EDC6 (3330) DTZS
IEC 62012-1:2002

DRAFT TANZANIA STANDARD

(Draft for comments only)

Multicore and symmetrical pair/quad cables for digital communications to be used in harsh environments - Part 1: Generic specification

TANZANIA BUREAU OF STANDARDS

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1 National Foreword

This draft Tanzania Standard is being prepared by the Telecommunications and Information Technology Technical Committee, under the supervision of the Electrotechnical divisional standards committee (EDC)

This draft Tanzania Standard is an adoption of the International Standard **IEC 62012-1:2002** Multicore and symmetrical pair/quad cables for digital communications to be used in harsh environments - Part 1: Generic specification, Which has been prepared by the International Electrotechnical Commission

2 Terminology and conventions

Some terminologies and certain conventions are not identical with those used in Tanzania standards; attention is drawn especially to the following: -

1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use “full point” on the baseline as the decimal marker.

2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”.

INTRODUCTION

The cables used for customer premises cabling or other IT cabling may have to work in harsh environments. This can be in case of fire but also due to conditions of installation in industrial plant. This standard will be supplemented by sectional specifications addressing a particular function as defined in 1.4. Detail specifications will refer to one or several sectional specifications depending upon the actual design of the cable.

MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES FOR DIGITAL COMMUNICATIONS TO BE USED IN HARSH ENVIRONMENTS –

Part 1: Generic specification

1 General

1.1 Scope

This part of IEC 62012 specifies the definitions and test methods, when used in harsh environment, of symmetrical pair and quad cables used in digital communication systems such as ISDN, local area networks and data communication systems. This standard gives guidance concerning the design and testing of these cables.

1.2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60028:1925, *International standard of resistance for copper*

IEC 60050(701), *International Electrotechnical Vocabulary (IEV) – Chapter 701: Telecommu-nications, channels and networks*

IEC 60050(704), *International Electrotechnical Vocabulary (IEV) – Chapter 704: Transmission*

IEC 60050(722), *International Electrotechnical Vocabulary (IEV) – Chapter 722: Telephony*

IEC 60068-2 (all parts), *Environmental testing – Part 2: Tests*

IEC 60189-1:1986, *Low -frequency cables and wires with PVC insulation and PVC sheath – Part 1: General test and measuring methods*

IEC 60304:1982, *Standard colours for insulation for low-frequency cables and wires*

IEC 60332-1:1993, *Tests on electric cables under fire conditions – Part 1: Test on a single vertical insulated wire or cable*

IEC 60332-2:1989, *Tests on electric cables under fire conditions – Part 2: Test on a single small vertical insulated copper wire or cable*

IEC 60332-3 (all parts), *Tests on electric cables under fire conditions – Part 3: Tests on bunched wires or cables*

IEC 60754-1, *Test on gases evolved during combustion of materials from cables – Part 1: Determination of the amount of halogen acid gas*