



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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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms, definitions and acronyms	7
3.1 Terms and definitions.....	7
3.2 Acronyms.....	15
4 Understanding the hazards – Basic theory.....	15
4.1 General.....	15
4.2 Electric field induction from nearby circuits	16
4.2.1 Overview	16
4.2.2 Induced voltage	16
4.2.3 Induced current	17
4.2.4 Electrostatic charging	18
4.3 Magnetic field induction from nearby circuits.....	18
4.3.1 Induced current	18
4.3.2 Induced voltage	20
4.4 Re-energization	20
4.5 Mechanical risk.....	21
5 Conductor stringing methods and equipment	21
5.1 General.....	21
5.2 Slack stringing method.....	22
5.3 Tension stringing method	24
5.4 Stringing equipment	32
5.4.1 General	32
5.4.2 Tensioners	32
5.4.3 Pullers	34
5.4.4 Reel winders.....	38
5.4.5 Reel stands	39
5.4.6 Pilot rope puller	41
5.4.7 Pilot rope and pulling rope	41
5.4.8 Woven wire grip.....	42
5.4.9 Stringing blocks	42
5.4.10 Stringing rollers	45
5.4.11 Stringing block earth.....	46
5.4.12 Running earth.....	47
5.4.13 Hold-down block	47
6 Special earthing applications	48
6.1 General.....	48
6.2 Earthing systems	49
6.2.1 Overview	49
6.2.2 Use of earth rods	49
6.2.3 Equipment earths	50
6.2.4 Earths for conductor, earth wire, metallic and synthetic rope	50
6.2.5 Earths for earth mat, conductors or earth wires.....	50
6.2.6 Earths for mid-span joining of conductors or earth wires.....	51

6.2.7	Earths for clipping in the conductors or earth wires.....	51
6.2.8	Earths for installation of jumper loops for the conductor.....	51
6.2.9	Stringing block earths	51
6.2.10	Earth mat.....	51
6.3	Procedures and application of <i>earthing systems</i>	56
6.3.1	Overview	56
6.3.2	Installation of the pilot or pulling rope	56
6.3.3	Stringing of conductors	57
6.3.4	Splicing of conductors	57
6.3.5	Sagging of conductors	57
6.3.6	Clipping-in conductors	57
6.3.7	Dead-ending and installation of jumper loops.....	58
6.3.8	Spacing	58
6.3.9	Special work on conductors	58
6.3.10	Fuelling	58
	Bibliography.....	59
	Figure 1 – Electric field induction from nearby circuits – Induced voltage	17
	Figure 2 – Electric field induction from nearby circuits – Induced current	18
	Figure 3 – Magnetic field induction from nearby circuits – Induced current.....	19
	Figure 4 – Magnetic field induction from nearby circuits – Induced voltage	20
	Figure 5 – Slack stringing method	24
	Figure 6 – Tension stringing method	31
	Figure 7 – Bullwheel tensioners	34
	Figure 8 – Bullwheel pullers	37
	Figure 9 – Reel winder.....	39
	Figure 10 – Reel stand and carrier	40
	Figure 11 – Stringing blocks.....	45
	Figure 12 – Stringing rollers.....	46
	Figure 13 – Hold-down block diagram of use.....	48
	Figure 14 – Earthing systems.....	56

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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

This fourth edition cancels and replaces the third edition published in 2017. It incorporates some technical changes to update equipment work methods and procedures, bringing them in line with the state of the art. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Keeping the content of the previous edition but without mandatory terms as required by IEC ISO Directives 2 for a Technical Report.

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

Draft	Report on voting
78/1455/DTR	78/1475/RVDTR

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Technical Report is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

In this document, the following print types are used:

- Terms defined in Clause 3 are given in *italic* font.

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- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

This document discusses general tensions, *stringing* methods of transmission and distribution line *conductors*. Special attention is given to the equipment involved, such as *tensioners*, *pullers*, grips, *blocks* and rollers. Due to the hazards involved in *stringing* near *energized* lines, the general concepts of electric and magnetic induction are presented along with safe application methods of earthing equipment.

The overall intent of this document is to provide state of the art methods in an informative manner, recognizing that there are several procedural variations within the industry. There are also multiple standards and regulatory jurisdictions which prescribe methods and requirements beyond the scope of this document.

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 information for the selection of *conductor stringing, earthing* and *bonding* equipment used for the installation of bare and insulated overhead distribution *conductors*, as well as overhead transmission *conductors* and overhead *earth wires*.

Procedures are given for installation and maintenance of distribution and transmission conductors. A discussion of electric hazards is provided as well as relevant *earthing* and *bonding* techniques.

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 60050-466:1990, *International Electrotechnical Vocabulary (IEV) – Part 466: Overhead lines* (available at www.electropedia.org)

IEC 60050-651:2014, *International Electrotechnical Vocabulary (IEV) – Part 651: Live working* (available at www.electropedia.org)

IEC 60743:2013, *Live working – Terminology for tools, devices and equipment*