

# 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 3000 MHz, Classe d'écrantage A++,  
connecteurs IEC 61169-47**



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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 33.120.01

ISBN 978-2-8322-3871-4

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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**

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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.

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

| Draft       | Report on voting |
|-------------|------------------|
| 46/890/FDIS | 46/896/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/standardsdev/publications](http://www.iec.ch/standardsdev/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.

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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 shall be applied.

The qualification will be 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.

## **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**

#### **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 detail specification 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  $\Omega$  cable networks (type F-Quick)*

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 61196-1-101, *Coaxial communication cables – Part 1-101: Electrical test methods – Test for conductor d.c. resistance of cable*

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

#### **3 Terms and definitions**

No terms and definitions are listed in this document.