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Edition 1.5

SOUTH AFRICAN NATIONAL STANDARD

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

Part 4: XLPE Distribution cables

WARNING

**This document references other
documents normatively.**

Published by the South African Bureau of Standards
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001
Tel: +27 12 428 7911 Fax: +27 12 344 1568

www.sabs.co.za

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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 in 5.1, to correct a cross-reference to SANS 1507-1, and to delete reference to the standardization mark scheme.
Amdt 2	2009	Amended to add reference standards, to add halogen-free flame retardant material or polyethylene as an option for bedding and to add halogen-free material as an option for the outer sheath.
Amdt 3	2012	Amended to add SANS 1411-5 as the test method for halogen-free material to the list of tests to be conducted (table 8).
Amdt 4	2014	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	2020	Amended to update the scope and referenced standards, to update the table on core insulation colour coding, and to add the subclause on spark testing of the sheath.

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 1507-4:2014 (edition 1.4).

A vertical line in the margin shows where the text has been technically modified by amendment No. 5.

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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