

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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

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**Cordons coaxiaux et cordons pour fréquences radioélectriques –  
Partie 2-1: Spécification intermédiaire pour cordons coaxiaux souples**

[IEC 60966-2-1:2024](#)

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## RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

### Part 2-1: Sectional specification for flexible coaxial cable assemblies

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IEC 60966-2-1 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 fourth edition cancels and replaces the third edition published in 2008. This edition constitutes a technical revision.

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

- a) added Figure 2;
- b) added Clause 6 "IEC type designation";
- c) modified Figure 3;
- d) added Clause 7 "Rating and characteristics";

- e) added "Requirements/Remarks" to all the tests in Clause 8;
- f) added "Insertion loss difference", "Corona extinction voltage" and "Shaking test" in Table 2;
- g) added "Impact test" in Table 3;
- h) changed "Vibrations, bumps and shocks test" to "Vibrations, shocks test" in Table 3;
- i) added Annex A, Annex B and Annex C.

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

Draft	Report on voting
46/966/FDIS	46/996/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://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](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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# RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

## Part 2-1: Sectional specification for flexible coaxial cable assemblies

### 1 Scope

This part of IEC 60966 is a sectional specification that relates to flexible RF coaxial cable assemblies operating in the transverse electromagnetic mode (TEM). It establishes uniform requirements for testing the electrical, mechanical and climatic properties of flexible cable assemblies composed of flexible RF coaxial cables and RF coaxial connectors.

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

NOTE 1 For the purposes 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 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 61196-9, *Coaxial communication cables – Part 9: Sectional specification for flexible RF coaxial cables*

### 3 Terms and definitions

For the purposes of this document, the definitions given in IEC 60966-1:2019 apply.

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 Design and construction

### 4.1 Cable design and construction

Cables should conform to IEC 61196-9 and its related detail specifications. Where cable designs deviating from these publications are required, they shall comply with the requirements of the relevant detail specification.

When required, the manufacturer can use additional protective tubing or cable deviating from IEC 61196-9, in order to comply with the requirements of the relevant detail specification.

The materials used in the cable shall be given as engineering information in the relevant detail specification.

### 4.2 Connector design and construction

Connectors should conform to the IEC 61169 series. Where connector designs deviating from the IEC 61169 series are required, the interface should conform to the relevant part of IEC 61169 where available and shall comply with the requirements of the relevant detail specification.

The materials used in the connector shall be given as engineering information in the relevant detail specification.

### 4.3 The relative position dimensions of the interface

The relative position dimensions of the interface of end connector(s) of the cable assemblies shall comply with the interface of the relevant part of IEC 61169 or the relevant detail specification. The relative position dimensions of the interface of end connector(s) include the dimension of inner conductor relative to dielectric and inner conductor relative to outer conductor.

The relative position dimensions of the interface of some typical connectors are shown in Annex A.

### 4.4 Outline of the cable assembly

The outline shall be in accordance with the relevant detail specification of the cable assembly.

The length, unless otherwise specified in the relevant detail specification, is defined as between the reference planes of the connectors. In the case of right-angle connectors, the length applies to the axis of the connectors (see Figure 1 and Figure 2).

If not indicated in the relevant detail specification, the length tolerance shall be  $\pm 1$  % for cables equal to, or longer than, 300 mm and  $\pm 3$  mm for cables shorter than 300 mm.

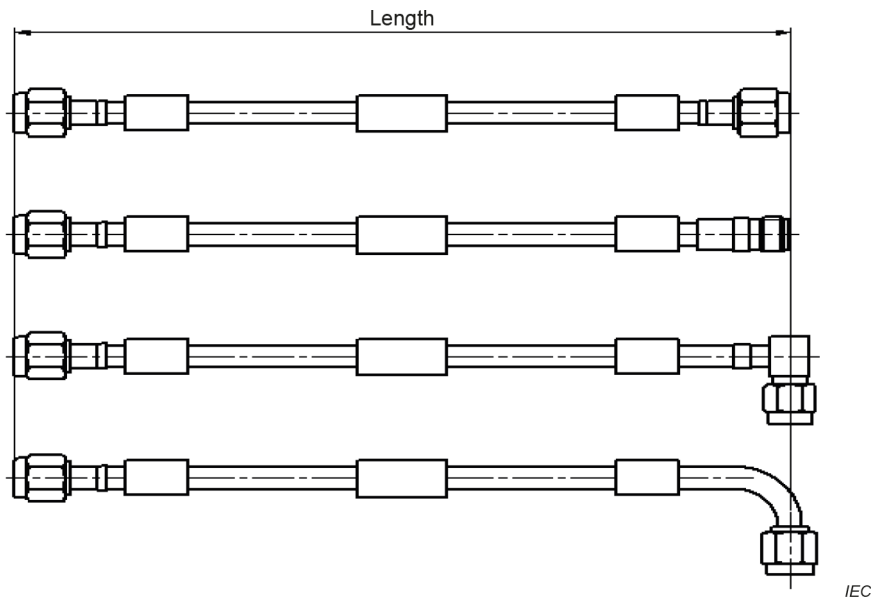


Figure 1 – Length definition of cable assemblies with two connectors

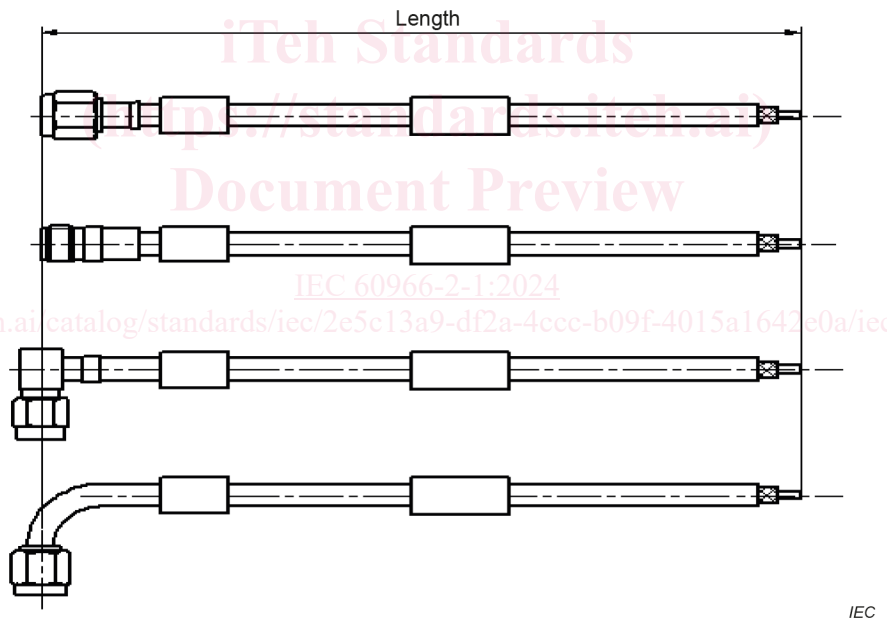
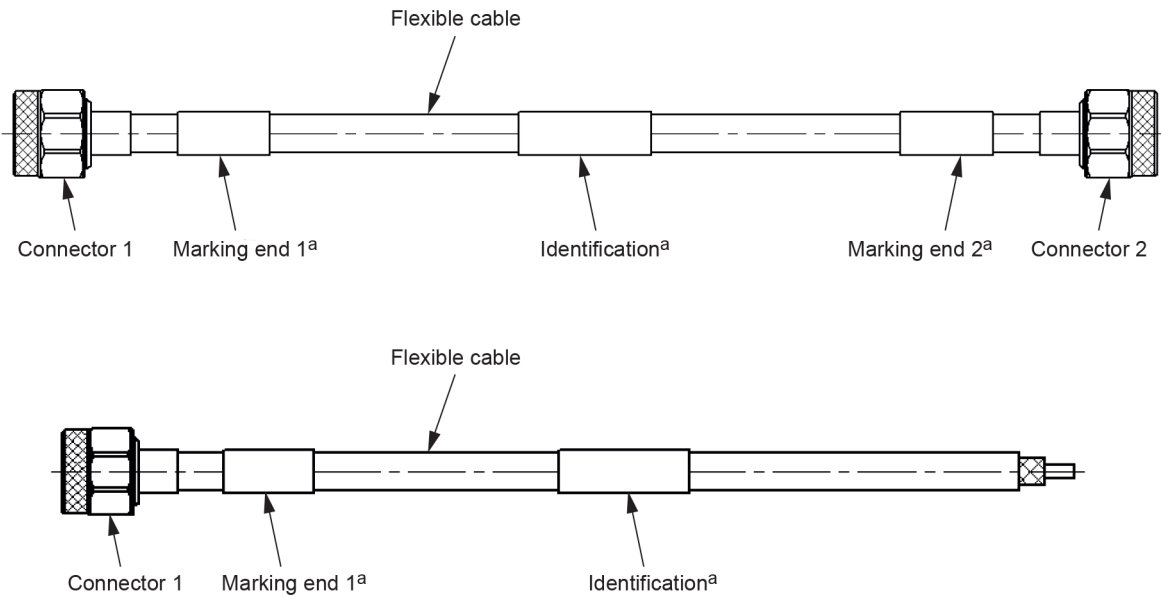


Figure 2 – Length definition of cable assemblies with one connector

## 5 Workmanship, marking and packaging

IEC 60966-1:2019, Clause 5 and the following paragraph applies:

Cable assemblies made in accordance with this sectional specification comprise a section of cable and two connectors (see Figure 1). Occasionally, the cable assembly will comprise only a cable and one connector (see Figure 2). When specified in the relevant detail specification, the assembly may additionally include markers for identification of the assembly and interconnecting ends. End caps and other accessories may also be specified (see Figure 3).



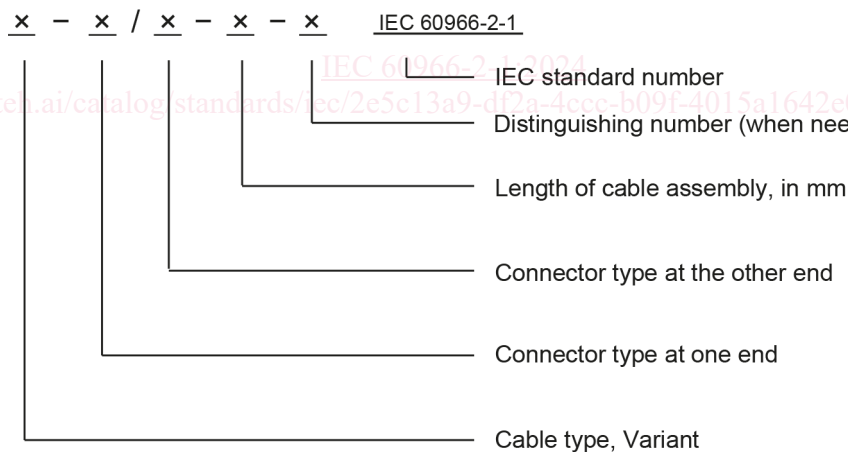
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<sup>a</sup> When specified

**Figure 3 – The marking example of a cable assembly**

## 6 IEC type designation

IEC type designation of cable assembly consists of the type of cable and connectors, the length of the cable assembly and the IEC standard number, as shown below:



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Example 1: RG316-SMA-P/SMA-P-3000-A-IEC60966-2-1 cable assembly is composed of type RG316 flexible RF coaxial cable, one end is type SMA-P connector and the other end is type SMA-P connector, the length of the cable assembly is 3 000 mm, its distinguishing number is A. This cable assembly complies with IEC 60966-2-1.

Example 2: RG142-SMAJ-2000-B-IEC60966-2 cable assembly is composed of type RG142 flexible RF coaxial cable, one end is type SMAJ connector and the other end empty, the length of the cable assembly is 2 000 mm, its distinguishing number is B. This cable assembly complies with IEC 60966-2-1.

## 7 Standard rating and characteristics

### 7.1 Nominal characteristic impedance

The nominal characteristic impedance shall be 50 Ω or as specified in the relevant detail specification.

### 7.2 Temperature range

The rated temperature range of cable components made of different cables, connectors and auxiliary materials shall comply with the provisions in Table 1 or as specified in their detail specification.

**Table 1 – Rated temperature of cable assemblies with flexible cables**

Materials used in cable assemblies	Storage °C	Installation °C	Operational °C
PE	-40 to +70	-30 to +60	-40 to +70
PP	-20 to +85	-10 to +80	-10 to +80
PVC	-40 to +75	-30 to +60	-40 to +70
TPE	-40 to +85	-30 to +80	-40 to +80
Silica gel	-40 to +150	-20 to +150	-20 to +150
Rubber	-40 to +105	-20 to +100	-20 to +100
LSZH	-25 to +70	-15 to +60	-25 to +70
XLPE	-55 to +105	-40 to +100	-40 to +100
PVDF	-40 to +125	-40 to +60	-40 to +125
FEP	-60 to +200	-60 to +200	-60 to +200
PFA	-60 to +250	-60 to +230	-60 to +230
ETFE	-60 to +150	-60 to +150	-60 to +150
PTFE	-60 to +250	-60 to +250	-60 to +250
Ordinary tin solder (Sn)	-60 to +150	-60 to +150	-60 to +150

### 7.3 Bending radius

#### 7.3.1 Static bending radius

The static bending radius  $R$  of the cable assembly shall not be less than 5 times the cable diameter  $D$ , i.e.  $R \geq 5 \times D$ , or as specified in the relevant detail specification.

#### 7.3.2 Dynamic bending radius

The dynamic bending radius  $R$  of the cable assembly shall not be less than 10 times the cable diameter  $D$ , i.e.  $R \geq 10 \times D$ , or as specified in the relevant detail specification.

### 7.4 Rated operating frequency range

The operating frequency range of cable assemblies shall be as specified in the relevant detail specification.

### 7.5 Rated working voltage

The rated operating voltage range of cable assemblies shall be as specified in the relevant detail specification.

## 7.6 Rated power

When required, the rated RF power of cable assemblies shall be in accordance with the relevant detail specification.

## 8 Requirements of finished cable assemblies

### 8.1 General

For finished cable assemblies, the requirements given below shall apply when they are tested in accordance with IEC 60966-1:2019 and the test methods specified herein.

When needed, cable assemblies with one connector shall be terminated with a suitable connector at the cable end to do the test and cut off after the test.

Unless otherwise specified, all measurements shall be carried out under standard atmospheric conditions for testing in accordance with IEC 60966-1:2019, Clause 7.

### 8.2 Electrical requirements

Electrical requirements are given in Table 2.

**Table 2 – Electrical requirements**

No.	Inspection	Test method IEC 60966-1:2019	Requirements/Remarks
1	Reflection properties (Return loss)	8.1	Value in accordance with the relevant detail specification. While the parameter return loss ( $A_r$ ) is preferred, the reflection factor ( $r$ ) or the VSWR (voltage standing wave ratio) may be specified where $A_r = -20 \log_{10}  r $ and $\text{VSWR} = \frac{1+ r }{1- r }$
2	Uniformity of impedance	8.2	Rise time of the TDR system in accordance with the relevant detail specification. The characteristic impedance variation shall not exceed $\pm 5\%$ of the nominal value or shall be in accordance with the relevant detail specifications.
3	Insertion loss	8.3	Value in accordance with the relevant detail specification.
4	Insertion loss stability	8.4	When required, unless otherwise specified in the relevant detail specification, test conditions and requirements are as follows: a) test mandrel radius: $5D$ , where $D$ is the diameter of the cable. b) number of turns: 5 c) portion of the cable assembly on the mandrel is its central portion d) after bent, the insertion loss variation shall not exceed $\pm 5\%$ or it shall be in accordance with the relevant detail specification.
5	Propagation time	8.5	When required, value in accordance with the relevant detail specification.

No.	Inspection	Test method IEC 60966-1:2019	Requirements/Remarks
6	Stability of electrical length	8.6	When required, test conditions and requirements in accordance with the relevant detail specification. The typical value of stability of electrical length is within $\pm 0,5^\circ/\text{GHz}$ .
7	Phase difference	8.7	When required, the phase difference shall not exceed the limits specified in the relevant detail specification. When more than two cable assemblies are measured, the reference cable shall be clearly marked. The typical value of phase difference is within $\pm 0,6^\circ/\text{GHz}$ .
8	Insertion loss difference	8.7	When required, the test is carried out in accordance with IEC 60966-1:2019, Clause 8 except that the test parameters are insertion loss instead of phase. When required, insertion loss difference shall not exceed 5 % of the typical value, or it shall be in accordance with the detail specification.
9	Phase variation with temperature	8.8	When required, value in accordance with the relevant detail specification.
10	Screening effectiveness	8.9	When required, value of transfer impedance or shield attenuation in accordance with detail specification.
11	Voltage proof	8.10	Value in accordance with the relevant detail specification. There shall be no breakdown, arcing or flashover throughout.
12	Insulation resistance	8.11	$\geq 5\ 000\ \text{M}\Omega$ , or in accordance with the relevant detail specification.
13	Inner and outer conductor continuity	8.12	Test voltage : $\leq 36\ \text{V DC}$ . Inner conductor and outer conductor shall be continuous respectively.
14	Power rating	8.13	When required, test conditions and value in accordance with the relevant detail specification.
15	PIM	8.14	When required, if applicable to $50\ \Omega$ assemblies, the test frequencies ( $f_1$ and $f_2$ ), input power, PIM values in accordance with the relevant detail specification. Typical assemblies with the following connectors, when tested at frequency 700 MHz\ 800 MHz\ 900 MHz\ 1 800 MHz\ 2 100 MHz\ 2 600 MHz, input power: $2 \times 20\ \text{W}$ , the PIM shall be as follows: – $\leq -150\ \text{dBc}$ (with N type connectors); – $\leq -155\ \text{dBc}$ (with 4.3/10 type connectors); – $\leq -155\ \text{dBc}$ (with 7/16 type connectors).
16	Corona extinction voltage	IEC 61196-1-126	When required, sample preparation is not needed, and the test is carried out in air without immersion in insulating oil, value in accordance with the relevant detail specification. It is recommended to use a relatively non corona adapter to connect the cable assembly for testing.
17	Shaking test	Annex B of this specification	When required, the test shall be conducted in accordance with Annex B of this specification, and the rate of change shall not exceed $\pm 5\ \%$ , or it shall be in accordance with the detail specification.