SLOVENSKI STANDARD
SIST EN 61169-8:2007

01-november-2007

Radiofrekvenļ ni konektorji ï 8. del: Podroļ na specifikacija ï RF koaksialni konektorji z notranjim premerom 6,5 mm (0,256 in) zunanjega vodnika in bajonetnim zaklepom ï Karakteristiļ na impedanca 50 ohmov (tip BNC) (IEC 61169-8:2007)

Radio-frequency connectors -- Part 8: Sectional specification - RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock - Characteristic impedance 50 ohms (type BNC)

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Hochfrequenz-Steckverbinder – Teil 8: Rahmenspezifikation – Koaxiale Hochfrequenzsteckverbinder mit 6,5 mm (0,256 in) Innendurchmesser des Außenleiters und Bajonettverschluss – Wellenwiderstand 50 Ohm (Typ BNC) (IEC 61169-8:2007)

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Connecteurs pour fréquences radioélectriques -- Partie 8: Spécification intermédiaire - connecteurs coaxiaux pour fréquences radioélectriques, ayant un diametre intérieur du conducteur extérieur de 6,5 mm (0,256 in), a verrouillage a baionnette - Impédance caractéristiques de 50 ohms (type BNC) (IEC 61169-8:2007)

Ta slovenski standard je istoveten z: **EN 61169-8:2007**

ICS:

33.120.30	Radiofrekvenļ ni konektorji (RF)	R.F. connectors

SIST EN 61169-8:2007 **en,fr,de**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61169-8

April 2007

ICS 29.120.20

English version

Radio-frequency connectors - Part 8: Sectional specification - RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock - Characteristic impedance 50 ohms (type BNC)

(IEC 61169-8:2007)

Connecteurs pour fréquences radioélectriques - Partie 8: Spécification intermédiaire - connecteurs coaxiaux pour fréquences radioélectriques, ayant un diamètre intérieur du conducteur extérieur de 6,5 mm (0,256 in), à verrouillage à baïonnette - Impédance caractéristique de 50 ohms (type BNC) (CEI 61169-8:2007)

Hochfrequenz-Steckverbinder - Teil 8: Rahmenspezifikation - Koaxiale Hochfrequenzsteckverbinder mit 6,5 mm (0,256 in) Innendurchmesser des Außenleiters und Bajonettverschluss - Wellenwiderstand 50 Ohm (Typ BNC) (IEC 61169-8:2007)

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This European Standard was approved by CENELEC on 2007-03-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of document 46F/57/FDIS, future edition 1 of IEC 61169-8, prepared by SC 46F, R.F. and microwave passive components, of IEC TC 46, Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61169-8 on 2007-03-01.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2007-12-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2010-03-01

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 61169-8:2007 was approved by CENELEC as a European Standard without any modification.

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

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IEC 60068-2-1 NOTE Harmonized as EN 60068-2-1:1993 (not modified).

IEC 60068-2-2 NOTE Harmonized as EN 60068-2-2:1993 (not modified).

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IEC 60068-2-11 NOTE Harmonized as EN 60068-2-11:1999 (not modified).

IEC 60068-2-13 NOTE Harmonized as EN 60068-2-13:1999 (not modified).

IEC 60068-2-14 + A1 NOTE Harmonized as EN 60068-2-14:1999 (not modified).

IEC 60068-2-20 NOTE Harmonized as HD 323.2.20 S3:1988 (not modified).

IEC 60068-2-30 NOTE Harmonized as EN 60068-2-30:2005 (not modified).

IEC 60068-2-78 NOTE Harmonized as EN 60068-2-78:2001 (not modified).

———————

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60068-1 + corr. October + A1	1988 1988 1992	Environmental testing - Part 1: General and guidance	EN 60068-1	1994
IEC 60096-2	-[1)]	Radio-frequency cables - Part 2: Relevant cable specifications	-	-
IEC 61169-1	1992	Radio-frequency connectors - Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	1994

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[1)] Undated reference.

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INTERNATIONAL STANDARD

IEC 61169-8

QC 222400

First edition
2007-02

Radio-frequency connectors –

Part 8:
Sectional specification –
RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock – Characteristic impedance 50 Ω (type BNC)

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

Part 8: Sectional specification – RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock – Characteristic impedance 50 Ω (type BNC)

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 61169-8 has been prepared by subcommittee 46F: RF and microwave passive components, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

This first edition of IEC 61169-8 cancels and replaces IEC 60169-8 published in 1978 as well as its Amendment 1 (1996) and Amendment 2 (1997). This edition constitutes a technical revision.

This first edition of IEC 61169-8 differs from IEC 60169-8 primarily in that it contains a new Clause 7: Quality assessment procedures and a new Clause 8: Instructions for preparation of detail specifications. Futhermore this IEC 61169-8 refers to IEC 61169-1 whereas IEC 60169-8 referred to IEC 60169-1.

The text of this standard is based on the following documents:

FDIS	Report on voting
46F/57/FDIS	46F/67/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61169 series, published under the general title *Radio frequency connectors,* can be found on the IEC website.

The QC number that appears on the front cover of this publication is the specification number in the IEC Quality Assessment System for Electronic Components (IECQ).

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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A bilingual edition of this document may be issued at a later date.

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RADIO-FREQUENCY CONNECTORS –

Part 8: Sectional specification – RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock – Characteristic impedance 50 Ω (type BNC)

1 Scope

This part of IEC 61169, which is a sectional specification (SS), provides information and rules for the preparation of detail specifications (DS) for RF coaxial connectors which may preferably be used with RF cables 60096 IEC 50-3 of IEC 60096-2. These connector patterns are for low power, quick connect/disconnect applications using a bayonet type coupling mechanism and are commonly known as type "BNC".

It describes the interface dimensions for general purpose connectors, dimensional details for standard test connectors together with gauging information and the mandatory tests selected from IEC 61169-1, applicable to all DS relating to type BNC connectors.

This specification indicates the recommended performance characteristics to be considered when writing a DS and covers test schedules and inspection requirements.

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2 Normative references

SIST EN 61169-8:2007
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61169-8:2007

The following referenced documents are indispensable for the application 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 60068-1:1988, *Environmental testing – Part 1: General and guidance*
Amendment 1 (1992)

IEC 60096-2, *Radio-frequency cables – Part 2: Relevant cable specifications*

IEC 61169-1:1992, *Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

3 IEC type designation

Connectors of this standard shall be designated by:

a) the reference to this standard, 61169-8 IEC;

b) a serial number (see Clause 6);

c) a letter corresponding to the climatic category (see 7.2).

Example:

61169-8-IEC-1A denotes a free pin connector belonging to climatic category 40/85/21 to be used with an RF coaxial cable 60096 IEC 50-3-1/3/4.

NOTE The type designation used in this standard is provisional. A final type designation is under consideration.

4 Interface dimensions

4.1 Dimensions – General purpose connectors

The original dimensions are in inches.

All undimensioned pictorial configurations are for reference purposes only.

4.1.1 Pin connector

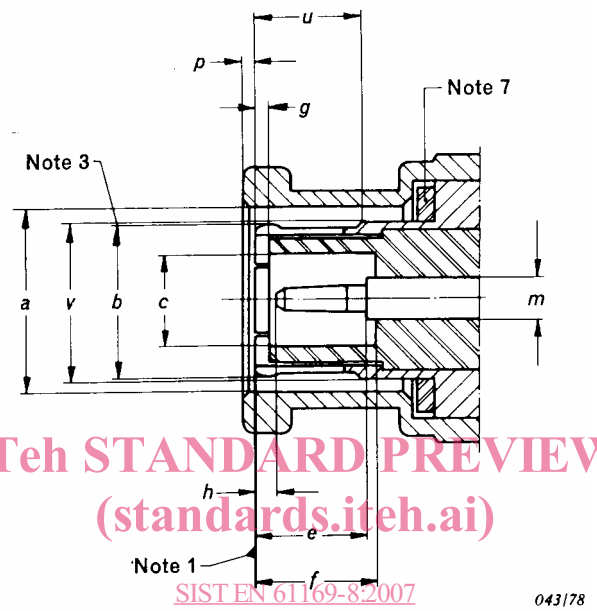

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Figure 1 – Connector with pin-centre contact (for dimensions, see Table 1)