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?cU\_g]Ub]\_UV]!'&)"XY.'DcXfc bUgdYWZ\_UV]UnU\_UV]j'\_UV]g\_] fUnXY]b]  
ca fYy]! 'Ni bUb]df]`1 b]\_UV]nUg]ghYa YZ\_]XYi Yc]j'cVa c 1') 'A<n'Xc' '\$\$\$  
A<n

Coaxial cables - Part 2-5: Sectional specification for cables used in cabled distribution networks - Outdoor drop cables for systems operating at 5 MHz - 3 000 MHz

Koaxialkabel - Teil 2-5: Rahmenspezifikation für Kabel für Kabelverteilanlagen - Aussenkabel im Bereich von 5 MHz - 3 000 MHz

Câbles coaxiaux - Partie 2-5: Spécification intermédiaire pour câbles utilisés dans les réseaux de distribution par câbles - Câbles de raccordement a usage extérieur pour les systemes fonctionnant a 5 MHz - 3 000 MHz

**Ta slovenski standard je istoveten z: EN 50117-2-5:2004/A1:2008**

**ICS:**

33.120.10

**SIST EN 50117-2-5:2005/A1:2008**

**en,fr,de**

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SIST EN 50117-2-5:2005/A1:2008

<https://standards.iteh.ai/catalog/standards/sist/63f264b5-7594-48d6-97b5-44d5d2d9ed76/sist-en-50117-2-5-2005-a1-2008>

**Coaxial cables -  
Part 2-5: Sectional specification for cables  
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für Kabel für Kabelverteilanlagen -  
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This amendment A1 modifies the European Standard EN 50117-2-5:2004; 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**

## Foreword

This amendment to the European Standard EN 50117-2-5:2004 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 50117-2-5:2004 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
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### 3 Definitions

Add after the first paragraph:

The definition of a drop 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

##### drop cable

coaxial cable which is used to connect from

- a) subscriber tap or a directional coupler to a system outlet,
- b) subscriber tap to a subscriber splitter,
- c) subscriber splitter to a system outlet

### 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, sheath marking 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 and the footnotes by:

5.1.2.6	Transfer impedance	<p>Screening Class A: <math>\leq 5 \text{ m}\Omega/\text{m}</math> from 5 MHz to 30 MHz;                      Screening Class A+: <math>\leq 2,5 \text{ m}\Omega/\text{m}</math> from 5 MHz to 30 MHz;                      Screening Class B: <math>\leq 15 \text{ m}\Omega/\text{m}</math> from 5 MHz to 30 MHz;                      Screening Class C: <math>\leq 50 \text{ m}\Omega/\text{m}</math> from 5 MHz to 30 MHz<sup>d</sup>.</p> <p>Test procedure according to EN 50289-1-6, triaxial method, after completion of the flexure test according to 5.2.9 of this standard.</p>
5.1.2.7	Screening attenuation	<p>Screening Class A:  <math>\geq 85 \text{ dB}</math> from 30 MHz to 1 000 MHz;  <math>\geq 75 \text{ dB}</math> from 1 000 MHz to 2 000 MHz;  <math>\geq 65 \text{ dB}</math> from 2 000 MHz to 3 000 MHz.</p> <p>Screening Class A+:  <math>\geq 95 \text{ dB}</math> from 30 MHz to 1 000 MHz;  <math>\geq 85 \text{ dB}</math> from 1 000 MHz to 2 000 MHz;  <math>\geq 75 \text{ dB}</math> from 2 000 MHz to 3 000 MHz.</p> <p>Screening Class B:  <math>\geq 75 \text{ dB}</math> from 30 MHz to 1 000 MHz;  <math>\geq 65 \text{ dB}</math> from 1 000 MHz to 2 000 MHz;  <math>\geq 55 \text{ dB}</math> from 2 000 MHz to 3 000 MHz.</p> <p>Screening Class C:  <math>\geq 75 \text{ dB}</math> from 30 MHz to 1 000 MHz;  <math>\geq 65 \text{ dB}</math> from 1 000 MHz to 2 000 MHz;  <math>\geq 55 \text{ dB}</math> from 2 000 MHz to 3 000 MHz<sup>d</sup>.</p> <p>Test procedure according to EN 50289-1-6, triaxial method, after completion of the flexure test according to 5.2.9 of this standard.</p>
<p><sup>a</sup> In each frequency band, 3 peak return loss values up to 4 dB lower than the stated specified limit are permissible.</p> <p><sup>b</sup> A more detailed description of the subject is given in 46XA/Sec104/INF and 46XA/Sec105/INF.</p> <p><sup>c</sup> An EN test procedure is under consideration by CLC/SC 46XA.</p> <p><sup>d</sup> Screening class C cables are not intended for use in systems operating at frequencies <math>\leq 30 \text{ MHz}</math>.</p>		

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 - Drop cable types - Dimensions and ratings**

Characteristic/Type	45 A+/A/B	29 A+/A/B	23 A+/A/B	18 A+/A/B	13 A+/A/B
<b>Nom. diameter</b> [mm]					
over dielectric	2,0	3,0	3,7	4,8	7,2
outer diameter	4,0	4,5	6,0	7,0	10,5
<b>Attenuation max.</b> [dB/100 m]					
@ 200 MHz	21	14	12	9	6
@ 800 MHz	45	29	23	18	13
@ 2 400 MHz	82	52	45	32	25
<b>Attenuation coeff.</b> <sup>a</sup>					
a	1,36	0,94	0,77	0,54	0,39
b	0,006 1	0,002 2	0,002 1	0,002 0	0,001 8
c	0,50	0,50	0,40	0,40	0,30
<b>Screening class</b>	A+/A/B	A+/A/B	A+/A/B	A+/A/B	A+/A/B
<b>Max. D.C. current</b> <sup>b</sup> [A]	0,8	2,1	3,4	6,1	13,2
<b>Euroclass ???</b>					
<sup>a</sup>	a(f)/[dB/100 m] = a*√f + b*f + c.				
<sup>b</sup>	Calculated value for aerial installation.				