SLOVENSKI STANDARD

SIST EN 50117-2-3:2005/A1:2008

01-april-2008

Koaksialni kabli - 2-3. del: Podroļ na specifikacija za kable v kabelskih razdelilnih omreģjih - Razdelilni in povezovalni kabli za sisteme, ki delujejo v obmoļ ju 5 MHz do 1.000 MHz

Coaxial cables - Part 2-3: Sectional specification for cables used in cabled distribution networks - Distribution and trunk cables for systems operating at 5 MHz - 1 000 MHz

Koaxialkabel - Teil 2-3: Rahmenspezifikation für Kabel für Kabelverteilanlagen - Verteiler und Linienkabel für Systeme im Bereich von 5 MHz - 1 000 MHz

Câbles coaxiaux - Partie 2-3: Spécification intermédiaire pour câbles utilisés dans les réseaux de distribution câblés - Câbles de distribution et câbles principaux des systèmes fonctionnant à 5 MHz - 1 000 MHz

Ta slovenski standard je istoveten z: **EN 50117-2-3:2004/A1:2008**

ICS:

33.120.10

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EUROPEAN STANDARD

NORME EUROPÉENNE

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EN 50117-2-3/A1

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ICS 33.120.10

English version

Coaxial cables - Part 2-3: Sectional specification for cables used in cabled distribution networks - Distribution and trunk cables for systems operating at 5 MHz - 1 000 MHz

Câbles coaxiaux -
Partie 2-3: Spécification intermédiaire pour câbles utilisés dans les réseaux de distribution câblés -
Câbles de distribution et câbles principaux des systèmes fonctionnant à 5 MHz - 1 000 MHz

Koaxialkabel -
Teil 2-3: Rahmenspezifikation für Kabel für Kabelverteilanlagen -
Verteiler und Linienkabel für Systeme im Bereich von 5 MHz - 1 000 MHz

This amendment A1 modifies the European Standard EN 50117-2-3:2004; it was approved by CENELEC on 2007-12-01. 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.

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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

Ref. No. EN 50117-2-3:2004/A1:2008 E

Foreword

This amendment to the European Standard EN 50117-2-3:2004 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 A1 to EN 50117-2-3:2004 on 2007-12-01.

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)	2008-12-01
– latest date by which the national standards conflicting with the amendment have to be withdrawn	(dow)	2010-12-01

3 Definitions

Add after the first paragraph:

The definition of a distribution and trunk coaxial cable is one of use or intended use and application within the network rather than by specific constructional requirements of the cable itself.

3.1
distribution and trunk cable
coaxial cable which is used to connect from:
a) head end to head end
b) head end to amplifier
c) amplifier to amplifier
d) amplifier to splitter or directional coupler
e) splitter, directional coupler or subscriber tap to splitter, directional coupler or subscriber tap

NOTE For systems which use an integrated directional coupler and system outlet (looped system outlet), the interconnection cables shall be defined as trunk and distribution cables.

4 Requirements for cable construction

4.14 Cable identification

4.14.1 Sheath marking

Add the following note:

NOTE The Construction Products Directive (CPD) will define classes for the fire performance of cables. As long as the CPD is under consideration and fire performance classes (Euroclasses) are not defined, sheathmarking with Euroclass is not required.

Table 2 – High-frequency electrical and transmission measurements

Replace the rows for 5.1.2.6 and 5.1.2.7 by the following and **delete** footnote [d]:

5.1.2.6	Transfer impedance	Screening Class A+: ≤ 2,5 mΩ/m from 5 MHz to 30 MHz; Screening Class A++: ≤ 0,9 mΩ/m from 5 MHz to 30 MHz. Test procedure according to EN 50289-1-6, triaxial method, after completion of the flexure test according to 5.2.9 of this standard.
5.1.2.7	Screening attenuation	Screening Class A+: ≥ 95 dB from 30 MHz to 1 000 MHz; Screening Class A++: ≥ 105 dB from 30 MHz to 1 000 MHz. Test procedure according to EN 50289-1-6, triaxial method, after completion of the flexure test according to 5.2.9 of this standard.

Add the following Clause 6:

6 Cable types

Table 6 indicates typical cable properties for informative purposes for cables with copper inner conductors.

Alternative conductor materials, dimensions and characteristics shall be defined in the detail specification.

Table 6 - Distribution and trunk cables - Dimensions and ratings

Characteristic/Type	13 A+/A++	10 A+/A++	9 A+/A++	6,2 A+/A++	6,1 A+/A++	3 A+/A++
Nom. diameter [mm]						
over dielectric	7,2	6,9	9	15	13,5	20
outer diameter	10,5	10,5	12,5	20	17,5	25
Attenuation max. [dB/100 m]						
@ 200 MHz	6	4,8	4,5	3	3	2
@ 800 MHz	13	10	9	6	6	4
Attenuation coeff [a]						
a	0,39	0,31	0,29	0,18	0,18	0,12
b	0,001 8	0,000 7	0,000 7	0,000 7	0,000 7	0,000 6
c	0,25	0,15	0,15	0,15	0,10	0,10
Screening class	A+/A++	A+/A++	A+/A++	A+/A++	A+/A++	A+/A++
Max. D.C. current [b] [A]	13	14,5	20	20	30	66
Euroclass ???						

[a] a(f)/[dB/100 m] = a*√f + b*f +c.

[b] Calculated value for underground installation.