific types of cables covered by this part of SANS 1507 are the following:

a) Single and multicore PVC insulated armoured and unarmoured circular cables with protective covering(s); and

b) PVC Insulated earth conductors.

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.

EN 12548, Lead and lead alloys – Lead alloy ingots for electric cable sheathing and for sleeves.

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).

SANS 1411-6, Materials of insulated electric cables and flexible cords – Part 6: Armour.

SANS 1507-1, Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V) – Part 1: General.

SANS 5526, Dielectric resistance of electric cables.