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GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

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DEPARTMENT OF TRADE AND INDUSTRY

NO. R. 758

24 JUNE 2016

**NATIONAL REGULATOR FOR COMPULSORY SPECIFICATIONS ACT  
(Act No. 5 of 2008), AS AMENDED THROUGH LEGAL METROLOGY ACT (Act No.  
9 of 2014)**

**PROPOSED AMENDMENTS TO THE COMPULSORY SPECIFICATION FOR  
ELECTRIC CABLES WITH EXTRUDED SOLID DIELECTRIC INSULATION FOR  
FIXED INSTALLATIONS (300/500 V to 1 900/3 300 V) (VC 8075)**

It is hereby made known under section 13(4) of the National Regulator for Compulsory Specifications Act, (Act 5 of 2008) as amended, that I, Dr Rob Davies, Minister of Trade and Industry, on the recommendation of the NRCS, intends to declare the Compulsory Specification for safety of electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1900/3 300 V) as set out in the attached schedule.

Any person, who wishes to comment on the intention to amend the Compulsory Specification concerned, may submit their comments in writing to the Chief Executive Officer, National Regulator for Compulsory Specifications, Private Bag X 25, Brooklyn, 0075, on or before the date two (2) months after the publication of this notice.



**Dr Rob Davies, MP  
Minister of Trade and Industry**

**SCHEDULE****COMPULSORY SPECIFICATION FOR SAFETY OF ELECTRIC CABLES WITH  
EXTRUDED SOLID DIELECTRIC INSULATION FOR FIXED INSTALLATIONS  
(300/500 V TO 1 900/3 300 V)****VC 8075****1. SCOPE**

1.1 This compulsory specification covers the safety of single-core and multi core extruded solid dielectric insulated cables of rated operating voltage ( $U_0/U$ ) in the range (300 /500 V to 1900/ 3300 V), for use in fixed installations.

**2. DEFINITIONS**

2.1 For the purposes of this document, the definitions in SANS (South African National Standard) 1507 series of standards apply.

2.2 In addition, the following definitions shall apply:

**2.2.1 Applicant:** The manufacturer or importer seeking approval for *electric cable(s)*. The applicant shall be an existing legal entity within the Republic of South Africa.

**2.2.2 Electric Cable:** single-core and multi core extruded solid dielectric insulated cables of rated operating voltage ( $U_0/U$ ) in the range (300 /500 V to 1900/ 3300 V), for use in fixed installations.

**2.2.3 Proof of approval:** Confirmation by the NRCS that a particular *electric cable* type satisfies the requirements of this compulsory specification.

**2.2.4 Proof of conformity:** documented evidence of conformity with the requirements of this compulsory specification

**2.2.5 Declaration report:** a report that is issued by an accredited conformity assessment body, indicating the equivalence of products and/or standards.

- 2.2.6 NRCS:** The National Regulator for Compulsory Specifications as established by the National Regulator for Compulsory Specifications Act, 2008 (Act No. 5 of 2008).
- 2.2.7 Proof of approval:** proof that *electric cable(s)* have been approved by the NRCS.
- 2.2.8 Full test report:** a test report that covers the full testing of a product, issued less than 36 months before the date of submission to the NRCS for approval.
- 2.2.9 Valid test report:** a test report that covers partial or full testing of a product, issued less than 36 months before the date of submission to the NRCS for approval.
- 2.2.10 Product Certificate:** A document (a certificate or a permit or a license) issued by a body operating a product certification system described in 7.2 of this compulsory specification and accredited to SANS ISO/IEC 17065 standard.
- 2.2.11 Conformity of Production:** Proof (issued less than 12 months before the date of submission to the NRCS for approval) that *electric cables* offered for sale have been manufactured to the approved design and continue to comply with the requirements of this compulsory specification.

### 3. GENERAL REQUIREMENTS

- 3.1** The applicant shall ensure that each type of *electric cable* has been approved by the NRCS before offering it for sale, in accordance with the requirements of Annex A.
- 3.2** The applicant shall inform the NRCS of any change in design or materials affecting any mandatory requirement in terms of this compulsory specification. In the event of such change(s) the NRCS may, at its discretion, demand that the applicant submit a new application for approval.
- 3.3** The applicant shall, on request, provide the NRCS, within five (5) working days, with satisfactory proof of approval in respect of any type of *electric cable* included in the scope of this compulsory specification.
- 3.4** The applicant shall on request provide the NRCS, within five (5) working days, with satisfactory proof of conformity of production.

- 3.5** Failure to provide such proof shall constitute reasonable grounds for suspicion of non-compliance with the requirements of this compulsory specification.

#### **4. SPECIFIC REQUIREMENTS**

**Electric cables** shall comply with the requirements of SANS 1507-1, *Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V)* and other relevant parts of SANS 1507.

#### **5. EQUIVALENCE OF STANDARDS**

Standards issued by different standardization bodies such as ISO (International standards organisation), EN (European standard), UL (Underwrite Laboratories), AUS/NZ (Australian/New Zealand standards) etc., will only be accepted if it is proven, in the form of a declaration report from an accredited conformity assessment body, that they are technically equivalent in all respects to the relevant South African National Standard. The applicant shall be responsible for obtaining such a declaration report. Proof of conformity with such a standard shall be accepted as conformity with the corresponding South African National Standard (SANS).

#### **6. CONFORMITY TO REFERENCED STANDARDS**

- 6.1** For the purposes of this compulsory specification, a new edition of a referenced standard shall become effective twelve (12) months from the date of publication as a South African National Standard.
- 6.2** New products, or products resubmitted for approval because of a change in design or materials, shall in all cases be evaluated against the requirements of the latest edition of any referenced standard.
- 6.3** When a new edition of a referenced standard is published, products originally approved in accordance with the previous edition of that standard may have their approval extended for up to five (5) years from the effective date of the new standard, subject to the requirements of Annex A, unless declared otherwise by the Minister.

## 7. EVIDENCE OF CONFORMITY

One of the following options of evidence shall be submitted to the NRCS as proof of conformity with the requirements of this compulsory specification:

### 7.1 Option 1, for *electric cables without a product certification*:

7.1.1 Full test report(s) in IEC/EN format or any equivalent format acceptable to the NRCS and issued by an appropriately accredited and internationally recognized body being a member of an IAF/ILAC/IECEE mutual recognition scheme in accordance with the NRCS's conformity assessment policy.

7.1.2 The full test report(s) shall prove conformity with all the applicable mandatory requirements.

7.1.3 Evidence of conformity shall be traceable to the specific *electric cable* type(s).

### 7.2 Option 2, *electric cables with product certification*:

7.2.1 A product certificate and a valid test report issued by an appropriately accredited and internationally recognized body being a member of an IAF/ILAC/IECEE mutual recognition scheme in accordance with the NRCS's conformity assessment policy.

7.2.2 The certification system administered by the product certification body in 7.2.1 shall include testing of the products and assessment of the quality system of the manufacturer. Surveillance of the quality system shall be conducted and representative samples of *electric cables* of each type or representative of the family of *electric cables* of generically the same design in respect of components wiring methods, intended to comply with the requirements of this compulsory specification, shall be taken from the point of production and shall be assessed through inspection and/or testing for on-going conformity.

The certification system shall include the following:

- samples from the point of production requested by the certification body;
- determination of the characteristics of the samples by testing;
- initial assessment of the production process and quality system;

- evaluation of the test reports;
- decision on certification of the manufacturer;
- granting certification to the manufacturer;
- surveillance of the production process and quality system, and
- surveillance by testing of samples from the factory or the market.

A system 5 certification contemplated in ISO/IEC 17067 (Conformity assessment: fundamentals of product certification and guidelines for product certification schemes) which covers the requirements of this clause shall be deemed to comply with these requirements.

## ANNEX A - APPROVAL OF ELECTRIC CABLES

### A.1 APPLICATION FOR APPROVAL

An application for approval of each type of *electric cable* intended for sale shall include:

- A.1.1 Details of the type of *electric cable* for which approval is sought and the standard(s) to which it is claimed to conform;
- A.1.2 Details of the manufacturing plant/s in which the *electric cables* type is produced;
- A.1.3 For new applications, proof of conformity, with all the requirements of this compulsory specification, issued less than **36** months before the date of submission to the NRCS;

#### A.1.4 For *electric cables* without a product certificate:

On expiry of the approval (LOA), an application for an extension may be granted, provided that all the conditions of the previous approval were met. In this case, proof of compliance, with all the requirements of the relevant compulsory specification, issued less than 60 months before the date of submission to the NRCS, shall be required;

#### A1.5 For *electric cables* with a product certificate:

On expiry of the approval (LOA), an application for an extension may be granted, provided that a valid (as determined by the conformity assessment body) product certification is submitted to the NRCS.

**A.1.6** Identification markings and other information appearing on the product; and

**A.1.7** Any reasonable additional information in order to clarify the above that may be requested by the NRCS.

## **A.2 APPROVAL**

**A.2.1** The NRCS shall assess the evidence of conformity supplied by the applicant and shall decide to grant approval or not, at its sole discretion.

**A.2.2** The NRCS shall assign a unique number to each approval.

**A.2.3** The NRCS shall issue a letter of authority certificate (LOA) for each successful application, to the applicant, when all the requirements have been met.

**A.2.4** The approval granted with respect to each type of *electric cable* that is pursuant to this compulsory specification may be withdrawn at any time, after the manufacturer has been notified in writing, if the requirements have not been met or maintained.