

STN	Súbory vysokofrekvenčných a koaxiálnych káblov Časť 2-8: Podrobná špecifikácia súborov káblov pre rozhlasové a televízne prijímače Rozsah frekvencie do 3 000 MHz, trieda tienenia A++, konektory podľa IEC 61169-47	STN EN IEC 60966-2-8 34 7720
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Radio frequency and coaxial cable assemblies - Part 2-8: Detail specification for cable assemblies for radio and TV receivers - Frequency range up to 3 000 MHz, screening class A++, IEC 61169-47 connectors

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. 03/26

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EUROPEAN STANDARD

EN IEC 60966-2-8

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Radio frequency and coaxial cable assemblies - Part 2-8: Detail specification for cable assemblies for radio and TV receivers - Frequency range up to 3 000 MHz, screening class A++, IEC 61169-47 connectors (IEC 60966-2-8:2025)

Cordons coaxiaux et cordons pour fréquences radioélectriques - Partie 2-8: Spécification particulière pour cordons de connexion de récepteurs radio ou TV - Plage de fréquences jusqu'à 3000 MHz, Classe d'écrantage A++, connecteurs IEC 61169-47 (IEC 60966-2-8:2025)

Konfektionierte Koaxial- und Hochfrequenzkabel - Teil 2-8: Bauartspezifikation für konfektionierte Kabel für Rundfunk- und Fernsehempfänger - Frequenzbereich 0 MHz bis 3 000 MHz, Schirmungsklasse A++, Steckverbinder nach IEC 61169-47 (IEC 60966-2-8:2025)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 60966-2-8:2025 (E)**European foreword**

The text of document 46/1023/CDV, future edition 2 of IEC 60966-2-8, prepared by 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 60966-2-8:2025.

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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 60966-1	2019	Radio frequency and coaxial cable assemblies - Part 1: Generic specification - General requirements and test methods	EN IEC 60966-1	2019
IEC 60966-2-1	-	Radio frequency and coaxial cable assemblies - Part 2-1: Sectional specification for flexible coaxial cable assemblies	EN IEC 60966-2-1	-
IEC 60966-2-2	-	Radio frequency and coaxial cable assemblies - Part 2-2: Blank detail specification for flexible coaxial cable assemblies	EN IEC 60966-2-2	-
IEC 61169-47	-	Radio-frequency connectors - Part 47: Sectional specification for radio-frequency coaxial connectors with clamp coupling, typically for use in 75 - cable networks (type F-Quick)	EN 61169-47	-
IEC 61196-1-101	-	Coaxial communication cables - Part 1-101: Electrical test methods - Test for conductor d.c. resistance of cable	-	-
IEC 61196-6-5	2020	Coaxial communication cables - Part 6-5: Detail specification for Type A quad-shield CATV drop cables with screening class A++	-	-
IEC 62153-4-7	-	Metallic cables and other passive components test methods - Part 4-7: Electromagnetic compatibility (EMC) -Test method for measuring of transfer impedance Z_T and screening attenuation a_s or coupling attenuation a_c of connectors and assemblies - Triaxial tube in tube method	EN IEC 62153-4-7	-



IEC 60966-2-8

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio frequency and coaxial cable assemblies -
Part 2-8: Detail specification for cable assemblies for radio and TV receivers -
Frequency range up to 3 000 MHz, screening class A++, IEC 61169-47
connectors**

**Cordons coaxiaux et cordons pour fréquences radioélectriques -
Partie 2-8: Spécification particulière pour cordons de connexion de récepteurs
radio ou TV - Plage de fréquences jusqu'à 3 000 MHz, classe d'écrantage A++,
connecteurs IEC 61169-47**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Radio frequency and coaxial cable assemblies -
Part 2-8: Detail specification for cable assemblies for radio and
TV receivers - Frequency range up to 3 000 MHz, screening class A++,
IEC 61169-47 connectors**

FOREWORD

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IEC 60966-2-8 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 second edition cancels and replaces the first edition published in 2022. This edition constitutes a technical revision.

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

- a) in item [5], drawing expanded by right angled connectors;
- b) in item [12], female F-connectors cancelled (not standardized by IEC 61169-47);

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- c) in item [14] Reflection properties (return loss): different values for straight and right-angled connectors;
- d) in item [14] Insertion loss: different factors for insertion loss calculation for straight and right-angled connectors;
- e) in item [14] Loop resistance: loop resistance was set to 1 Ω max. value for the complete length.

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

Draft	Report on voting
46/1023/CDV	46/1050/RVC

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 series, 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.

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INTRODUCTION

This part of IEC 60966 is a detail specification that applies to cable assemblies with F-Quick connectors (see IEC 61169-47) and requires quad-shield screening class A++ (see IEC 61196-6-5).

This detail specification gives subfamily requirements and severities which are applied.

The qualification is conducted in accordance with IEC 60966-2-1. Once one variant obtains qualification approval, the other variant can obtain qualification approval by conducting tests whose results could depend on the variants, for example reflection properties, insertion loss, etc.

1 Scope

This part of IEC 60966 is a detail specification that applies to cable assemblies with F-Quick connectors (see IEC 61169-47) and requires quad-shield screening class A++ (see IEC 61196-6-5). This document applies to the cable assemblies for radio and TV receivers.

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

IEC 60966-2-1, *Radio frequency and coaxial cable assemblies - Part 2-1: Sectional specification for flexible coaxial cable assemblies*

IEC 60966-2-2, *Radio frequency and coaxial cable assemblies - Part 2-2: Blank detail specification for flexible coaxial cable assemblies*

IEC 61169-47, *Radio-frequency connectors - Part 47: Sectional specification for radio-frequency coaxial connectors with clamp coupling, typically for use in 75 Ω cable networks (type F-Quick)*

IEC 61196-1-101, *Coaxial communication cables - Part 1-101: Electrical test methods - Test for conductor DC resistance of cable*

IEC 61196-6-5:2020, *Coaxial communication cables - Part 6-5: Detail specification for Type A quad-shield CATV drop cables with screening class A++*

IEC 62153-4-7, *Metallic cables and other passive components test methods - Part 4-7: Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance Z_T and screening attenuation a_S or coupling attenuation a_C of connectors and assemblies - Triaxial tube in tube method*

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