IEC 60966-4-1

Edition 3.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Radio frequency and coaxial cable assemblies – Part 4-1: Blank detail specification for semi-rigid coaxial cable assemblies

Cordons coaxiaux et cordons pour fréquences radioélectriques – Partie 4-1 : Spécification particulière-cadre pour cordons coaxiaux semi-rigides



IEC 60966-4-1:2024-03(en-fr)



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

Part 4-1: Blank detail specification for semi-rigid coaxial cable assemblies

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IEC 60966-4-1 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

This third edition cancels and replaces the second edition published in 2003. This edition constitutes a technical revision.

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

a) added Clause 1 "Scope";
b) added Clause 2 "Normative reference";
c) rewrote Clause 4 "Instructions";

d) added "[6] Outline for semi-rigid cable assemblies", "[7] The relative position dimensions of the interface", "[8] Maximum diameter of semi-flexible cable";

e) added "Corona extinction voltage";

f) modified "[19] Value", "[20] Remark".

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

Draft	Report on voting
46/965/FDIS	46/995/RVD

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 International Standard 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.

A list of all parts in the IEC 60966, published under the general title *Radio frequency and coaxial cable assemblies*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn, or
- revised.

RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

Part 4-1: Blank detail specification for semi-rigid coaxial cable assemblies

1 Scope

This part of IEC 60966 is a blank detail specification that relates to semi-rigid coaxial cable assemblies operating in the transverse electromagnetic mode (TEM).

The creation of a uniform layout and style of detail specifications is determined by the use of a blank detail specification pro forma. The detail specification may be prepared by a national organization, a manufacturer, or a user.

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 60068 (all parts), *Environmental testing*

IEC 60966-1:2019, *Radio frequency and coaxial cable assemblies – Part 1: Generic specification – General requirements and test methods*

IEC 60966-4:2024, *Radio frequency and coaxial cable assemblies – Part 4: Sectional specification for semi-rigid coaxial cable assemblies*

IEC 61196-1-126, *Coaxial communication cables – Part 1-126: Electrical test methods – Corona extinction voltage*

3 Terms and definitions

No terms and definitions are listed in this document.

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

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

4 Instructions

Instructions to complete a blank detail specification detail specifications shall, as far as possible, be written in accordance with the pro forma which has:

a) a front page with a general description and a drawing or isometric sketch of the cable assembly and its possible variants;

b) ratings, characteristics and inspection requirements (those which are not required or specified shall be omitted).