

**SLOVENSKI
STANDARD**

SIST EN 61935-1:2004/A1:2004

april 2004

Generic cabling systems - Specification for the testing of balanced communication cabling in accordance with EN 50173 - Part 1: Installed cabling; Amendment A1 (IEC 61935-1:2000/A1:2002)

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ICS 33.120.10

Referenčna številka
SIST EN 61935-1:2004/A1:2004(en)

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EUROPEAN STANDARD

EN 61935-1/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2002

ICS 33.120.10

English version

**Generic cabling systems -
Specification for the testing of balanced communication cabling
in accordance with EN 50173
Part 1: Installed cabling
(IEC 61935-1:2000/A1:2002)**

Systèmes de câblage générique -
Spécification pour les essais de câblage
de télécommunications équilibrées
selon l'EN 50173
Partie 1: Câblages installés
(CEI 61935-1:2000/A1:2002)

Anwendungsneutrale
Kommunikationskabelanlagen -
Spezifikation für die Prüfung
der symmetrischen
Kommunikationsverkabelung
nach EN 50173
Teil 1: Installierte Verkabelung
(IEC 61935-1:2000/A1:2002)

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This amendment A1 modifies the European Standard EN 61935-1:2000; it was approved by CENELEC on 2002-10-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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 46A/483/FDIS, future amendment 1 to IEC 61935-1:2000, prepared by SC 46A, Coaxial cables, 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 amendment A1 to EN 61935-1:2000 on 2002-10-01.

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) 2003-07-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2005-10-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of amendment 1:2002 to the International Standard IEC 61935-1:2000 was approved by CENELEC as an amendment to the European Standard without any modification.

In the official version, all occurrences of "ISO/IEC 11801 and "ISO/IEC 11801 (or equivalent)" are to be replaced by "EN 50173".

This replacement is to be made in subclauses 5.1 (four times), 5.3.5 and 6.1.

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SIST EN 61935-1:2004/A1:2004
2162f5537c12/sist-en-61935-1-2004-a1-2004

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
Add: IEC 61156-5	2002	Multicore and symmetrical pair/quad cables for digital communications Part 5: Symmetrical pair/quad cables with transmission characteristics up to 600 MHz - Horizontal floor wiring - Sectional specification	-	-
IEC 61156-6	2002	Part 6: Symmetrical pair/quad cables with transmission characteristics up to 600 MHz - Work area wiring - Sectional specification	-	-

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

61935-1

2000

AMENDEMENT 1
AMENDMENT 1
2002-08

Amendement 1

**Systèmes de câblage générique –
Spécification pour les essais de câblage
de télécommunications équilibrées
selon l'ISO/CEI 11801 –**

ITC STANDARD PREVIEW

**Partie 1:
Câblages installés**

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SIST EN 61935-1:2004/A1:2004

<https://standards.iteh.ai/catalog/standards/sist/007f270a-8c8d-47e3-8b5d-2162f537c12/sist-en-61935-1-2004-a1-2004>

Amendment 1

**Generic cabling systems –
Specification for the testing of balanced
communication cabling in accordance
with ISO/IEC 11801 –**

**Part 1:
Installed cabling**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

*Pour prix, voir catalogue en vigueur.
For price, see current catalogue*

FOREWORD

This amendment has been prepared by subcommittee 46A: Coaxial cables, of IEC technical committee 46: Cables, wires, waveguides, r.f. connectors and accessories for communication and signalling.

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

FDIS	Report on voting
46A/483/FDIS	46A/489/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.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until 2004. At this date, the publication will be

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

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Page 3

CONTENTS

[SIST EN 61935-1:2004/A1:2004
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Add, on page 11, the titles of tables 10, 11 and 12 as follows:

Table 10 – Estimated measurement accuracy at the class E channel pass/fail limit for level III test instruments

Table 11 – Minimum requirements for measurement accuracy parameters for level III field test equipment for baseline configuration

Table 12 – Minimum requirements for measurement accuracy parameters for level III field test equipment with test adapter

Page 17

1 Scope

Replace the second paragraph by the following:

This standard applies when the cable assemblies are constructed of cables complying with IEC 61156-1, IEC 61156-2, IEC 61156-3, IEC 61156-4, IEC 61156-5 and IEC 61156-6, and connecting hardware as specified in IEC 60603-7 or IEC 60807-8. In the case where cables and/or connectors do not comply with these standards, then additional testing may be required.

2 Normative references

Insert in the existing list the following standards:

IEC 61156-5:2002, *Multicore and symmetrical pair/quad cables for digital communications – Part 5: Symmetrical pair/quad cables with transmission characteristics up to 600 MHz – Horizontal floor wiring – Sectional specification*

IEC 61156-6:2002, *Multicore and symmetrical pair/quad cables for digital communications – Part 6: Symmetrical pair/quad cables with transmission characteristics up to 600 MHz – Work area wiring – Sectional specification*

Page 19

3.2

attenuation (insertion loss, composite loss, operational attenuation and S_{21})

Add the following note:

NOTE The term “attenuation” is often used where insertion loss is intended.

Page 25

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4.2.2 Termination of conductor pairs

Add the following note after the first sentence of the second paragraph:

NOTE 1 When testing 120 Ω cabling systems, it might be more appropriate to apply terminations other than 100 Ω .
<https://standards.iteh.ai/catalog/standards/sist/007f270a-8c8d-47e3-8b5d-2162b557c123/iec-61935-1-2004-am-2004>

Make the second sentence of the second paragraph a new paragraph and number the following note – 'NOTE 2'

Page 33

Table 1 – Test balun performance characteristics

Amend item b) as follows:

b) For tests up to 600 MHz, class A baluns should be used.

Page 41

4.4.6 Temperature correction

Replace the existing text by the following new text:

The measurements shall be conducted at the same temperature throughout the test so that the effect of the change of temperature is negligible. Attenuation increases with temperature so the attenuation of cable segments *shall be corrected to a value that would be reached at the predicted maximum operating temperature*. The temperature coefficient and the maximum temperatures shall be specified in the relevant specification for the components.