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INTERNATIONAL STANDARD

REDLINE VERSION

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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CONTENTS

FOREWORD 2
INTRODUCTION 1
1 Scope 5
2 Normative references 5
3 Terms and definitions 5
4 Detail specification 6
Annex A (informative) Identification and marking 10
A.1 Identification – Type name 10
A.2 Marking 10

Figure 1 – Length definition of cable assemblies 6
Figure A.1 – Identification – Type name 10
Figure A.2 – Marking 10

Table A.1 – Variants of connector 10

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 60966-2-8:2022. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

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);
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.

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