

TECHNICAL REPORT



Live working – Guidelines for the installation of transmission and distribution line conductors and earth wires – Stringing equipment and accessory items



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**Live working – Guidelines for the installation of transmission and distribution
line conductors and earth wires – Stringing equipment and accessory items**

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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms and definitions	7
4 Understanding the hazard – Basic theory	17
4.1 General.....	17
4.2 Electric field induction from nearby circuits	17
4.2.1 Overview	17
4.2.2 Induced voltage	18
4.2.3 Induced current.....	19
4.2.4 Electrostatic charging	20
4.3 Magnetic field induction from nearby circuits.....	20
4.3.1 Induced current.....	20
4.3.2 Induced voltage	21
4.4 Re-energization	22
4.5 Mechanical risk.....	22
5 Conductor stringing methods and equipment	23
5.1 General.....	23
5.2 Slack stringing method.....	23
5.3 Tension stringing method	25
5.4 Stringing equipment.....	34
5.4.1 General.....	34
5.4.2 Tensioners.....	34
5.4.3 Pullers	37
5.4.4 Reel winders.....	41
5.4.5 Reel stands	42
5.4.6 Pilot rope puller	43
5.4.7 Pilot rope, pulling rope	43
5.4.8 Woven wire grip	44
5.4.9 Stringing blocks	44
5.4.10 Stringing rollers	47
5.4.11 Stringing block earth	48
5.4.12 Running earth	49
5.4.13 Hold-down block	49
5.4.14 Conductor car	49
5.5 Communications	53
6 Special earthing requirements	53
6.1 General.....	53
6.2 Work site earthing systems	54
6.2.1 Overview	54
6.2.2 Use of earth rods	55
6.2.3 Equipment earths.....	56
6.2.4 Earths for conductor, earth wire, metallic and synthetic rope.....	56
6.2.5 Earths for earth mat, conductors or earth wires.....	56
6.2.6 Earths for mid-span joining of conductors or earth wires	56

6.2.7	Earths for clipping in the conductors or earth wires	57
6.2.8	Earths for installation of jumper loops for the conductor	57
6.2.9	Stringing block earths	57
6.2.10	Earth mat	57
6.3	General procedures and use of earthing systems	62
6.3.1	Overview	62
6.3.2	General procedures	62
6.3.3	Installation of the pilot or pulling rope	63
6.3.4	Stringing of conductors	64
6.3.5	Splicing of conductors	65
6.3.6	Sagging of conductors	66
6.3.7	Clipping-in conductors	67
6.3.8	Dead-ending and installation of jumper loops	67
6.3.9	Spacing	68
6.3.10	Special work on conductors	68
6.3.11	Fuelling	69
7	Testing of earthing devices	69
7.1	General	69
7.2	Number of type tests	70
7.3	Type test set-up	70
7.4	Type test acceptance criterion	70
	Bibliography	73
	Figure 1 – Electric field induction from nearby circuits – Induced voltage	18
	Figure 2 – Electric field induction from nearby circuits – Induced current	19
	Figure 3 – Magnetic field induction from nearby circuits – Induced current	21
	Figure 4 – Magnetic field induction from nearby circuits – Induced voltage	22
	Figure 5 – Slack stringing method	25
	Figure 6 – <i>Tension stringing</i> method	33
	Figure 7 – Bullwheel tensioners	37
	Figure 8 – Bullwheel pullers	41
	Figure 9 – Stringing blocks	47
	Figure 10 – Stringing rollers	48
	Figure 11 – Conductor cars	50
	Figure 12 – Earthing systems	62
	Figure 13 – Typical test set-up for stringing block earth	71
	Figure 14 – Typical test set-up for running earth	72

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIVE WORKING – GUIDELINES FOR THE INSTALLATION OF TRANSMISSION AND DISTRIBUTION LINE CONDUCTORS AND EARTH WIRES – STRINGING EQUIPMENT AND ACCESSORY ITEMS

FOREWORD

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IEC TR 61328, which is a Technical Report, has been prepared by IEC technical committee 78: Live working.

This third edition cancels and replaces the second edition published in 2003 and IEC TR 61911:2003. It incorporates some technical changes to update equipment work methods and procedures, bringing them in line with the state of the art.

The text of this Technical Report is based on the following documents:

Enquiry draft	Report on voting
78/1145/DTR	78/1174/RVDTR

Full information on the voting for the approval of this Technical Report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

Terms defined in Clause 3 are given in *italic* print throughout this standard.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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INTRODUCTION

With the increased difficulty of de-energizing existing overhead lines, installing *conductors* or *earth wire* in *circuits* nearby, or crossing these existing *circuits*, creates hazards requiring special considerations particularly with regard to earthing and bonding. It is also important to provide protections against induced static charge due to atmospheric conditions, lightning strikes, or accidental energization.

These potential electrical hazards demand that certain requirements be observed when choosing equipment and work methods for the protection of personnel or equipment.

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LIVE WORKING – GUIDELINES FOR THE INSTALLATION OF TRANSMISSION AND DISTRIBUTION LINE CONDUCTORS AND EARTH WIRES – STRINGING EQUIPMENT AND ACCESSORY ITEMS

1 Scope

This document, which is a Technical Report, provides recommendations for the selection and testing where necessary of *conductor stringing* equipment and accessory items used for the installation of bare and insulated overhead distribution *conductors*, bare overhead transmission *conductors* and overhead *earth wires*.

Procedures are recommended for proper earthing in order to protect equipment, components and personnel from currents which can result from accidental contact with nearby *energized conductors* or from the induced or *fault currents* which can result in some circumstances.

The items of equipment under consideration in this document are used for transmission and distribution systems.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60050-466, *International Electrotechnical Vocabulary – Chapter 466: Overhead lines* (available at www.electropedia.org)

IEC 60050-651, *International Electrotechnical Vocabulary – Part 651: Live working* (available at www.electropedia.org)

IEC 60743, *Live working – Terminology for tools, devices and equipment*

3 Terms and definitions

NOTE Terminology for equipment and procedures associated with the installation of overhead *conductors* and *earth wires* varies widely throughout the utility industry.

For the purposes of this document, the terms and definitions given in IEC 60050-466, IEC 60050-651, IEC 60743 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>