

STN	Súbory vysokofrekvenčných a koaxiálnych káblov Časť 4: Rámcová špecifikácia súborov polotuhých koaxiálnych káblov	STN EN IEC 60966-4 34 7720
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Radio frequency and coaxial cable assemblies - Part 4: Sectional specification for semi-rigid coaxial cable assemblies

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/24

Obsahuje: EN IEC 60966-4:2024, IEC 60966-4:2024

Oznámením tejto normy sa od 16.04.2027 ruší
STN EN 60966-4 (34 7720) z mája 2004

138752

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

EN IEC 60966-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2024

ICS 33.120.10

Supersedes EN 60966-4:2003

English Version

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

Cordons coaxiaux et cordons pour fréquences
radioélectriques - Partie 4 : Spécification intermédiaire pour
cordons coaxiaux semi-rigides
(IEC 60966-4:2024)

Konfektionierte Koaxial- und Hochfrequenzkabel - Teil 4:
Rahmenspezifikation für halbstarre konfektionierte
Koaxialkabel
(IEC 60966-4:2024)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60966-4:2024 (E)**European foreword**

The text of document 46/964/FDIS, future edition 3 of IEC 60966-4, prepared by IEC/TC 46 "Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60966-4:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-01-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-04-16

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-1	2013	Environmental testing - Part 1: General and guidance	EN 60068-1	2014
IEC 60966-1	2019	Radio frequency and coaxial cable assemblies - Part 1: Generic specification - General requirements and test methods	EN IEC 60966-1	2019
IEC 61169	series	Radio-frequency connectors	EN IEC 61169	series
IEC 61196-1-126	-	Coaxial communication cables - Part 1-126: Electrical test methods - Corona extinction voltage	-	-
IEC 61196-10	-	Coaxial communication cables - Part 10: Sectional specification for semi-rigid cables with fluoropolymer dielectric	EN 61196-10	-
IEC 61196-11	-	Coaxial communication cables - Part 11: Sectional specification for semi-rigid cables with polyethylene (PE) dielectric	-	-



IEC 60966-4

Edition 3.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Cordons coaxiaux et cordons pour fréquences radioélectriques –
Partie 4 : Spécification intermédiaire pour cordons coaxiaux semi-rigides**





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IEC 60966-4

Edition 3.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Cordons coaxiaux et cordons pour fréquences radioélectriques –
Partie 4 : Spécification intermédiaire pour cordons coaxiaux semi-rigides**

INTERNATIONAL
ELECTROTECHNICAL
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INTERNATIONALE

ICS 33.120.10

ISBN 978-2-8322-8408-7

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –**Part 4: Sectional specification for semi-rigid coaxial cable assemblies**

FOREWORD

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IEC 60966-4 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 Subclause 4.3 "The relative position dimensions of the interface";
- b) added Figure 2;
- c) added Clause 6 "IEC type designation";
- d) modified Figure 3;

- e) added Clause 7 "Rating and characteristics";
- f) added "Requirements/Remarks" to all the tests in Clause 8;
- g) added "Corona extinction voltage" in Table 3;
- h) rewrote test schedules;
- i) added Annex A and Annex B.

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

Draft	Report on voting
46/964/FDIS	46/994/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: Sectional specification for semi-rigid coaxial cable assemblies

1 Scope

This part of IEC 60966 is a sectional specification that relates to semi-rigid coaxial cable assemblies operating in the transverse electromagnetic mode (TEM). It specifies the design and construction, IEC type designation, workmanship, marking and packaging, standard rating and characteristics, electrical, mechanical and environmental requirements of finished semi-rigid cable assemblies, quality assessment, delivery and storage, etc.

This part of IEC 60966 applies to semi-rigid cable assemblies composed of semi-rigid coaxial cables and coaxial connectors. Semi-rigid cable assemblies are widely used in mobile communication systems, microwave test equipment, radar, aerospace and other fields.

NOTE 1 For the purpose of this sectional specification, a cable assembly is always regarded as an integral unit. All specifications apply to the finished assembly and not to individual and non-assembled parts thereof.

NOTE 2 This sectional specification can be supplemented with detail specifications giving additional details as required by the particular application. This application will not necessarily require all tests.

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 60068-1:2013, *Environmental testing – Part 1: General and guidance*

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

IEC 61169 (all parts), *Radio frequency connectors*

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

IEC 61196-10, *Coaxial communication cables – Part 10: Sectional specification for semi-rigid cables with fluoropolymer dielectric*

IEC 61196-11, *Coaxial communication cables – Part 11: Sectional specification for semi-rigid cables with polyethylene (PE) dielectric*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN