

INTERNATIONAL STANDARD

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Live working –

**Flexible conductor covers (line hoses)
of insulating material**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIVE WORKING –**FLEXIBLE CONDUCTOR COVERS (LINE HOSES)
OF INSULATING MATERIAL****FOREWORD**

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International Standard IEC 61479 has been prepared by IEC technical committee 78: Live working.

This consolidated version of IEC 61479 consists of the first edition (2001) [documents 78/350/FDIS and 78/363/RVD] and its amendment 1 (2002) [documents 78/428/FDIS and 78/454/RVD].

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience.

It bears the edition number 1.1.

A vertical line in the margin shows where the base publication has been modified by amendment 1.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

Annexes A, B, C, and D form an integral part of this standard.

Annexes E, F and G are for information only.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until 2005. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

LIVE WORKING – FLEXIBLE CONDUCTOR COVERS (LINE HOSES) OF INSULATING MATERIAL

1 Scope

This International Standard is applicable to flexible insulating covers (line hoses) for the protection of workers from accidental contact with live or earthed electrical conductors and for the avoidance of short circuits during live working.

1.1 Classes

Five classes of conductor covers, differing in electrical characteristics, are provided and designated as class 0, class 1, class 2, class 3, and class 4.

1.2 Categories

Six categories of conductor covers differing in composition and properties are provided: category A – acid resistant, category H – oil resistant, category C – formulated for extreme low temperature environments, category W – formulated for extreme high temperature environments, category Z – ozone resistant, and category P – formulated for humid environment.

NOTE Types II and III material of ASTM D-1050 would be category Z.

1.3 Styles

Various styles of conductor covers, differing in construction characteristics are available and six of these are designated as style A, style B, style C, style D, style E, (see figure 1), and style F.

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 60050(151):1978, *International Electrotechnical Vocabulary (IEV) – Chapter 151: Electrical and magnetic devices*

IEC 60050(212):1990, *International Electrotechnical Vocabulary (IEV) – Chapter 212: Insulating solids, liquids and gases*

IEC 60050(601):1985, *International Electrotechnical Vocabulary (IEV) – Chapter 601: Generation, transmission and distribution of electricity – General*

IEC 60050(651):1999, *International Electrotechnical Vocabulary (IEV) – Chapter 651: Live working*

IEC 60060-1:1989, *High-voltage test techniques – Part 1: General definitions and test requirements*

IEC 60060-2:1994, *High-voltage test techniques – Part 2: Measuring systems*

IEC 60212:1971, *Standard conditions for use prior to and during the testing of solid electrical insulating materials*

IEC 60417 (all parts), *Graphical symbols for use on equipment*

IEC 61318:1994, *Live working – Guidelines for quality assurance plans*

ISO 472:1999, *Plastics – Vocabulary*

ISO 1817:1999, *Rubber, vulcanized – Determination of the effect of liquids*

ISO 2592:2000, *Determination of flash and fire points – Cleveland open cup method*

ISO 2859-1:1999, *Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 2977:1997, *Petroleum products and hydrocarbon solvents – Determination of aniline point and mixed aniline point*

ISO 3104:1994, *Petroleum products – Transparent and opaque liquids – Determination of kinematic viscosity and calculation of dynamic viscosity*

ISO 9001:1994, *Quality systems – Model for quality assurance in design, development, production, installation and servicing*

ISO 9002:1994, *Quality systems – Model for quality assurance in production, installation and servicing*

ISO 9003:1994, *Quality systems – Model for quality assurance in final inspection and test*