

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Powertrack systems –

Part 22: Particular requirements for powertrack systems intended for onfloor or underfloor installation

Systèmes de conducteurs préfabriqués –

Partie 22: Exigences particulières pour les systèmes de conducteurs préfabriqués destinés au montage sur le sol ou sous le sol



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

POWERTRACK SYSTEMS –

Part 22: Particular requirements for powertrack systems intended for onfloor or underfloor installation

FOREWORD

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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 61534-22 edition 2.1 contains the second edition (2014-06) [documents 23A/102/EDIS and 23A/708/RVD] and its amendment 1 (2021-07) [documents 23A/927/CDV and 23A/940/RVC].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 61534-22 has been prepared by subcommittee 23A: Cable management systems, of IEC Technical Committee 23: Electrical accessories.

This second edition constitutes a technical revision.

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

- Clauses 18 to 22 have been adapted to IEC 61534-1:2011 and include short-circuit test requirements;
- addition of a new (500 N) classification for the resistance to traffic load applied to small surface areas on a flushfloor service unit;
- addition of a new classification for the non-automatic closing of the lid on flushfloor service units and appropriate tests;
- addition of tests for floor service units declared for use when a floor is wet-treated.

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

This standard is to be used in conjunction with IEC 61534-1:2011 *Powertrack systems – Part 1: General requirements*.

This Part 22 supplements or modifies the corresponding clauses of IEC 61534-1. Where a particular clause or subclause of IEC 61534-1:2011 is not mentioned in this Part 22, that clause or subclause applies as far as is reasonable. Where this Part 22 states "addition" or "replacement", the relevant text of IEC 61534-1:2011 is to be adapted accordingly.

Subclauses, tables and figures which are in addition to those in IEC 61534-1:2011 are numbered starting with 101.

A list of all parts of IEC 61534 series, published under the general title *Powertrack systems*, can be found on the IEC website.

The following differences exist in the countries indicated below:

Subclause 7.105.2: In the United Kingdom, this classification is not permitted.

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

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1 Scope

Clause 1 of IEC 61534-1:2011 and IEC 61534-1:2011/AMD1:2014 is applicable except as follows:

1.1 Addition:

This part of IEC 61534 specifies the particular requirements and tests for PT systems intended for mounting on, or under the floor level and floor service units which are mounted on the floor, under the floor or flush with the floor.

NOTE 1 Types and applications are shown in Figures AA.1a, AA.1b and AA.2

NOTE 2 Flushfloor PT systems, with the exception of flushfloor service units, are not covered by this standard.

2 Normative references

Clause 2 of IEC 61534-1:2011 is applicable except as follows:

Addition:

IEC 61534-1:2011, *Powertrack systems – Part 1: General requirements*
IEC 61534-1:2011/AMD1:2014
IEC 61534-1:2011/AMD2:2020

3 Terms and definitions

Clause 3 of IEC 61534-1:2011 ~~and~~ Clause 3 of IEC 61534-1:2011/AMD1:2014 and Clause 3 of IEC 61534-1:2011/AMD2:2020 ~~is~~ are applicable except as follows:

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>

Additional terms and definitions:

3.101

Underfloor PT system

PT system whose components, except flushfloor service units, are intended for installation beneath the finished floor and in normal use are not exposed to traffic loads

Examples are shown in Figures AA.1a and AA.1b

3.102

onfloor PT system

PT system whose components are mounted on the floor surface