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Radio frequency and coaxial cable assemblies - Part 1: Generic specification - General requirements and test methods (IEC 60966-1:2019)

Konfektionierte Koaxial- und Hochfrequenzkabel - Teil 1: Fachgrundspezifikation - Allgemeine Anforderungen und Prüfverfahren (IEC 60966-1:2019)

Ensembles de cordons coaxiaux et de cordons pour fréquences radioélectriques - Partie 1: Spécification générique - Généralités et méthodes d'essai (IEC 60966-1:2019)

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Radio frequency and coaxial cable assemblies - Part 1: Generic specification - General requirements and test methods (IEC 60966-1:2019)

Cordons coaxiaux et cordons pour fréquences radioélectriques - Partie 1: Spécification générique - Exigences générales et méthodes d'essai
(IEC 60966-1:2019)

Konfektionierte Koaxial- und Hochfrequenzkabel - Teil 1: Fachgrundspezifikation - Allgemeine Anforderungen und Prüfverfahren
(IEC 60966-1:2019)

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Comité Européen de Normalisation Electrotechnique
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EN IEC 60966-1:2019 (E)**European foreword**

The text of document 46/700A/FDIS, future edition 3 of IEC 60966-1, 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 60966-1:2019.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2019-12-15
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-03-15

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60339 (series)	NOTE	Harmonized as HD 350.1 S1 (series)
ISO 9000	NOTE	Harmonized as EN ISO 9000
ISO 9001:2015	NOTE	Harmonized as EN ISO 9001:2015 (not modified)

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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068	series	Environmental testing	EN 60068	series
IEC 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 60068-2-11	-	Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist	EN 60068-2-11	-
IEC 60068-2-14	-	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	-
IEC 60068-2-27	-	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	-
IEC 60068-2-42	-	Environmental testing - Part 2-42: Tests - Test Kc: Sulphur dioxide test for contacts and connections	EN 60068-2-42	-
IEC 60068-2-68	-	Environmental testing - Part 2-68: Tests - Test L: Dust and sand	EN 60068-2-68	-
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-
IEC 60332-1-2	2004	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame	EN 60332-1-2	2004
-	-		+ A11	2016
IEC 60512-6-2	-	Connectors for electronic equipment - Tests and measurements - Part 6-2: Dynamic stress tests - Test 6b: Bump	EN 60512-6-2	-
IEC 60512-7-2	-	Connectors for electronic equipment - Tests and measurements - Part 7-2: Impact tests (free components) - Test 7b: Mechanical strength impact	EN 60512-7-2	-
IEC 60529	-	Classification of degrees of protection - provided by enclosures	-	-

EN IEC 60966-1:2019 (E)

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IEC 60966-2	series	Radio frequency and coaxial cable assemblies	EN 60966-2	series
IEC 60966-3	series	Radio frequency and coaxial cable assemblies	EN 60966-3	series
IEC 60966-4	series	Radio frequency and coaxial cable assemblies	EN 60966-4	series
IEC 61169	series	Radio frequency connectors	EN 61169	series
IEC 61169-1	2013	Radio frequency connectors - Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	2013
IEC 61196	series	Coaxial communication cables	-	series
IEC 61196-1-119	-	Coaxial communication cables - Part 1-119: Electrical test methods - RF power rating	-	-
IEC 62037-2	-	Passive RF and microwave devices, intermodulation level measurement - Part 2: Measurement of passive intermodulation in coaxial cable assemblies	EN 62037-2	-
IEC 62153-4-6	-	Metallic cables and other passive components test methods - Part 4-6: Electromagnetic compatibility (EMC) - Surface transfer impedance - line injection method	-	-
IEC 62153-4-7	2015	Metallic communication cable 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 up to and above 3 GHz - Triaxial tube in tube method	EN 62153-4-7	2016



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**Radio frequency and coaxial cable assemblies –
Part 1: Generic specification – General requirements and test methods**

**Cordons coaxiaux et cordons pour fréquences radioélectriques –
Partie 1: Spécification générique – Exigences générales et méthodes d'essai**

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CONTENTS

FOREWORD.....	7
1 Scope.....	9
2 Normative references	9
3 Terms and definitions	10
4 Design and manufacturing requirements.....	12
4.1 Cable design and construction	12
4.2 Connector design and construction	12
4.3 Outline and interface dimensions	13
5 Workmanship, marking and packaging.....	13
5.1 Workmanship.....	13
5.2 Marking.....	13
5.3 End caps.....	13
5.4 Packaging and labelling	13
6 Quality management.....	13
7 Test methods – General	13
7.1 Standard atmospheric conditions for testing.....	13
7.2 Visual inspection.....	14
7.3 Dimensions inspection	14
7.3.1 Interface dimensions	14
7.3.2 Outline dimensions	14
8 Electrical tests	15
8.1 Reflection properties.....	15
8.1.1 Object.....	15
8.1.2 Test equipment.....	15
8.1.3 Procedure.....	15
8.1.4 Requirements	16
8.1.5 Information to be given in the detail specification.....	16
8.2 Uniformity of impedance	16
8.2.1 Object.....	16
8.2.2 Procedure.....	16
8.2.3 Requirements	16
8.2.4 Information to be given in the detail specification.....	16
8.3 Insertion loss	16
8.3.1 Procedure.....	16
8.3.2 Requirements	16
8.3.3 Information to be given in the detail specification.....	16
8.4 Insertion loss stability	17
8.4.1 Object.....	17
8.4.2 Procedure.....	17
8.4.3 Requirements	17
8.4.4 Information to be given in the detail specification.....	17
8.5 Propagation time.....	17
8.5.1 Procedure.....	17
8.5.2 Requirements	17
8.5.3 Information to be given in the detail specification.....	17

8.6	Stability of electrical length	17
8.6.1	Object.....	17
8.6.2	Procedures	17
8.6.3	Requirements	19
8.6.4	Information to be given in the detail specification.....	19
8.7	Phase difference.....	19
8.7.1	Object.....	19
8.7.2	Procedure.....	19
8.7.3	Requirements	19
8.7.4	Information to be given in the detail specification.....	20
8.8	Phase variation with temperature	20
8.8.1	Object.....	20
8.8.2	Procedure.....	20
8.8.3	Requirements	20
8.8.4	Information to be given in the detail specification.....	20
8.9	Screening effectiveness	20
8.9.1	Transfer impedance	20
8.9.2	Screening attenuation.....	20
8.10	Voltage proof	21
8.10.1	Procedure.....	21
8.10.2	Requirements	21
8.10.3	Information to be given in the detail specification.....	21
8.11	Insulation resistance	21
8.11.1	Procedure.....	21
8.11.2	Requirements	21
8.11.3	Information to be given in the detail specification.....	21
8.12	Inner and outer conductor continuity	22
8.12.1	Object.....	22
8.12.2	Procedure.....	22
8.12.3	Requirements	22
8.12.4	Information to be given in the detail specification.....	22
8.13	Power rating	22
8.13.1	Object.....	22
8.13.2	Procedure.....	22
8.13.3	Requirements	22
8.13.4	Information to be given in the detail specification.....	22
8.14	Intermodulation level measurement.....	23
8.14.1	Procedure.....	23
8.14.2	Requirements	23
8.14.3	Information to be given in the detail specification.....	23
9	Mechanical robustness tests.....	23
9.1	Tensile.....	23
9.1.1	Object.....	23
9.1.2	Procedure.....	23
9.1.3	Requirements	23
9.1.4	Information to be given in the detail specification.....	23
9.2	Flexure	24
9.2.1	Object.....	24
9.2.2	Procedure.....	24

9.2.3	Requirements	24
9.2.4	Information to be given in the detail specification	24
9.3	Flexing endurance	24
9.3.1	Object	24
9.3.2	Procedure	25
9.3.3	Requirements	25
9.3.4	Information to be given in the detail specification	25
9.4	Cable assembly crushing	25
9.4.1	Object	25
9.4.2	Procedure	25
9.4.3	Requirements	26
9.4.4	Information to be given in the detail specification	26
9.5	Torque	26
9.5.1	Procedure	26
9.5.2	Requirements	27
9.5.3	Information to be given in the detail specification	27
9.6	Multiple bending	27
9.6.1	Object	27
9.6.2	Procedure	27
9.6.3	Requirements	28
9.6.4	Information to be given in the detail specification	28
9.7	Abrasion test of cable assembly	28
9.7.1	Object	28
9.7.2	Procedure	28
9.8	Vibrations, shocks	28
9.9	Impact test	28
9.10	Mechanical endurance	28
10	Environmental tests	29
10.1	Recommended severities	29
10.2	Vibration, bumps and shock	29
10.3	Climatic sequence	29
10.3.1	Procedure	29
10.3.2	Requirements	29
10.3.3	Information to be given in the detail specification	29
10.4	Damp heat, steady state	29
10.4.1	Procedure	29
10.4.2	Requirements	29
10.4.3	Information to be given in the detail specification	30
10.5	Rapid change of temperature	30
10.5.1	Procedure	30
10.5.2	Requirements	30
10.5.3	Information to be given in the detail specification	30
10.6	Resistance to solvents and contaminating fluids	30
10.6.1	Procedure	30
10.6.2	Requirements	30
10.6.3	Information to be given in the detail specification	31
10.7	Water immersion	31
10.7.1	Procedure	31
10.7.2	Requirements	31

10.7.3	Information to be given in the detail specification	31
10.8	Salt mist and sulphur dioxide tests	31
10.8.1	Procedure	31
10.8.2	Requirements	31
10.8.3	Information to be given in the detail specification	31
10.9	Dust tests	31
10.9.1	Object	31
10.9.2	Procedure	31
10.9.3	Requirements	32
10.9.4	Information to be given in the detail specification	32
10.10	Flammability	32
10.10.1	Procedure	32
10.10.2	Requirements	32
10.10.3	Information to be given in the detail specification	32
11	Specialized test methods	32
12	Test schedules	32
Annex A	(normative) Test methods for insertion loss determination	33
A.1	Purpose	33
A.2	Test methods	33
A.2.1	General	33
A.2.2	Test method 1	33
A.2.3	Test method 2	34
A.2.4	Test method 3	36
A.3	Correction for characteristic impedance differences	37
Annex B	(informative) Measuring methods for propagation time	39
B.1	General	39
B.2	Resonance method for propagation time measurement	39
B.3	Time domain method for propagation time measurement	40
Annex C	(informative) Recommended severities for environmental tests	41
C.1	Introduction to the relationship between environmental conditions and severities of testing	41
C.1.1	General	41
C.1.2	Environmental conditions	41
C.1.3	Environmental testing	41
C.2	Recommended severities for environmental tests	42
C.2.1	Vibration	42
C.2.2	Bump	43
C.2.3	Shock	43
C.2.4	Climatic sequence	43
C.2.5	Damp heat, steady state	44
C.2.6	Rapid change of temperature	44
C.2.7	Salt mist	44
C.2.8	Sulphur dioxide test	44
C.2.9	Dust test	44
Annex D	(normative) Quality management	45
D.1	General	45
D.2	Object	45
D.3	Basic aspects	45

D.3.1	Related documents	45
D.3.2	Standards and preferred values	45
D.3.3	Marking of the cable assembly and packaging (see 5.2)	45
D.3.4	Terminology.....	46
D.4	Quality management procedures.....	46
D.4.1	Procedures for qualification approval.....	46
D.4.2	Procedures for capability approval.....	47
D.4.3	Quality conformance inspection	48
D.5	Capability manual and approval	49
D.5.1	Responsibilities	49
D.5.2	Contents of the capability manual	49
D.5.3	Criteria for capability limits	50
	Bibliography.....	53
Figure 1	– Bending test: U shape assembly	18
Figure 2	– Bending test: straight assembly.....	18
Figure 3	– Twisting test: U shape assembly	19
Figure 4	– Fixture for cable assembly flexure test	24
Figure 5	– Apparatus for cable assembly flexing endurance test	25
Figure 6	– Fixture for cable crushing test	26
Figure 7	– Example of test fixture for torque	27
Figure 8	– Multiple bending test	28
Figure A.1	– Circuit for the determination of insertion loss	33
Figure A.2	– Circuit for the determination of insertion loss – principle	35
Figure A.3	– Alternative circuit for the determination of insertion loss	35
Figure A.4	– Double-pass circuit for the determination of insertion loss.....	36
Figure B.1	– Arrangement of test equipment	39
Figure C.1	– Description of action needed for the preparation of the environmental test specification.....	42
Table 1	– Standard range of atmospheric conditions	14
Table C.1	– Relationship between displacement and acceleration.....	43
Table C.2	– Relationship between peak acceleration and velocity change.....	43
Table D.1	– Example of capability limits for cable assemblies	51
Table D.2	– Example of capability limits for flexible cables.....	51
Table D.3	– Example of capability limits for connectors.....	51
Table D.4	– Example of flow chart (see D.5.2.5)	52

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

Part 1: Generic specification – General requirements and test methods

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60966-1 has been prepared by technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

This third edition cancels and replaces the second edition published in 1999. This edition constitutes a technical revision.

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

- a) Annex C (informative) Measurement method for screening effectiveness was cancelled;
- b) Subclause 8.9 gives references to relevant test procedures.