



SLOVENSKI STANDARD
SIST EN 61169-1:1998/A2:1998
01-april-1998

Radio-frequency connectors - Part 1: Generic specification - General requirements and measuring methods - Amendment A2 (IEC 61169-1:1992/A2:1997)

Radio-frequency connectors -- Part 1: Generic specification - General requirements and measuring methods

Hochfrequenz-Steckverbinder -- Teil 1: Fachgrundspezifikation - Allgemeine Anforderungen und Meßverfahren

Connecteurs pour fréquences radioélectriques -- Partie 1: Spécification générique - Prescriptions générales et méthodes de mesure

SIST EN 61169-1:1998/A2:1998
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Ta slovenski standard je istoveten z: EN 61169-1:1994/A2:1997

ICS:

33.120.30 Radiofrekvenčni konektorji R.F. connectors
(RF)

SIST EN 61169-1:1998/A2:1998 **en**

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ICS 33.120.30

Descriptors: Radio frequency connectors, generic specification

English version

Radio-frequency connectors
Part 1: Generic specification
General requirements and measuring methods
(IEC 61169-1:1992/A2:1997)

Connecteurs pour fréquences
radioélectriques
Partie 1: Spécification générique
Prescriptions générales et méthodes
de mesure
(CEI 61169-1:1992/A2:1997)

Hochfrequenz-Steckverbinder
Teil 1: Fachgrundspezifikation
Allgemeine Anforderungen und
Meßverfahren
(IEC 61169-1:1992/A2:1997)

This amendment A2 modifies the European Standard EN 61169-1:1994; it was approved by CENELEC on 1997-03-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Foreword

The text of document 46D/279/FDIS, future amendment 2 to IEC 61169-1:1992, prepared by SC 46D, RF connectors, of IEC TC 46, Cables, wires, waveguides, R.F. connectors, and accessories for communication and signalling, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 61169-1:1994 on 1997-03-11.

The following dates were fixed:

- latest date by which the amendment has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1998-01-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 1998-01-01

Endorsement notice

The text of amendment 2:1997 to the International Standard IEC 61169-1:1992 was approved by CENELEC as an amendment to the European Standard without any modification.

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

61169-1

QC 220000

1992

AMENDEMENT 2

AMENDMENT 2

1997-04

Amendement 2

Connecteurs pour fréquences radioélectriques –

Partie 1:

Spécification générique –

**Prescriptions générales et méthodes de mesure
(standards.iteh.ai)**

Amendment 2

SIST EN 61169-1:1998/A2:1998

<https://standards.iteh.ai/catalog/standards/sist/a44d9ed0-c7b3-42e7-8787->

Radio-frequency connectors –

Part 1:

Generic specification –

General requirements and measuring methods

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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FOREWORD

This amendment has been prepared by the subcommittee 46D: RF connectors, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, and accessories for communication and signalling.

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

FDIS	Report on voting
46D/279/FDIS	46D/296/RVD

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

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Add, after subclause 10.3.2.3, the following new subclause

10.3.3 Test schedules and inspection requirements for alternative fixed-quantity sample procedures

Table 1 – Lot-by-lot procedure – Acceptance tests: groups A1 and B1

Test method of IEC	Assessment level M (higher)				Assessment level H (lower)			
	Test required	IL	AQL %	Period	Test required	IL	AQL %	Period
QC 220000 Subclause								
<i>Group A1</i> Visual inspection	9.1.2	a	11	1,0	a	S3	1,5	
<i>Group B1</i> Outline dimensions	9.1.3.1	a	S4	0,40	a	S3	0,40	
Mechanical compatibility	9.1.3.3	a	11	1,0	a	S3	1,5	
Engagement and separation	9.3.6	a	S4	0,40	a	S3	1,5	
Gauge retention force (resilient contacts)	9.3.4	ia	11	1,0	ia	S3	1,5	Lot
Scaling, non-hermetic	9.4.5.1	ia	11	0,65	ia	S3	1,0	by
Scaling, hermetic	9.4.5.2	ia	11	0,015	ia	S3	0,025	lot
Voltage proof	9.2.6	a	S4	0,40	a	11	4,0	lot
Solderability piece-parts ^{d)}	9.3.2.1.1	ia	S4	0,40	ia	S3	4,0	
Insulation resistance	9.2.5	a	S4	0,40	a	S3	4,0	
Effectiveness of safety wire locking holes; piece-parts ^{d)}	TBD	ia	S4	0,40	ia	S3	4,0	
a applicable ia test required (if technically applicable) IL inspection level AQL acceptable quality level d) destructive tests – specimens shall not be returned to stock.								

Table 2 – Fixed quantity sample procedure – Initial QA test sequence: group 0

	Test method of IEC 61169-1 QC 220000 Subclause	Assessment level M (higher)		Assessment level H (lower)	
		Test required	Number of specimens	Test required	Number of specimens
<i>Group 0</i>					
Visual inspection	9.1.2	a	36 minimum	a	18 minimum
Outline dimensions	9.1.3.1	a			
Mechanical compatibility	9.1.3.3	a			
Engagement and separation	9.3.6	a			
Gauge retention force	9.3.4	ia			
(resilient contacts)					
Scaling, non-hermetic	9.4.5.1	ia			
Scaling, hermetic	9.4.5.2	ia			
Voltage proof	9.2.6	a			
Solderability piece-parts ^{d)}	9.3.2.1.1	ia			
Insulation resistance	9.2.5	a			
a applicable ia test required (if technically applicable) d) destructive tests – specimens shall not be returned to stock					

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Table 3 – Fixed quantity sample procedure – Remaining QA test groups lot-by-lot procedure – Periodic group D test

	Test method of IEC 61169-1 QC 220000 Sub-clause	Assessment level M (higher)				Assessment level H (lower)			
		Test required	Number of specimens	Permitted failures per group	Period	Test required	Number of specimens	Permitted failures per group	Period
<i>Group D1 d)</i>									
Solderability – connector assemblies	9.3.2.1.1	ia				ia			
Resistance to soldering heat	9.3.2.1.2	ia				ia			
Mechanical tests on cable fixing:									
i) cable rotation (nutation)	9.3.7.2	ia	6	0	3 years	ia	3	0	3 years
ii) cable pulling	9.3.8	ia				ia			
iii) cable bending	9.3.9	ia				ia			
iv) cable torsion	9.3.10	ia				ia			
Bending moment	9.3.12	a				a			
Strength of coupling mechanism	9.3.11	ia				ia			
<i>Group D2 d)</i>									
Contact resistance, outer conductor and screen continuity, centre conductor continuity	9.2.3	a	6	0	3 years	a	3	0	3 years
Bump	9.3.13	a ³⁾				a			
Vibration	9.3.3	a				a			
Shock	9.3.14	a				a			
Damp heat, steady state	9.4.3	a				a			
Salt mist	9.4.6	a				a			
<i>Group D3</i>									
Dimensions, piece-parts and materials	9.1.3.2	a	1)	0	3 years	a	1)	0	3 years
<i>Group D4 d)</i>									
Mechanical endurance	9.5	a	6	0	3 years	a	3	0	3 years
High temperature endurance	9.6	a				a			
Sulphur dioxide	9.4.8	a ³⁾				a ³⁾			
<i>Group D5 d)</i>									
Reflection factor	9.2.1	ia	6	0	3 years	ia	3	0	3 years
Screening effectiveness	9.2.8	ia				ia			
Water immersion	9.2.7	a ³⁾				a ³⁾			
<i>Group D6 d)</i>									
Centre contact captivation	9.3.5	ia				ia			
Discharge test (corona)	9.2.9	a	6	0	3 years	a	3	0	3 years
Rapid change of temperature	9.4.4	a				a			
Climatic sequence	9.4.2	a				a			
<i>Group D7 d)</i>									
Resistance to solvent and contaminating fluids	9.7	a ³⁾	12)	0	3 years	a ³⁾	12)	0	3 years
a applicable ia test required (if technically applicable) IL inspection level AQL acceptable quality level d) destructive tests – specimens shall not be returned to stock.									
NOTES 1) One set of piece-parts of each style and variant, unless using common piece-parts. 2) Group D7 – number of pairs for each solvent. 3) See detail specification.									