

<b>STN</b>	<b>Koaxiálne káble</b> <b>Časť 10-2: Rámcová špecifikácia koaxiálnych káblov na analógový a digitálny prenos signálu</b> <b>Káble na vonkajšie rozvody pre systémy pracujúce v rozsahu od 5 MHz do 3 000 MHz</b>	<b>STN</b> <b>EN 50117-10-2</b>  34 7740
------------	--	---

Coaxial cables - Part 10-2: Sectional specification for coaxial cables for analogue and digital signal transmission - Outdoor drop cables for systems operating at 5 MHz - 3 000 MHz

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/19

Obsahuje: EN 50117-10-2:2019

Oznámením tejto normy sa od 29.03.2022 ruší  
STN EN 50117-2-5 (34 7740) z apríla 2005

**128910**

EUROPEAN STANDARD

**EN 50117-10-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS 33.120.10

Supersedes EN 50117-2-5:2004

English Version

## Coaxial cables - Part 10-2: Sectional specification for coaxial cables for analogue and digital signal transmission - Outdoor drop cables for systems operating at 5 MHz - 3 000 MHz

Câbles coaxiaux - Partie 10-2: Spécification intermédiaire pour câbles coaxiaux pour la transmission de signaux analogiques et numériques - Câbles de raccordement à usage extérieur pour les systèmes fonctionnant entre 5 MHz et 3 000 MHz

Koaxialkabel - Teil 10-2: Rahmenspezifikation für Koaxialkabel für analoge und digitale Signalübertragung - Aussenkabel für Systeme im Bereich von 5 MHz - 3 000 MHz

This European Standard was approved by CENELEC on 2018-10-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN 50117-10-2:2019 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>1 Scope</b> .....	<b>4</b>
<b>2 Normative references</b> .....	<b>4</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 Requirements for cable construction and design</b> .....	<b>5</b>
4.1 General .....	5
4.2 Inner conductor .....	6
4.3 Dielectric .....	6
4.4 Outer conductor or screen.....	6
4.5 Filling compounds .....	6
4.6 Moisture barriers .....	6
4.7 Wrapping layers .....	6
4.8 Sheath.....	7
4.9 Metallic protection .....	7
4.10 Cable integral suspension strand (Messenger wire) .....	7
4.11 Oversheath .....	7
4.12 Fauna proofing .....	7
4.13 Chemical and/or environmental proofing .....	7
4.14 Cable identification .....	7
4.14.1 General .....	7
4.14.2 Sheath marking .....	7
4.15 Labelling.....	8
<b>5 Tests for completed cables</b> .....	<b>8</b>
5.1 General .....	8
5.2 Electrical parameters and requirements .....	8
5.2.1 Low-frequency and DC electrical parameters and requirements .....	8
5.2.2 High-frequency electrical and transmission parameters and requirements .....	9
5.3 Mechanical parameters and requirements.....	10
5.4 Environmental parameters and requirements .....	12
5.5 Fire performance test methods.....	13
<b>Annex A (informative) Cable types</b> .....	<b>14</b>
<b>Bibliography</b> .....	<b>15</b>

## European foreword

This document (EN 50117-10-2:2019) has been prepared by CLC/SC 46XA "Coaxial cables" of CLC/TC 46X "Communication cables".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2019-09-29
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-03-29

This document supersedes EN 50117-2-5:2004.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

All materials used for cables according to this standard should fulfil the requirements of the current REACH Regulation and ROHS Directives.

**EN 50117-10-2:2019 (E)****1 Scope**

This part of EN 50117 which is a sectional specification applies to coaxial outdoor drop cables for analogue and digital one and two way signal transmission, e.g. for cable networks for television signals, sound signals and interactive services in accordance with EN 60728-1, EN 60728-1-1, EN 60728-101, EN 60728-10, EN 50173-1 and EN 50173-4. This includes also the transmission of BCT signals provided by a CATV, MATV or SMATV cable network.

The purpose of this European Standard is to specify the applicable test methods and requirements for the electrical, mechanical and environmental characteristics and for fire performance of the cables.

**2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50117-1:2019, *Coaxial cables - Part 1: Generic specification*

EN 50173-1, *Information technology - Generic cabling systems - Part 1: General requirements*

EN 50173-4, *Information technology - Generic cabling systems - Part 4: Homes*

EN 50289-3-9:2001, *Communication cables - Specifications for test methods - Part 3-9: Mechanical test methods - Bending tests*

EN 50290-1-2:2004, *Communication cables - Part 1-2: Definitions*

EN 50290-2-1:2005, *Communication cables - Part 2-1: Common design rules and construction*

EN 50290-2-22, *Communication cables - Part 2-22: Common design rules and construction - PVC sheathing compounds*

EN 50290-2-27, *Communication cables - Part 2-27: Common design rules and construction - Halogen free flame retardant thermoplastic sheathing compounds*

EN 50290-2-37, *Communication cables - Part 2-37: Common design rules and construction - Polyethylene insulation for coaxial cables*

EN 50290-2-38, *Communication cables - Part 2-38: Common design rules and construction - Polypropylene insulation for coaxial cables*

EN 50290-4-1:2014, *Communication cables - Part 4-1: General considerations for the use of cables - Environmental conditions and safety aspects*

EN 50290-4-2:2014, *Communication cables - Part 4-2: General considerations for the use of cables - Guide to use*

EN 60728-1, *Cable networks for television signals, sound signals and interactive services - Part 1: System performance of forward paths (IEC 60728-1)*

EN 60728-1-1, *Cable networks for television signals, sound signals and interactive services - Part 1-1: RF cabling for two way home networks (IEC 60728-1-1)*

EN 60728-10, *Cable networks for television signals, sound signals and interactive services - Part 10: System performance for return paths (IEC 60728-10)*

EN 60728-101, *Cable networks for television signals, sound signals and interactive services - Part 101: System performance of forward paths loaded with digital channels only (IEC 60728-101)*

EN 62153-1-1, *Metallic communication cables test methods - Part 1-1: Electrical - Measurement of the pulse/step return loss in the frequency domain using the Inverse Discrete Fourier Transformation (IDFT) (IEC 62153-1-1)*

IEC 61196-1-112, *Coaxial communication cables – Part 1-115: Electrical test methods – Test for return loss (uniformity of impedance)*

IEC 61196-1-115, *Coaxial communication cables – Part 1-115: Electrical test methods – Test for regularity of impedance (pulse/step function return loss)*

IEC 62153-4-3, *Metallic communication cable test methods – Part 4-3: Electromagnetic compatibility (EMC) – Surface transfer impedance – Triaxial method*

IEC 62153-4-4, *Metallic communication cable test methods – Part 4-4: Electromagnetic compatibility (EMC) – Test method for measuring of the screening attenuation as up to and above 3 GHz, triaxial method*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**