

SLOVENSKI STANDARD
SIST EN 50117-1:1997/A2:1997
01-december-1997

**Coaxial cables used in cabled distribution networks - Part 1: Generic specification
- Amendment A2**

Coaxial cables used in cabled distribution networks -- Part 1: Generic specification

Koaxialkabel für Kabelverteilanlagen -- Teil 1: Fachgrundspezifikation

Câbles coaxiaux pour réseaux câblés de distribution -- Partie 1: Spécification générique

STANDARD PREVIEW
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Ta slovenski standard je istoveten z: EN 50117-1:1995/A2:1997

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ICS:

33.120.10 Koaksialni kabli. Valovodi Coaxial cables. Waveguides

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 50117-1/A2

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ICS 33.120.10

Descriptors: Coaxial cables, cabled distribution networks

English version

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Part 1: Generic specification**

Câbles coaxiaux pour réseaux
câblés de distribution
Partie 1: Spécification générique

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This amendment A2 modifies the European Standard EN 50117-1:1995; it was approved by CENELEC on 1996-12-09. 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

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Foreword

This amendment was prepared by SC 46XA, Coaxial cables, of Technical Committee CENELEC TC 46X, Communication cables.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A2 to EN 50117-1:1995 on 1996-12-09.

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) 1997-12-01
 - latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1997-12-01
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Text of A2 to EN 50117-1:1995**9 Material and cable construction tests**

Replace "9.10 Flammability - Under consideration" by:

9.10 Flammability

NOTE: This test method is designed for indoor drop cables, where it is required to test lower cable densities than presently included in HD 405.3 or where it is required to test cables in a bundle formation.

9.10.1 Fire Propagation**9.10.1.1 Principle**

This test is designed to determine fire propagation characteristics in a simulated installation environment.

9.10.1.2 Apparatus

These proposals use the apparatus and general methodology of HD 405.3.

9.10.1.3 Procedure

For cables with overall diameter above 8 mm, Procedure a. shall be applied. Cables with overall diameter \leq 8 mm shall be subject to Procedure b.

a. Category NMV 0.5

This test shall be carried out as for HD 405.3 category C except that the nominal total volume of non-metallic material shall be 0.5 l/m.

Cable mounting one (or more) layer(s) on 500 mm ladder.

b. Category NMV 0.5 (bundles)

This test shall be carried out as for HD 405.3 category C except that the ladder loading will be:

- bundles of cable of approximate diameter 20 mm spaced by half the bundle diameter
- a minimum of two bundles shall be tested

- the number of bundles shall be determined as that necessary to give a nominal total volume of non-metallic material of 0,5 l/m
- the bundle formation shall be as shown hereafter
- the number of bundles tested and NMV of each bundle shall be recorded
- the cable to be tested shall be selected such that the total volume of non-metallic material in the bundles to be tested exceeds 0,4 l/m but does not exceed 0,6 l/m.

Formation of Bundles

The number of cables in each bundle shall be as follows:

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Cable diameter (mm)	No. of cables in a bundle
Up to and including 3.3	37
Above 3.3 up to and including 4,3	19
Above 4.3 up to and including 6.0	12
Above 6,0 up to and including 8.0	7

The cables in the bundle shall be laid straight in the formation given and then subjected to a unidirectional twist to give a lay length of approximately 15 D (where D is the cable diameter).

The bundle shall be tightly twisted.

9.10.1.4 Requirement

The maximum extent of the charred portion measured on the test sample shall be in accordance with HD 405 3.

10 Tests for mechanical and thermal characteristics

Add:

10.2.4 STATIC BEND TEST

10.2.4.1 Principle

This test determines the suitability of the cable for installation in severe conditions simulated by subjecting the cable to a single bend test.

10.2.4.2 Preparation of the test specimen

Select a portion of at least 20 m from the running end of finished cable to be subjected to test.

10.2.4.3 Procedure

10.2.4.3.1 A few metres from the free end, the cable shall be bent 180° around a mandrel of diameter stated in the relevant cable specification.

10.2.4.3.2 The cable shall be tested in accordance with clause 11.9 of this standard.

10.2.4.4 Requirements

The electrical characteristics shall be in accordance with the value stated in the relevant cable specification. There shall be no cracks or breaks in the dielectric, metallic elements, or sheath.

Replace "10.3 Tensile strength test - Under consideration" by:

10.3 Tensile strength test

10.3.1 Principle

This test determines the suitability of the cable to withstand, during installation in duct, the maximum permissible load stated in the relevant cable specification.

This test applies only to distribution and trunk cables without messenger.

10.3.2 Preparation of the test specimen

Select a portion of at least 20 m from the running end of the finished cable to be subjected to test.

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10.3.3 Procedure (standards.iteh.ai)

10.3.3.1. At the free end, the cable shall be fitted with a suitable fitting which allows an even distribution of the load between the inner and outer conductors.

10.3.3.2 A few metres from the free end, the cable shall be bent 90° around a mandrel of diameter stated in the relevant cable specification for multiple bending.

10.3.3.3 The load shall be applied and increased until the value stated in the relevant cable specification is reached. This value shall be held for 15 minutes.

10.3.3.4 At the free end, a cable portion of 30 cm shall be cut and the cable shall be tested in accordance with clause 11.9 of this standard.

10.3.3.5 The cable shall be straightened and the part subjected to bend shall be examined using normal or corrected vision.

10.3.4 Requirements

The electrical characteristics shall be in accordance with the value stated in the relevant cable specification. There shall be no cracks or breaks in the dielectric, metallic elements, or sheath.