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Edition 1.6

SOUTH AFRICAN NATIONAL STANDARD

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

Part 5: Halogen-free distribution cables

WARNING

This document references other
documents normatively.

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Table of changes

Change No.	Date	Scope
Amdt 1	2007	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.
Amdt 2	2009	Amended to add a referenced standard, to clarify a reference, and to add requirements for the compatibility test.
Amdt 3	2012	Amended to update the referenced standards for the compatibility test of XLPE insulation and the halogen emission test.
Amdt 4	2015	Amended to update referenced standards, and to include the publication dates of standards where reference has been made to specific items in those standards.
Amdt 5	2018	Amended to update referenced standards and the test methods requirements.
Amdt 6	2020	Amended to update the table on core insulation colour coding, to add the subclause on spark testing of the sheath, and to change the rate of conductivity of halogen gas.

Foreword

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

This document was approved for publication in June 2020.

This document supersedes SANS 1507-5:2018 (edition 1.5).

A vertical line in the margin shows where the text has been technically modified by amendment No. 6.

This document is referenced in the Local Government: Municipal Systems Act, 2000 (Act No. 32 of 2002), and the *Compulsory specification for the safety of electric cables with extruded solid dielectric insulation for fixed installations*, as published by Government Notice No. 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) guidance on the verification of the quality of extruded solid dielectric insulated cables; and
- b) guidance on the installation of extruded solid dielectric insulated cables.

Compliance with this document cannot confer immunity from legal obligations.

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