



PCD 773:2025
TZS 104: 2015

DRAFT ZANZIBAR NATIONAL STANDARD

Aluminium PVC insulated conductors for overhead power service lines — Specification

DRAFT STANDARD FOR PUBLIC COMMENTS

ZANZIBAR BUREAU OF STANDARDS

National foreword

ZBS is in the process of adopting TZS 104: 2015, Aluminium PVC insulated conductors for overhead power service lines — Specification, under the Electrical and Electronics Standard Technical committee. In accordance with ZBS general procedures, this draft standard is presented to the public in order to receive any technical comment concerns.

Technical Committee Representatives

This Draft Zanzibar National Standard was prepared by Electrical and Electronics Standard Technical committee which consists of representatives from the following organizations:

Zanzibar Electricity Corporation (ZECO)
Department of Energy (DoEM)
Zanzibar National Chamber of Commerce, (ZNCC)
Kilimanjaro Cable(T) LTD
Tanzania Communications Regulatory Authority (TCRA)
Zanzibar Bureau of Standards (ZBS) – Secretariat

Zanzibar Bureau of Standard (ZBS)
P O Box 1136
Zanzibar
Tel: +255 24 2232225
Fax: +255 24 2232225
E-mail: info@zbs.go.tz
Web: www.zbs.go.tz

Aluminium PVC insulated conductors for overhead power service lines — Specification

Scope

1.1 This Tanzania Standard specifies requirements for PVC-covered conductors for overhead power lines. These requirements are limited to the PVC covering and to the testing thereof after application to the conductor.

1.2 Two minimum thicknesses of covering have been standardized as follows;

Designation	Minimum thickness of covering
Type 8	0.8 mm
Type 16	1.6 mm

1.2.1 Type 8 is intended for use only where the operating voltage of the power line does not exceed 650 V r.m.s. between any two conductors or 250 V r.m.s. between any conductor and earth.

Under these operating conditions, it is suitable for:

- a) Crossings of telecommunication lines to guard against contact.
- b) Proximities to telecommunication lines to guard against contact.
- c) Lines (particularly service lines) to be accessible from buildings.

1.3 Type 16 is intended for use only where the operating voltage of the power line exceeds 650 V r.m.s. between any two conductors or 250 V r.m.s. between any conductor and earth, but does not normally exceed 11 kV.r.m.s between conductors or 6.6 kV.r.m.s between any conductor and earth. The earthing of a neutral point of the system through an arc-suppression coil is not precluded. If arrangements exist for clearing earth faults without undue delay under these operating conditions, type 16 is suitable for crossings of telecommunication lines and proximities to them.

1.4 These covered conductors shall not be used for purpose other than over-head lines.

(Due to copyright issues, ZBS circulates the title and scope of the standard only, for full documents please visit ZBS office - Department of standardization).