

INTERNATIONAL STANDARD

**Cable management systems –
Specifications for extra-heavy-duty electrical steel conduit fittings and
accessories**





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CABLE MANAGEMENT SYSTEMS – SPECIFICATIONS FOR EXTRA-HEAVY-DUTY ELECTRICAL STEEL CONDUIT FITTINGS AND ACCESSORIES

FOREWORD

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International Standard IEC 61950 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories.

This third edition cancels and replaces the second edition published in 2007. This edition constitutes a technical revision.

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

- change in title and scope to cover only fittings and accessories for use with extra-heavy-duty electrical rigid steel (EHDERS) conduits;
- new and updated definitions of terms;
- addition of requirements for expansion, expansion-deflection and deflection fittings;
- deletion of requirements for cast metal boxes.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
23A/887/FDIS	23A/890/RVD

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

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

In this standard, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- explanatory matter: in smaller roman type.

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

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- withdrawn,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

A bilingual version of this publication may be issued at a later date.

CABLE MANAGEMENT SYSTEMS – SPECIFICATIONS FOR EXTRA-HEAVY-DUTY ELECTRICAL STEEL CONDUIT FITTINGS AND ACCESSORIES

1 Scope

This document specifies requirements for conduit fittings, including conduit bodies used with extra-heavy-duty electrical rigid steel (EHDERS) conduit conforming to IEC 60981.

This document does not include requirements for fittings intended for installation in potentially explosive atmospheres.

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 60981:2019, *Extra heavy-duty electrical rigid steel conduits*

ISO 68-2, *ISO general purpose screw threads – Basic profile – Part 2: Inch screw threads*

ISO 263, *ISO inch screw threads – General plan and selection for screws, bolts and nuts – Diameter range 0,06 to 6 in*

ISO 301, *Zinc alloy ingots intended for castings*

ISO 5864, *ISO inch screw threads – Allowances and tolerances*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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>

3.1

angle fitting

fitting with or without a cover (or cap) intended to change the direction of the conduit entering a box or an enclosure

3.2

box

enclosure without a cover but with means for mounting a cover, and provision for the entrance of conduit and cable fittings